

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: P531442

Luminaire Tested: **GALN-SA6D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32709 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

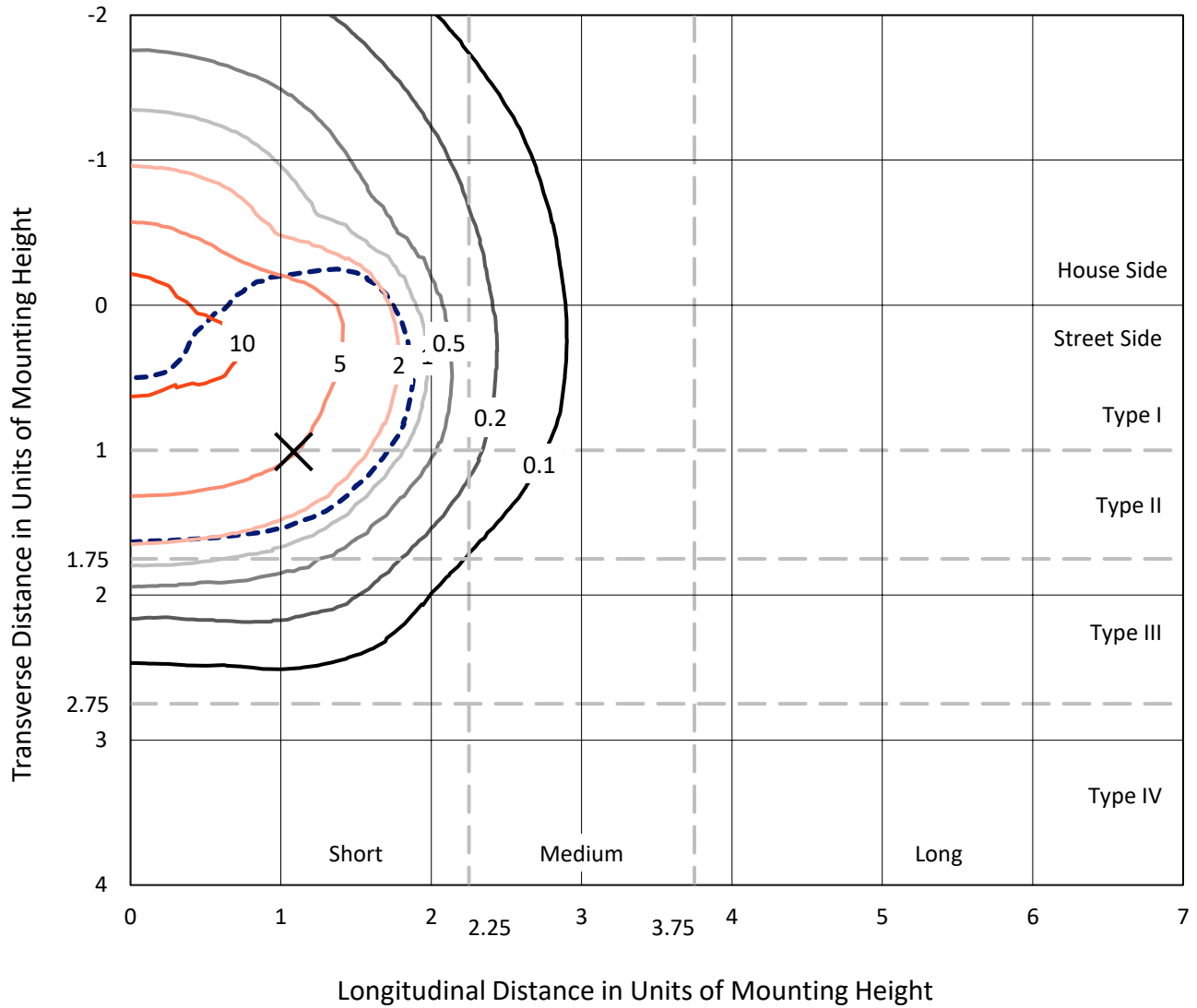
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

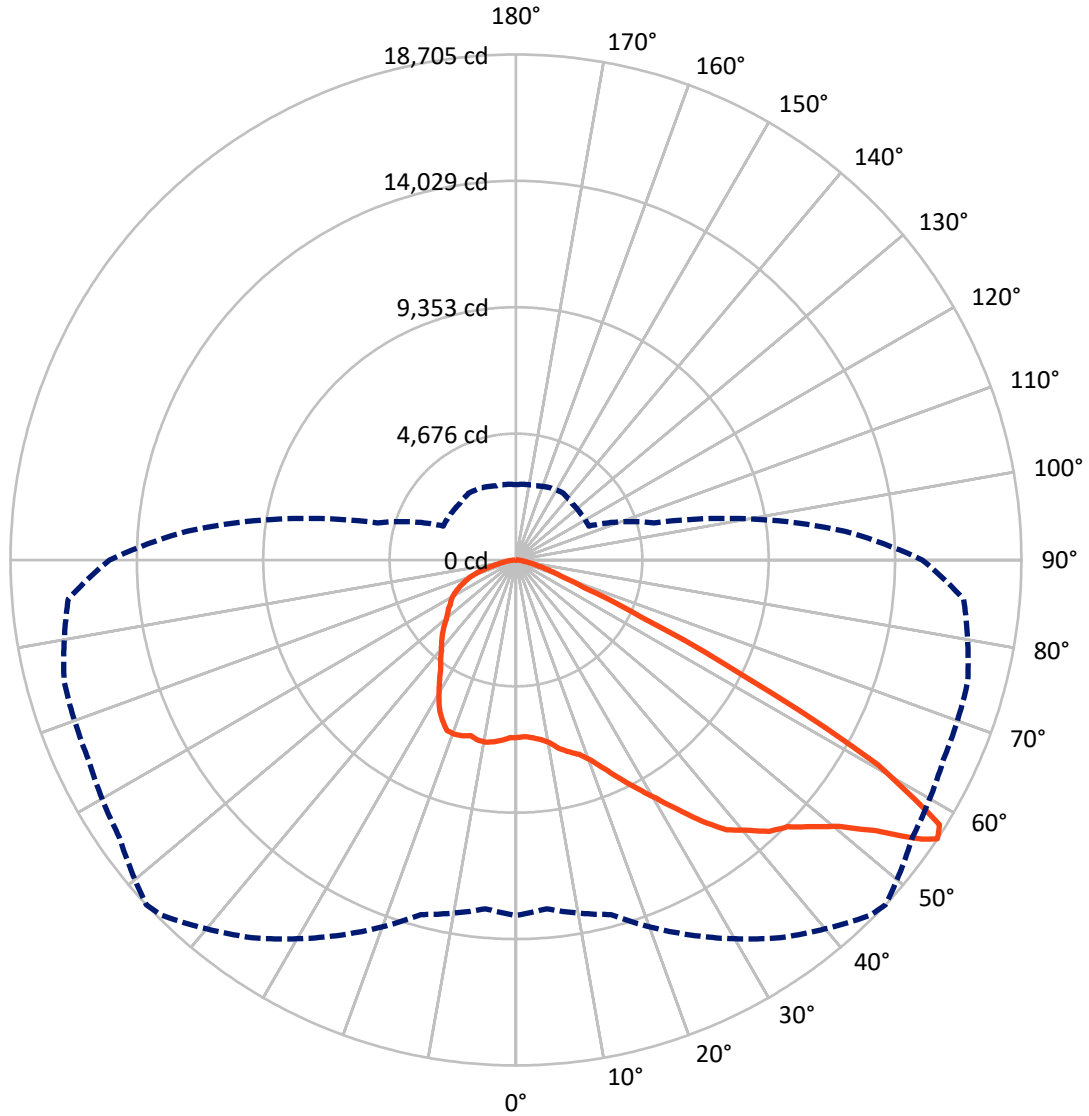
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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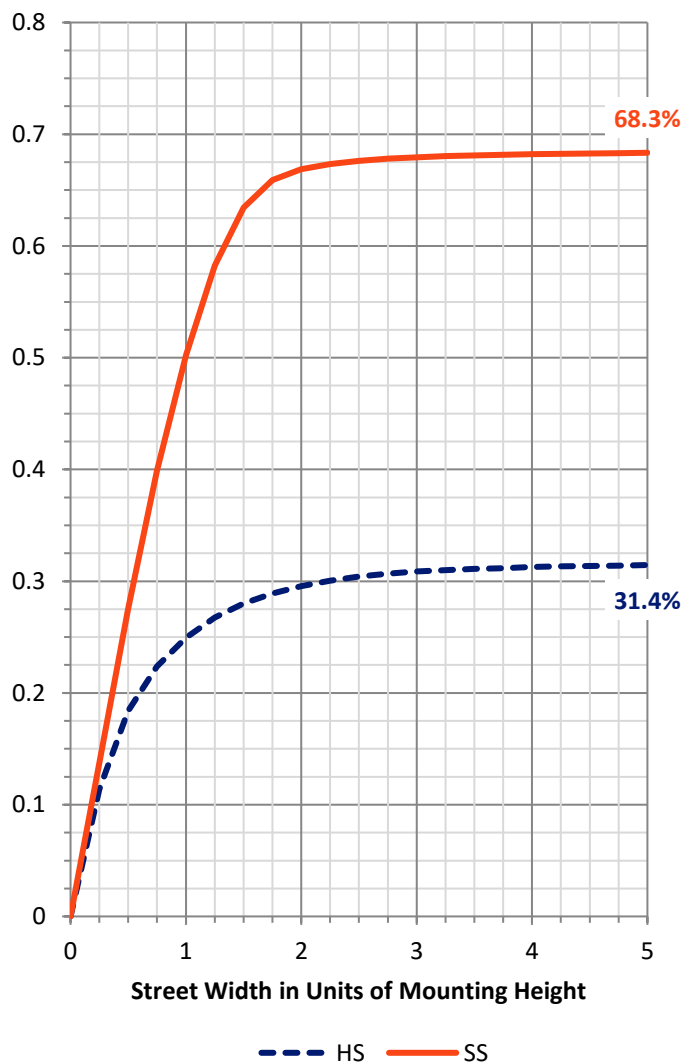
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10365.1	0.0	10365.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22343.9	0.0	22343.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	32709.0	0.0	32709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	2.0
10°-20°	2019.4	6.2
20°-30°	3569.9	10.9
30°-40°	5361.9	16.4
40°-50°	7358.7	22.5
50°-60°	8766.9	26.8
60°-70°	3751.7	11.5
70°-80°	1061.7	3.2
80°-90°	178.7	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°	32709.0	100.0
0°-180°	32709.0	100.0

Coefficient of Utilization



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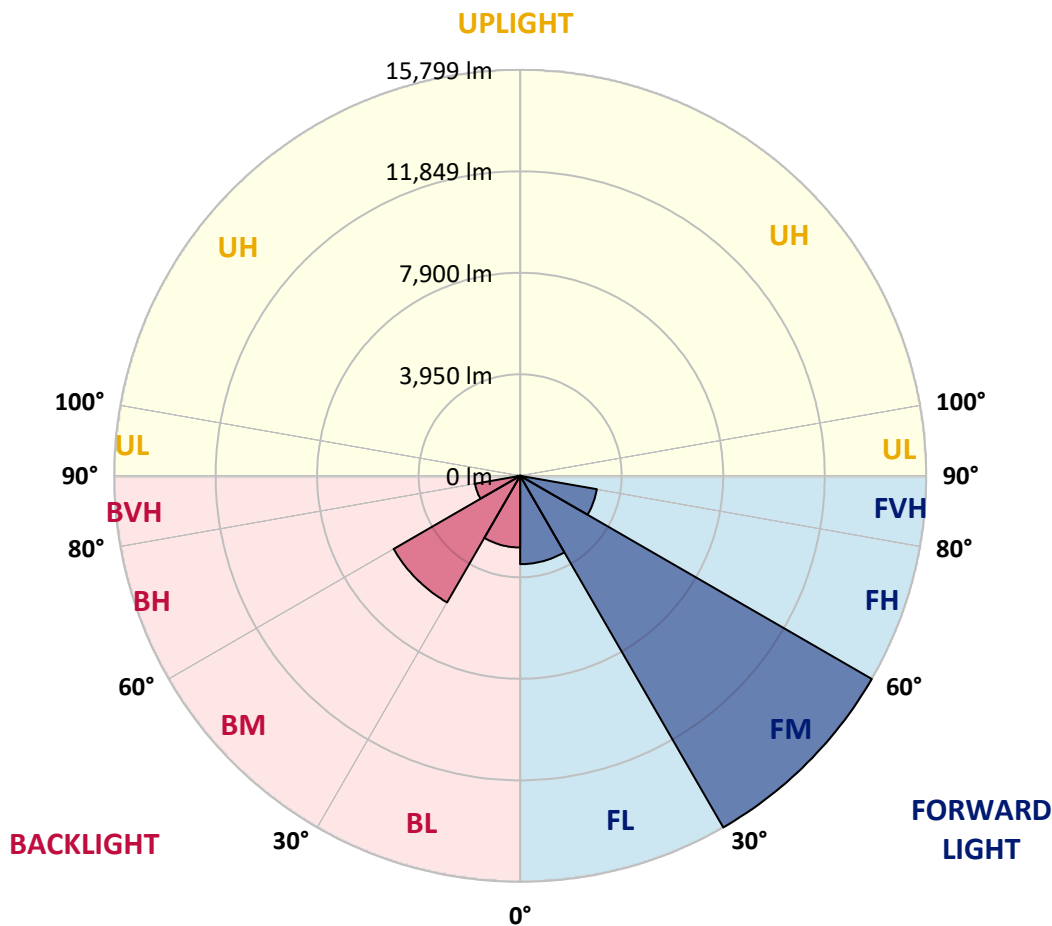
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3438.8	10.5			
FM (30°-60°)	15799.2	48.3			
FH (60°-80°)	3030.0	9.3			G2/5000
