

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531430

Luminaire Tested: **GALN-SA6D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32517 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

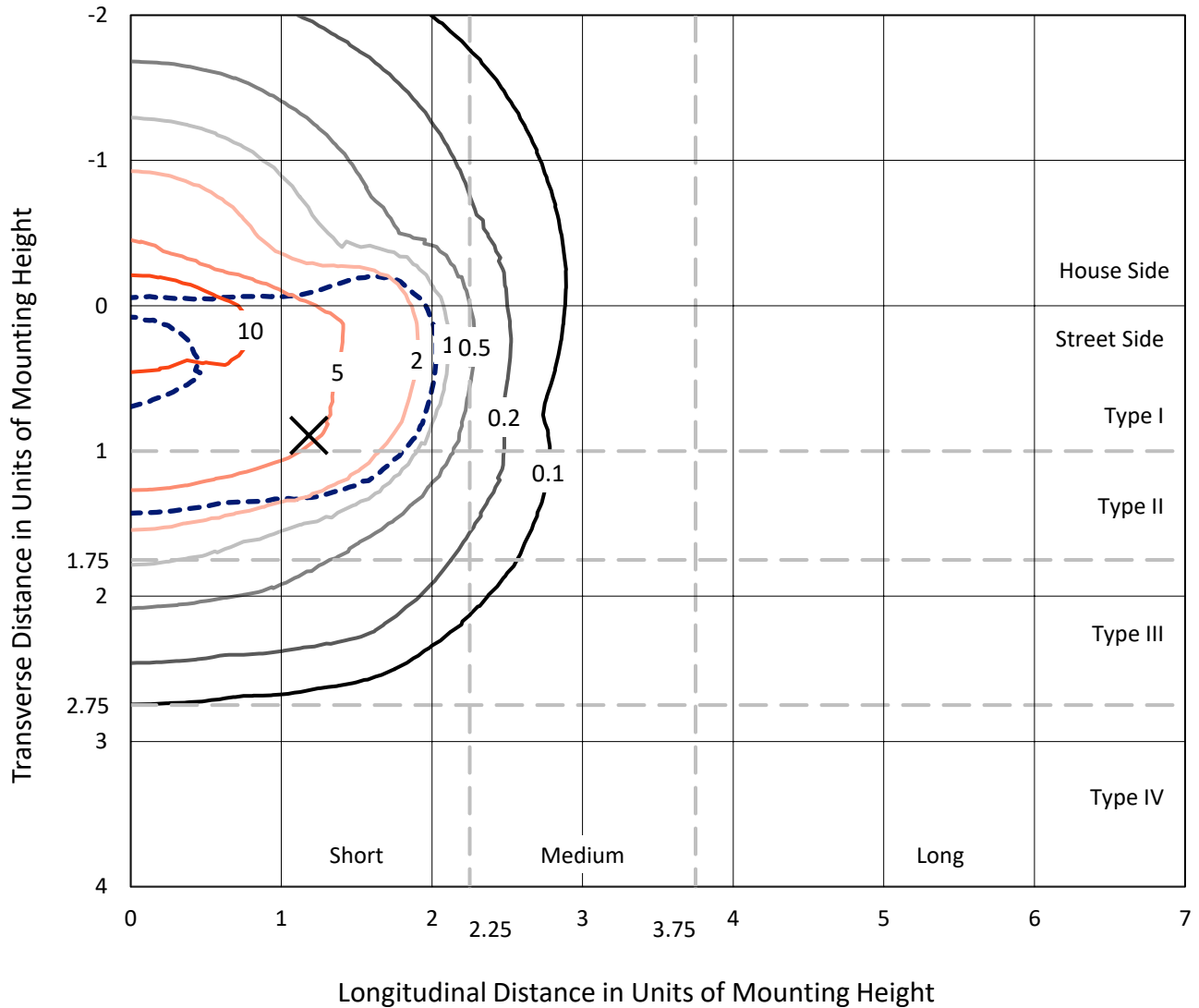
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

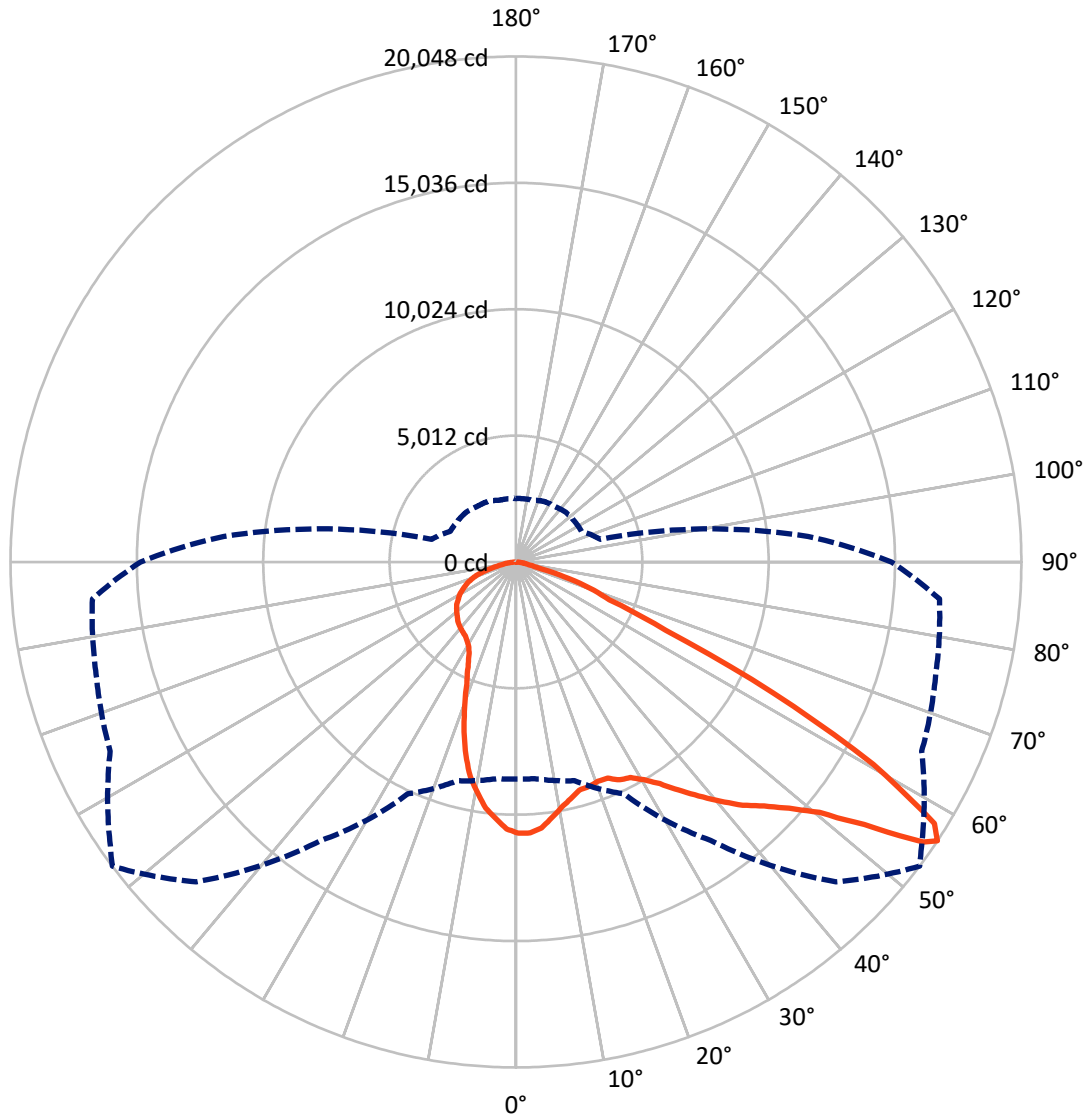
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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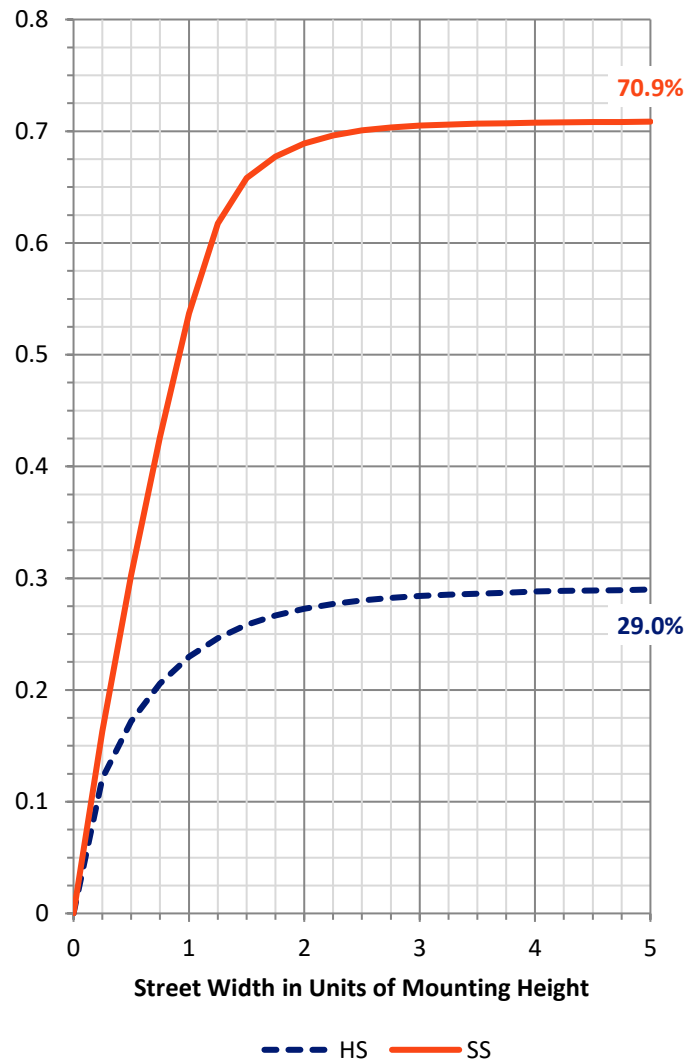
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9489.2	0.0	9489.2
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	23027.8	0.0	23027.8
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	32517.0	0.0	32517.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	952.4	2.9
10°-20°	2378.6	7.3
20°-30°	3507.5	10.8
30°-40°	5011.5	15.4
40°-50°	6897.7	21.2
50°-60°	8151.2	25.1
60°-70°	4344.1	13.4
70°-80°	1102.1	3.4
80°-90°	171.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32517.0	100.0
0°-180°	32517.0	100.0



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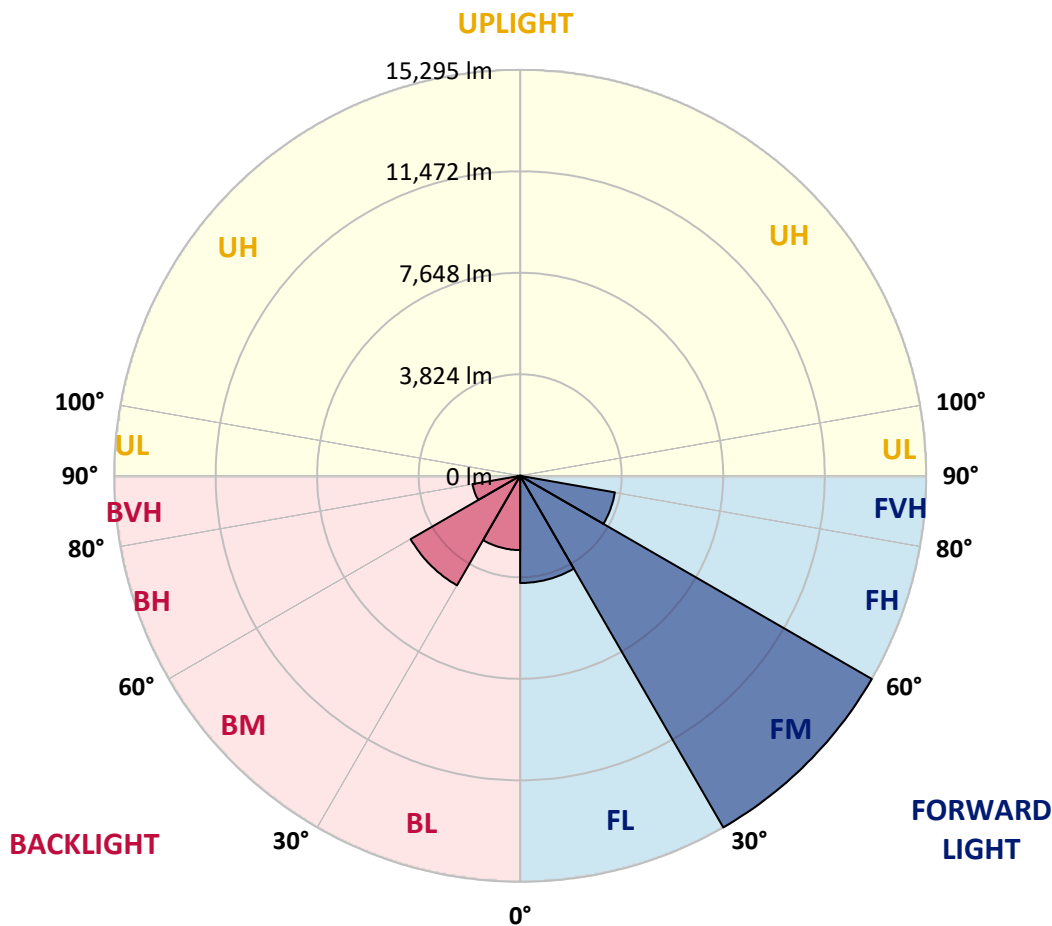
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4039.8	12.4			
FM (30°-60°)	15295.4	47.0			
FH (60°-80°)	3623.6	11.1			G2/5000
FVH (80°-90°)	69.1	0.2			G1/100
