

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: P533130

Luminaire Tested: **GALN-SA8C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46473 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

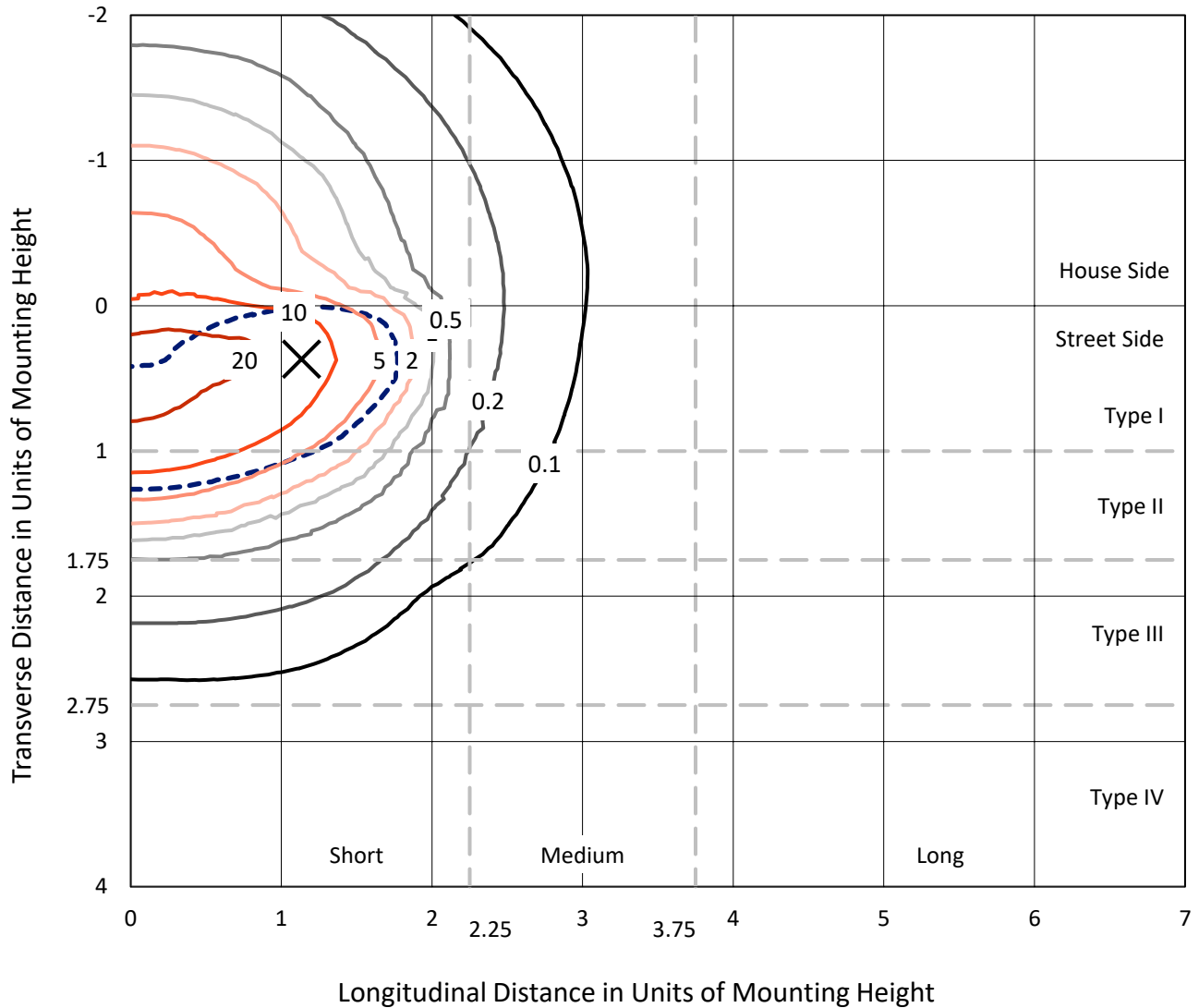
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

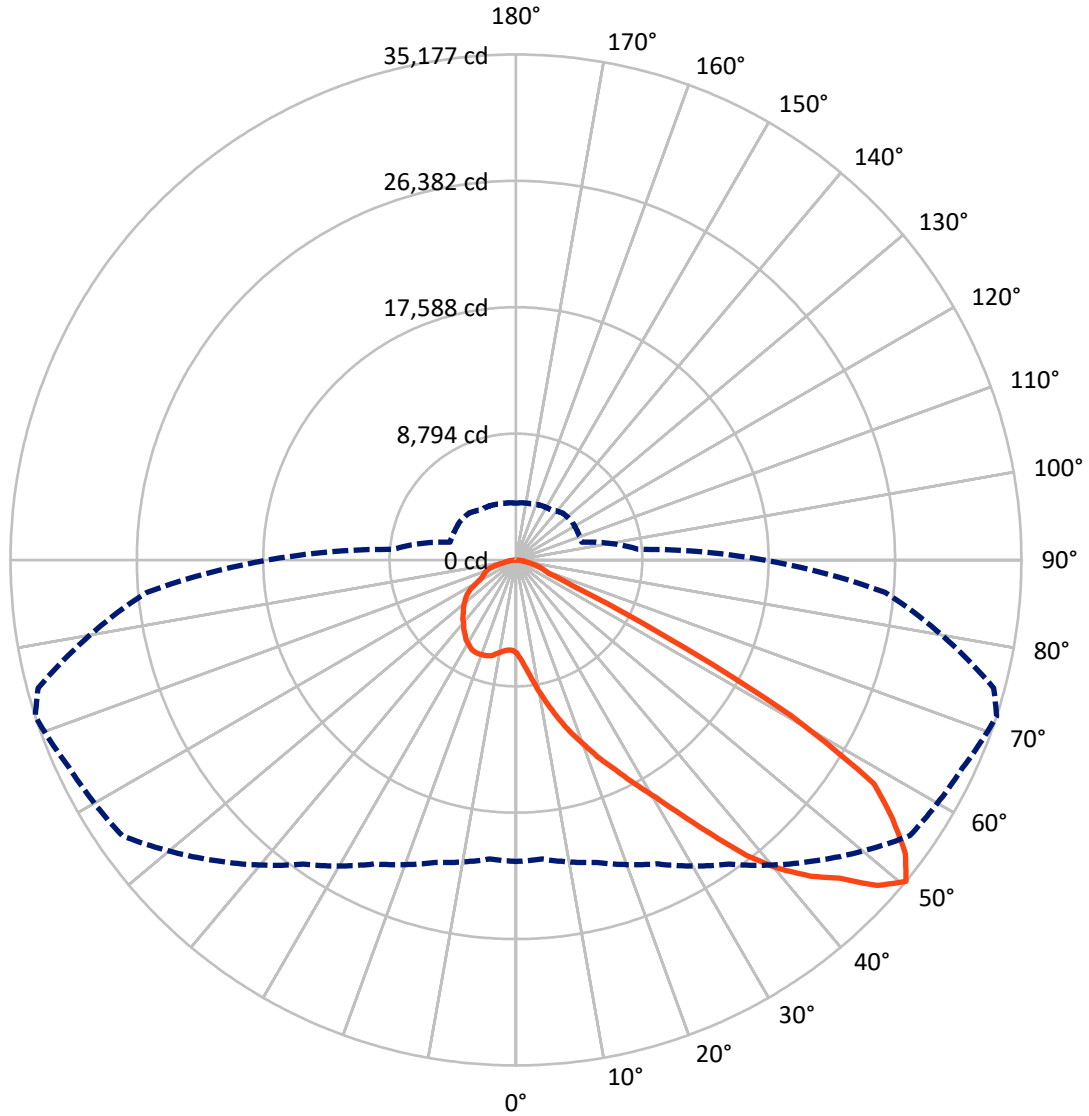
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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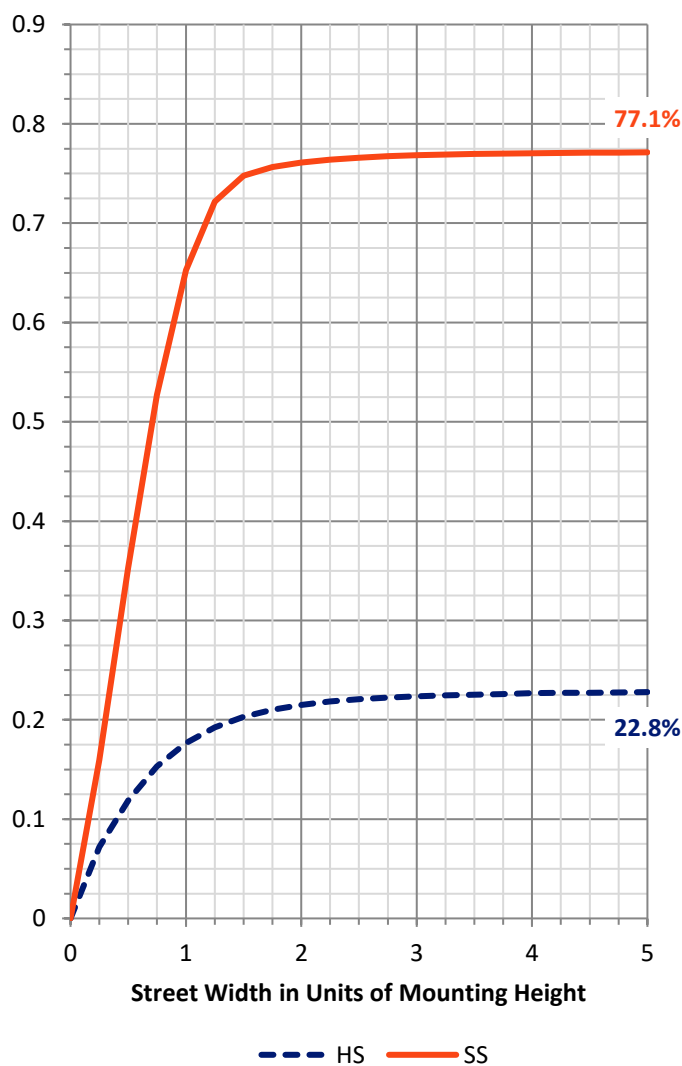
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10647.2	0.0	10647.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	35825.8	0.0	35825.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	46473.0	0.0	46473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	761.0	1.6
10°-20°	2844.8	6.1
20°-30°	5515.8	11.9
30°-40°	9137.8	19.7
40°-50°	12785.7	27.5
50°-60°	10786.4	23.2
60°-70°	3287.7	7.1
70°-80°	1153.4	2.5
80°-90°	200.5	0.4
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°	46473.0	100.0
0°-180°	46473.0	100.0

**Coefficient of Utilization**

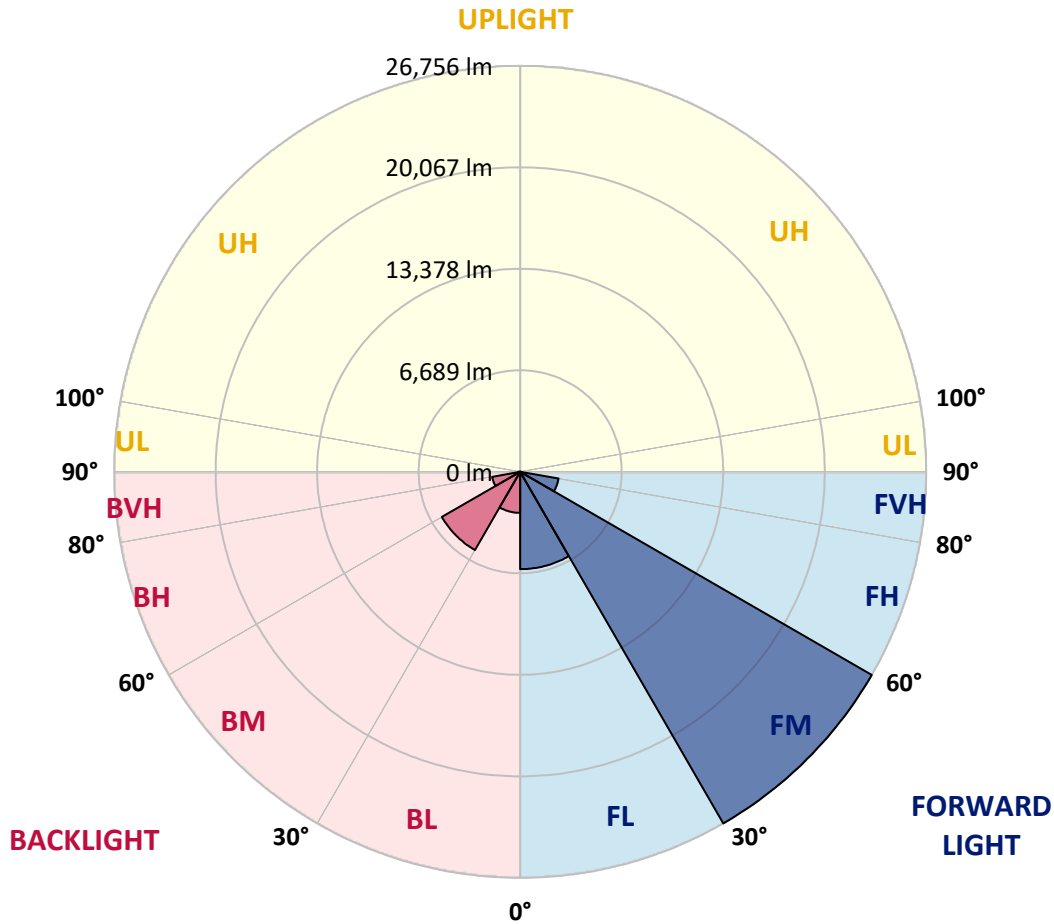


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6414.9	13.8			
FM (30°-60°)	26755.8	57.6			
FH (60°-80°)	2565.2	5.5			G2/5000
FVH (80°-90°)	89.8	0.2			G1/100