FVH (80°-90°)	75.8	0.2			G1/100
BL (0°-30°)	2790.7	8.5	B4/5000		
BM (30°-60°)	5688.2	17.4	B4/8500		
BH (60°-80°)	1783.4	5.5	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°	47°	55°	65°	75°	85°
0°	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2
2.5°	6545.2	6532.7	6524.4	6591.1	6566.1	6570.2	6545.2	6570.2	6586.9	6549.4	6603.6
5°	6532.7	6570.2	6536.9	6557.7	6612.0	6595.3	6612.0	6662.0	6649.5	6637.0	6620.3
7.5°	6649.5	6653.7	6678.7	6687.0	6703.7	6687.0	6712.1	6758.0	6745.5	6674.5	6682.9
10°	6816.4	6824.7	6828.9	6874.8	6904.0	6908.1	6878.9	6837.2	6833.1	6929.0	6862.3
12.5°	7008.3	6987.4	7037.5	7054.1	7087.5	7125.1	7162.6	7075.0	7129.2	7133.4	7054.1
15°	7287.8	7308.6	7250.2	7250.2	7262.7	7266.9	7371.2	7329.5	7321.1	7275.2	7308.6
17.5°	7704.9	7563.1	7558.9	7500.5	7492.2	7525.5	7563.1	7596.5	7709.1	7617.3	7437.9
20°	8009.4	8042.8	7921.8	7850.9	7863.4	7938.5	7901.0	8051.2	8130.4	7980.2	7805.0
22.5°	8547.6	8434.9	8464.1	8305.6	8318.1	8397.4	8393.2	8547.6	8593.5	8355.7	8101.2
25°	8910.5	8881.3	8906.3	8781.2	8797.9	8860.4	8960.6	9215.0	9139.9	8877.1	8288.9
27.5°	9440.3	9381.9	9361.0	9315.1	9298.5	9465.3	9582.1	9853.3	9799.1	9415.3	8622.7
30°	9982.6	9945.1	9965.9	9778.2	9844.9	10199.5	10232.9	10604.2	10579.1	9903.3	8993.9