BL (0°-30°)	2798.7	8.6	B4/5000		
BM (30°-60°)	4765.1	14.7	B3/5000		
BH (60°-80°)	1822.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	102.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9
2.5°	10624.4	10532.7	10586.9	10566.0	10737.0	10787.1	10762.1	10782.9	10878.9	10833.0	10737.0
5°	9927.8	10057.1	10082.1	10144.7	10244.8	10440.9	10595.2	10636.9	10682.8	10895.6	10874.7
7.5°	9293.8	9381.4	9335.5	9519.0	9735.9	10052.9	10240.7	10274.0	10695.3	10812.1	10899.7
10°	8893.3	8805.7	9014.3	9064.3	9310.4	9673.4	9898.6	10036.3	10420.0	10883.0	10937.3
12.5°	8522.1	8492.9	8618.0	8759.8	9035.1	9410.6	9640.0	9694.2	10286.5	10774.6	11029.0
15°	8246.8	8213.4	8338.5	8442.8	8764.0	9097.7	9389.7	9544.0	10140.5	10712.0	10949.8
17.5°	8029.8	8025.7	8096.6	8284.3	8613.8	8893.3	9364.7	9373.0	10065.5	10808.0	11016.5
20°	8017.3	8013.2	8025.7	8234.2	8534.6	8876.6	9285.4	9360.5	10065.5	10741.2	11020.7
22.5°	8121.6	8054.9	8130.0	8263.4	8480.3	8905.8	9314.6	9481.5	10307.4	11070.8	11208.4
25°	8288.5	8305.2	8346.9	8392.8	8517.9	8972.6	9573.2	9710.9	10591.1	11354.4	11467.0
27.5°	8593.0	8584.6	8601.3	8626.3	8734.8	9035.1	9677.5	10032.1	11183.4	11859.1	11746.5
30°	9039.3	9010.1	9076.9	9164.5	9064.3	9235.4	10023.7	10290.7	11734.0	12368.0	12059.4