BL (0°-30°)	2706.6	5.8	B4/5000		
BM (30°-60°)	5954.1	12.8	B4/8500		
BH (60°-80°)	1875.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	110.7	0.2			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°	55°	65°	72°	75°	85°
0°	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4
2.5°	8321.1	8269.4	8114.1	8062.4	7878.3	7544.8	7429.8	7090.5	6946.7	6814.5	6659.2
5°	10523.6	10282.1	10264.8	9971.6	9546.0	9298.7	8562.7	8068.1	7613.8	7383.8	6958.2
7.5°	11926.8	11932.5	11932.5	11691.0	11351.7	10724.9	10063.6	9172.2	8487.9	8148.6	7424.0
10°	13260.9	13145.9	13082.6	13059.6	12829.6	12220.0	11512.7	10408.6	9471.3	9074.5	7774.8
12.5°	14204.0	14106.2	14250.0	14175.3	14008.5	13611.7	12944.6	11685.2	10512.1	9977.3	8338.4
15°	14652.6	14721.6	14836.6	15043.6	14968.8	14819.3	14083.2	12996.4	11633.5	11029.7	8838.7
17.5°	15342.6	15152.9	15290.9	15549.7	15756.7	15687.7	15267.9	13945.2	12743.4	12001.5	9511.5
20°	15825.7	15716.4	15785.4	16084.5	16239.7	16630.8	16412.2	15187.4	13807.2	13025.1	10305.1
22.5°	17205.8	17044.8	16820.5	16866.5	16924.0	17200.1	17251.8	16550.3	15043.6	14215.5	11058.4
25°	18908.0	18758.5	18494.0	18223.7	18056.9	18005.2	18183.4	17619.9	16228.2	15371.4	11869.3
27.5°	20782.7	20529.7	20362.9	19805.1	19356.6	19287.6	19201.3	18896.5	17631.4	16705.5	12783.6