32.5°	10358.0	10378.9	10416.4	10312.2	10608.3	10892.0	11004.6	11426.0	11446.8	10741.8	9711.4
35°	10962.9	10892.0	10912.9	11033.8	11171.5	11688.8	11872.3	12151.8	12327.0	11622.0	10399.8
37.5°	11342.5	11417.6	11330.0	11521.9	11880.7	12502.2	12669.1	12956.9	13140.5	12489.7	11338.4
40°	11934.9	11813.9	11876.5	12014.2	12381.3	13190.5	13144.7	13440.8	13499.2	13228.1	12214.4
42.5°	12573.2	12514.8	12427.1	12740.0	13048.7	13636.9	13728.7	13591.0	13887.2	13949.8	13465.9
45°	13336.6	13407.5	13420.0	13428.3	13699.5	14212.6	14087.4	13966.5	14308.5	14763.2	14241.8
47.5°	14045.7	13820.5	13983.1	14208.4	14592.2	14596.4	14742.4	14454.5	14817.5	15222.1	14942.6
50°	14283.5	14175.0	14392.0	14817.5	15409.8	15472.4	15489.1	15080.3	15268.0	15589.2	15184.6
52.5°	14191.7	14154.2	14709.0	15368.1	16235.8	16552.8	16636.3	16131.5	16235.8	16089.8	15718.5
55°	13753.7	13866.3	14425.3	15768.6	17099.3	18079.6	18238.2	17599.9	16936.6	17049.3	16640.4
56°	13153.0	12956.9	13582.7	15313.9	17061.8	18576.1	18705.4	17908.6	17458.1	17312.1	16632.1
57.5°	11159.0	10904.5	11726.3	13778.7	16114.8	18388.3	18484.3	18037.9	17370.5	17074.3	15418.2
60°	6532.7	6657.8	7700.7	9502.9	12431.3	15076.1	15397.3	15722.7	15276.3	13949.8	11476.0
62.5°	3153.7	3074.5	3821.2	5448.1	7575.6	9623.8	9527.9	10441.5	10942.1	9911.7	7246.0