32.5°	9443.9	9552.4	9677.5	9715.1	9594.1	9627.5	10482.6	10753.7	12192.8	12993.7	12443.1
35°	9948.7	10036.3	10203.1	10319.9	10299.1	10198.9	11108.3	11467.0	12856.1	13452.6	12847.8
37.5°	10440.9	10545.2	10820.5	11166.7	10974.8	10928.9	11775.7	12071.9	13060.5	13698.7	13143.9
40°	11233.4	11229.3	11704.8	11884.2	12055.2	11975.9	12468.2	12568.3	13168.9	13644.5	13152.3
42.5°	12163.6	12105.3	12589.1	12868.6	13089.7	13098.0	13189.8	13156.4	13219.0	13369.2	13064.7
45°	13048.0	13173.1	13661.2	14161.7	14382.8	14407.8	13798.8	13736.2	13306.6	13289.9	12897.8
47.5°	14128.4	14157.6	14558.0	15217.1	15730.2	15555.0	14587.2	14449.5	13690.4	13819.7	13177.3
50°	14190.9	14407.8	14766.6	15542.4	17119.2	17073.3	15609.2	15350.6	14307.7	14570.5	13957.3
52.5°	12881.1	12831.1	13256.5	14524.6	17014.9	18583.4	17302.7	16685.4	15634.2	15434.0	15221.2
55°	9815.2	9932.0	10307.4	11588.0	14774.9	18604.2	19609.5	19104.8	17052.5	16710.4	16464.3
56°	8609.7	8626.3	8980.9	10148.9	13481.8	17941.0	20047.5	19638.7	17757.4	17236.0	16860.6
57.5°	7137.2	7041.2	7224.8	7863.0	11379.4	16539.4	19567.8	19968.2	18583.4	17803.3	17281.9
60°	5618.8	5597.9	5522.9	5639.7	7191.4	12459.8	16289.1	17190.1	18499.9	17269.4	16551.9
62.5°	4588.5	4484.2	4634.4	4801.2	4997.3	7729.5	11446.2	11975.9	14687.3	13786.3	12434.8