30°	22605.7	22404.4	22180.1	21288.8	20823.0	20748.2	20322.7	20408.9	19155.3	18125.9	13818.7
32.5°	23985.8	24003.1	23491.2	22818.4	22381.4	21984.6	21829.3	22076.6	21110.5	20282.4	14974.6
35°	25101.4	25153.2	24664.4	24054.8	23583.3	23859.3	23790.3	23905.3	23445.2	22433.1	16320.2
37.5°	26188.3	25929.5	25406.2	25112.9	24865.6	25319.9	25906.5	26004.3	26090.5	24900.1	17884.4
40°	26366.6	26389.6	26084.8	26291.8	25981.3	26665.6	28028.5	27902.0	28252.8	27211.9	19580.8
42.5°	26113.5	26165.3	26286.0	26579.3	27326.9	28149.2	30173.5	29655.9	30081.4	29155.6	21231.3
45°	25699.5	25486.7	25636.2	26751.8	28045.7	29874.4	32134.4	31731.9	31593.9	30817.5	23198.0
47.5°	23721.3	23939.8	24405.6	25780.0	27723.7	30173.5	33526.1	33434.1	33848.1	33301.8	24986.4
50°	20978.2	20892.0	21789.1	23336.0	25843.2	29586.9	33451.3	34285.1	35176.5	34417.4	25785.7
52.5°	15710.7	16170.7	16941.3	18862.0	22438.9	26389.6	31818.1	33209.8	33934.4	33773.3	25141.7
55°	9931.3	10069.3	10535.1	12818.1	16038.5	21179.5	27275.2	30501.2	31795.1	32398.9	24549.4
57.5°	4824.8	4566.0	5135.3	6969.7	9264.2	14244.3	21035.7	26567.8	29379.9	30472.5	23261.2
60°	2518.8	2616.5	2840.8	3496.4	4790.3	7395.3	13111.4	17706.1	22001.8	23681.0	17631.4