65°	1651.9	1643.6	2085.8	2974.3	4163.2	5056.0	5143.6	5635.8	6324.1	5106.0	3679.3
67.5°	1213.9	1247.3	1468.4	2090.0	2678.2	2732.4	2719.9	2966.0	3032.7	2565.5	2261.0
70°	951.1	967.8	1130.5	1589.4	1994.0	1785.4	1747.9	1777.1	1973.2	2056.6	1956.5
72.5°	688.3	705.0	842.7	1072.1	1247.3	1218.1	1243.1	1405.8	1647.8	1735.4	1631.1
75°	458.9	471.4	546.5	654.9	738.4	796.8	842.7	1030.4	1255.6	1305.7	1255.6
77.5°	317.0	329.6	379.6	463.0	471.4	508.9	525.6	613.2	750.9	813.5	780.1
80°	179.4	179.4	204.4	237.8	292.0	342.1	350.4	421.3	483.9	525.6	534.0
82.5°	83.4	87.6	108.5	146.0	191.9	237.8	246.1	292.0	337.9	379.6	392.1
85°	41.7	45.9	62.6	87.6	116.8	141.8	137.7	141.8	150.2	141.8	146.0
87.5°	12.5	12.5	16.7	20.9	16.7	20.9	20.9	25.0	29.2	33.4	37.5
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°	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2	6570.2
2.5°	6607.8	6620.3	6536.9	6616.1	6586.9	6582.8	6641.2	6632.8	6653.7	6645.3	6595.3
5°	6612.0	6582.8	6670.4	6591.1	6628.6	6707.9	6653.7	6778.8	6716.2	6758.0	6666.2
7.5°	6741.3	6749.6	6732.9	6766.3	6749.6	6787.2	6758.0	6787.2	6737.1	6741.3	6824.7
10°	6853.9	6828.9	6858.1	6816.4	6845.6	6833.1	6766.3	6745.5	6762.1	6741.3	6795.5
12.5°	7062.5	7016.6	6995.7	6945.7	6912.3	6787.2	6682.9	6624.5	6703.7	6716.2	6691.2