65°	3558.2	3508.1	3695.8	4238.1	4354.9	4909.7	6519.8	6928.6	8672.2	8517.9	7500.1
67.5°	2448.6	2456.9	2619.6	3445.5	4037.9	3987.8	3992.0	4204.7	4525.9	3362.1	2928.3
70°	1551.7	1547.6	1635.2	2219.2	3249.5	3282.9	3116.0	3053.4	2894.9	1752.0	1856.2
72.5°	997.0	967.8	1013.6	1226.4	1681.1	1943.8	2002.2	2039.8	1676.9	1376.5	1493.3
75°	563.1	533.9	517.2	571.5	663.2	767.5	842.6	867.6	971.9	1042.8	1105.4
77.5°	171.0	154.3	187.7	250.3	329.5	442.2	538.1	554.8	654.9	738.3	800.9
80°	75.1	83.4	116.8	166.9	233.6	312.9	379.6	404.6	471.4	533.9	550.6
82.5°	45.9	50.1	79.3	112.6	162.7	221.1	271.1	279.5	346.2	396.3	408.8
85°	16.7	20.9	41.7	66.7	104.3	141.8	141.8	154.3	141.8	141.8	154.3
87.5°	0.0	0.0	4.2	8.3	8.3	12.5	16.7	16.7	20.9	25.0	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9	10757.9
2.5°	10787.1	10766.2	10732.9	10611.9	10599.4	10561.9	10353.3	10319.9	10353.3	10253.2	10261.5
5°	10766.2	10828.8	10578.5	10457.6	10232.3	10069.6	9881.9	9786.0	9615.0	9506.5	9627.5
7.5°	10858.0	10833.0	10520.1	10257.3	9919.5	9506.5	9177.0	8989.3	8688.9	8605.5	8668.1
10°	10824.6	10691.2	10324.1	9977.9	9339.6	8976.7	8442.8	7925.6	7641.9	7495.9	7475.1
12.5°	10778.8	10741.2	10128.0	9531.5	8859.9	8096.6	7345.7	6857.7	6394.7	6194.5	6223.7