62.5°	2087.5	2122.0	2271.5	2599.3	3185.8	4255.5	6693.7	8631.7	11219.4	12731.9	10029.1
65°	1771.2	1788.4	1949.5	2168.0	2541.8	2996.1	3444.6	3605.6	4364.7	4479.7	3565.4
67.5°	1477.9	1495.2	1667.7	1874.7	2116.2	2237.0	2352.0	2340.5	2426.8	2392.3	2386.5
70°	1138.6	1155.9	1334.1	1552.7	1673.4	1604.4	1961.0	2041.5	2076.0	2104.7	2150.7
72.5°	822.3	856.8	994.9	1150.1	1086.9	1247.9	1615.9	1736.7	1782.7	1799.9	1857.4
75°	598.1	609.6	644.1	598.1	690.1	868.3	1138.6	1288.1	1345.6	1362.9	1449.2
77.5°	264.5	270.3	276.0	345.0	442.8	540.6	678.6	799.3	879.8	902.8	925.8
80°	138.0	143.8	178.3	235.8	316.3	396.8	494.6	563.6	615.3	621.1	644.1
82.5°	86.3	92.0	126.5	166.8	224.3	293.3	362.3	419.8	460.0	465.8	471.6
85°	40.3	51.8	74.8	103.5	149.5	189.8	195.5	166.8	178.3	184.0	172.5
87.5°	11.5	17.3	23.0	17.3	23.0	23.0	28.8	34.5	34.5	34.5	40.3
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°	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4	6469.4
2.5°	6572.9	6521.2	6319.9	6245.2	6049.6	6084.1	5980.6	5974.9	5951.9	5946.1	5940.4
5°	6734.0	6572.9	6331.4	6147.4	6038.1	6026.6	5951.9	5951.9	5974.9	5992.1	5951.9
7.5°	6998.5	6814.5	6406.2	6233.7	6135.9	6118.7	6066.9	6026.6	6078.4	6061.1	6015.1
10°	7303.3	6981.2	6549.9	6400.4	6239.4	6199.2	6199.2	6216.4	6130.2	6158.9	6112.9