15°	7275.2	7279.4	7183.5	7070.8	6862.3	6674.5	6699.6	6720.4	6720.4	6753.8	6691.2
17.5°	7408.7	7408.7	7321.1	7095.9	6883.1	6774.7	6749.6	6682.9	6624.5	6616.1	6612.0
20°	7642.3	7571.4	7371.2	7091.7	6874.8	6824.7	6637.0	6478.5	6357.5	6315.8	6311.6
22.5°	7909.3	7729.9	7450.4	7100.0	6862.3	6791.3	6440.9	6203.1	5986.2	5894.4	5907.0
25°	8155.4	7867.6	7496.3	7062.5	6816.4	6474.3	6082.2	5752.6	5527.3	5452.3	5414.7
27.5°	8326.5	8013.6	7496.3	7095.9	6645.3	6119.7	5719.2	5297.9	5101.8	5051.8	5060.1
30°	8555.9	8197.2	7625.7	7024.9	6303.3	5660.8	5181.1	4905.8	4789.0	4747.3	4776.5
32.5°	9094.1	8676.9	7805.0	6853.9	5898.6	5202.0	4814.0	4659.7	4488.6	4405.2	4376.0
35°	9678.1	9131.6	7980.2	6566.1	5443.9	4784.8	4542.9	4401.0	4196.6	4104.8	4121.5
37.5°	10504.0	9715.6	7992.8	6090.5	4951.7	4551.2	4330.1	4109.0	3942.1	3800.3	3758.6
40°	11617.9	10512.4	7963.6	5589.9	4555.4	4275.9	4113.2	3837.9	3650.1	3550.0	3570.9
42.5°	12598.2	11446.8	7842.6	5022.6	4196.6	4088.2	3904.6	3633.4	3449.9	3345.6	3337.3
45°	13424.2	12135.1	7613.1	4538.7	3896.3	3879.6	3666.8	3458.2	3312.2	3216.3	3258.0
47.5°	14187.6	12690.0	7266.9	4054.8	3620.9	3654.3	3449.9	3320.6	3228.8	3141.2	3137.0
50°	14462.9	12681.6	6962.4	3654.3	3399.8	3383.2	3374.8	3237.1	3141.2	3066.1	3099.5
52.5°	14921.8	12823.4	6632.8	3379.0	3199.6	3203.8	3233.0	3132.9	3024.4	2978.5	3020.2