15°	10833.0	10516.0	9761.0	9005.9	8113.3	7112.1	6302.9	5673.0	5351.8	5222.5	5222.5
17.5°	10808.0	10407.5	9585.8	8417.8	7287.3	6102.7	5214.2	4834.6	4701.1	4701.1	4738.7
20°	10820.5	10478.4	9231.2	7829.6	6311.2	5139.1	4492.5	4354.9	4413.3	4434.1	4455.0
22.5°	10891.4	10244.8	8885.0	7183.1	5406.1	4396.6	4079.6	4083.7	4188.0	4300.7	4279.8
25°	10979.0	10153.1	8463.7	6540.7	4713.6	4033.7	3933.6	3921.1	4000.3	4058.7	4067.1
27.5°	10903.9	9994.5	8034.0	5739.8	4146.3	3791.8	3770.9	3779.2	3804.3	3921.1	3883.5
30°	11150.0	10040.4	7495.9	5068.2	3833.5	3712.5	3687.5	3675.0	3712.5	3745.9	3716.7
32.5°	11454.5	9877.8	7095.5	4421.6	3679.1	3654.1	3604.0	3587.4	3608.2	3574.8	3591.5
35°	11588.0	9848.6	6574.0	3958.6	3558.2	3537.3	3508.1	3503.9	3508.1	3478.9	3453.9
37.5°	11663.1	9986.2	5977.5	3745.9	3483.1	3503.9	3437.2	3428.8	3353.8	3370.4	3383.0
40°	11792.4	9773.5	5493.7	3541.5	3437.2	3395.5	3337.1	3324.6	3274.5	3245.3	3274.5
42.5°	11604.7	9710.9	5018.1	3453.9	3370.4	3324.6	3282.9	3211.9	3195.3	3170.2	3153.5
45°	11454.5	9352.2	4592.7	3345.4	3291.2	3266.2	3186.9	3111.8	3049.3	3074.3	3036.7
47.5°	11567.1	9227.0	4171.3	3253.7	3182.7	3153.5	3074.3	3015.9	2953.3	2924.1	2915.8
50°	12017.7	9460.6	3816.8	3186.9	3091.0	3074.3	2970.0	2903.3	2844.9	2824.0	2832.3