12.5°	7642.6	7211.3	6734.0	6561.4	6371.7	6348.7	6337.2	6210.7	6256.7	6233.7	6118.7
15°	8073.9	7475.8	6969.7	6676.5	6515.4	6411.9	6262.4	6239.4	6210.7	6153.2	6101.4
17.5°	8539.7	7763.3	7079.0	6711.0	6469.4	6394.7	6279.7	6158.9	6072.6	6084.1	6043.9
20°	8936.5	8027.9	7119.3	6745.5	6434.9	6291.2	6112.9	6038.1	5946.1	5940.4	5934.6
22.5°	9408.0	8384.4	7176.8	6653.5	6331.4	6181.9	6061.1	5928.9	5865.6	5785.1	5825.4
25°	9971.6	8522.4	7188.3	6601.7	6256.7	5992.1	5928.9	5785.1	5762.1	5647.1	5670.1
27.5°	10379.9	8597.2	7096.3	6440.7	6084.1	5882.9	5767.9	5664.4	5624.1	5537.8	5514.8
30°	10926.2	8712.2	6900.7	6239.4	5911.6	5687.4	5618.3	5595.3	5480.3	5388.3	5376.8
32.5°	11547.2	8786.9	6774.2	6032.4	5733.4	5560.8	5595.3	5486.1	5342.3	5261.8	5238.8
35°	12041.8	8815.7	6457.9	5796.6	5612.6	5503.3	5463.1	5440.1	5233.1	5158.3	5100.8
37.5°	12795.1	8752.4	6193.4	5629.8	5480.3	5440.1	5405.6	5250.3	5014.5	4905.3	4824.8
40°	13675.0	8735.2	5854.1	5394.1	5353.8	5399.8	5296.3	5054.8	4727.0	4606.2	4548.7
42.5°	14520.3	8855.9	5641.3	5267.6	5215.8	5233.1	5089.3	4727.0	4566.0	4497.0	4405.0
45°	15934.9	9109.0	5290.6	5072.0	5049.0	5037.5	4865.0	4485.5	4393.5	4307.2	4290.0
47.5°	17211.6	8942.2	5066.3	4870.8	4893.8	4830.5	4462.5	4341.7	4238.2	4151.9	4123.2
50°	17286.3	8545.4	4750.0	4715.5	4721.3	4612.0	4261.2	4180.7	4048.4	3990.9	3950.7