55°	15580.9	12844.3	5907.0	3057.8	3032.7	3061.9	3061.9	2995.2	2903.4	2865.9	2845.0
56°	15042.7	12222.7	5297.9	2974.3	2949.3	2949.3	3028.6	2953.5	2840.8	2811.6	2786.6
57.5°	13874.7	10708.5	4434.4	2874.2	2836.7	2895.1	2936.8	2857.5	2753.2	2711.5	2736.6
60°	9569.6	7246.0	3333.1	2657.3	2657.3	2753.2	2786.6	2669.8	2623.9	2619.8	2586.4
62.5°	5585.8	4221.6	2607.2	2461.2	2469.6	2548.8	2573.9	2507.1	2448.7	2519.6	2553.0
65°	2961.8	2519.6	2236.0	2252.7	2256.8	2319.4	2427.9	2423.7	2419.5	2440.4	2444.5
67.5°	2144.2	2094.1	2031.6	2014.9	2023.2	2069.1	2177.6	2261.0	2256.8	2206.8	2169.2
70°	1910.6	1839.7	1802.1	1806.3	1772.9	1827.2	1914.8	1969.0	1873.0	1814.6	1789.6
72.5°	1589.4	1568.5	1543.5	1547.7	1480.9	1468.4	1368.3	1368.3	1343.2	1326.6	1355.8
75°	1213.9	1205.6	1218.1	1197.2	1126.3	1051.2	992.8	938.6	855.2	821.8	805.1
77.5°	767.6	792.6	821.8	775.9	746.7	692.5	634.1	579.9	513.1	475.6	475.6
80°	521.4	542.3	563.2	554.8	521.4	471.4	425.5	367.1	321.2	292.0	287.8
82.5°	396.3	413.0	442.2	408.8	375.4	333.7	296.2	254.5	212.8	179.4	179.4
85°	141.8	162.7	179.4	196.1	208.6	212.8	183.5	150.2	121.0	95.9	91.8
87.5°	37.5	41.7	45.9	41.7	41.7	41.7	45.9	41.7	37.5	29.2	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

(END OF REPORT)