52.5°	13093.9	10098.8	3574.8	3049.3	3003.4	2928.3	2869.9	2786.5	2748.9	2682.2	2723.9
55°	14457.9	11137.5	3512.3	2919.9	2894.9	2828.2	2748.9	2686.3	2615.4	2561.2	2548.7
56°	14895.9	11633.9	3462.2	2869.9	2828.2	2790.6	2686.3	2648.8	2536.2	2523.7	2515.3
57.5°	15250.4	12071.9	3470.6	2773.9	2732.2	2698.9	2636.3	2544.5	2469.4	2423.6	2444.4
60°	14449.5	11300.2	3312.0	2627.9	2619.6	2557.0	2469.4	2427.7	2336.0	2281.7	2269.2
62.5°	10741.2	7671.1	2686.3	2440.2	2436.1	2369.3	2269.2	2223.3	2206.6	2131.6	2131.6
65°	6186.1	4809.6	2323.4	2285.9	2252.5	2185.8	2085.7	2048.1	2006.4	1981.4	1960.5
67.5°	2640.5	2494.5	2110.7	2106.5	2069.0	1985.6	1885.4	1827.1	1772.8	1722.8	1747.8
70°	1914.6	1943.8	1906.3	1885.4	1839.6	1735.3	1647.7	1576.8	1493.3	1460.0	1485.0
72.5°	1518.4	1580.9	1635.2	1639.3	1585.1	1464.1	1368.2	1272.3	1180.5	1134.6	1155.5
75°	1151.3	1193.0	1247.2	1259.7	1180.5	1097.1	1005.3	905.2	834.3	780.0	788.4
77.5°	830.1	821.8	871.8	863.5	825.9	767.5	684.1	592.3	513.1	463.0	467.2
80°	567.3	579.8	609.0	604.8	559.0	521.4	458.8	383.8	325.4	283.7	275.3
82.5°	396.3	417.1	442.2	421.3	383.8	346.2	300.3	246.1	200.2	166.9	158.5
85°	141.8	162.7	187.7	200.2	212.7	204.4	171.0	137.7	100.1	83.4	79.3
87.5°	29.2	33.4	37.5	37.5	37.5	33.4	29.2	29.2	25.0	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)