52.5°	16895.3	7895.6	4456.7	4468.2	4485.5	4307.2	4013.9	3956.4	3847.2	3766.7	3743.6
55°	15796.9	6883.5	4169.2	4215.2	4261.2	3921.9	3829.9	3686.1	3599.9	3484.9	3490.6
57.5°	13916.5	5543.6	3766.7	3841.4	3939.2	3565.4	3496.4	3318.1	3191.6	3099.6	3088.1
60°	9327.5	3944.9	3162.8	3191.6	3410.1	3260.6	3254.8	3076.6	2904.1	2823.6	2777.5
62.5°	5503.3	3013.3	2731.5	2702.8	2697.0	2783.3	2927.1	2863.8	2639.5	2484.3	2530.3
65°	2881.1	2605.0	2541.8	2444.0	2386.5	2363.5	2472.8	2501.5	2352.0	2185.2	2173.7
67.5°	2421.0	2421.0	2369.3	2334.7	2254.2	2156.5	2087.5	1995.5	1972.5	1926.5	1868.9
70°	2202.5	2260.0	2242.7	2162.2	2093.2	1984.0	1805.7	1656.2	1512.4	1460.7	1495.2
72.5°	1920.7	1978.2	1978.2	1938.0	1845.9	1679.2	1506.7	1334.1	1213.4	1121.4	1109.9
75°	1477.9	1506.7	1575.7	1529.7	1408.9	1305.4	1127.1	948.9	833.8	747.6	730.3
77.5°	943.1	989.1	989.1	983.4	897.1	799.3	684.3	557.8	471.6	408.3	391.0
80°	626.8	655.6	678.6	655.6	598.1	523.3	437.0	350.8	287.5	235.8	224.3
82.5°	460.0	494.6	511.8	488.8	431.3	373.8	310.5	247.3	184.0	143.8	132.3
85°	178.3	184.0	207.0	247.3	241.5	235.8	189.8	138.0	103.5	74.8	69.0
87.5°	46.0	40.3	46.0	46.0	40.3	34.5	34.5	34.5	34.5	17.3	23.0
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)