

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640147

Luminaire Tested: GWS-SA5D-730-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23348.3 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

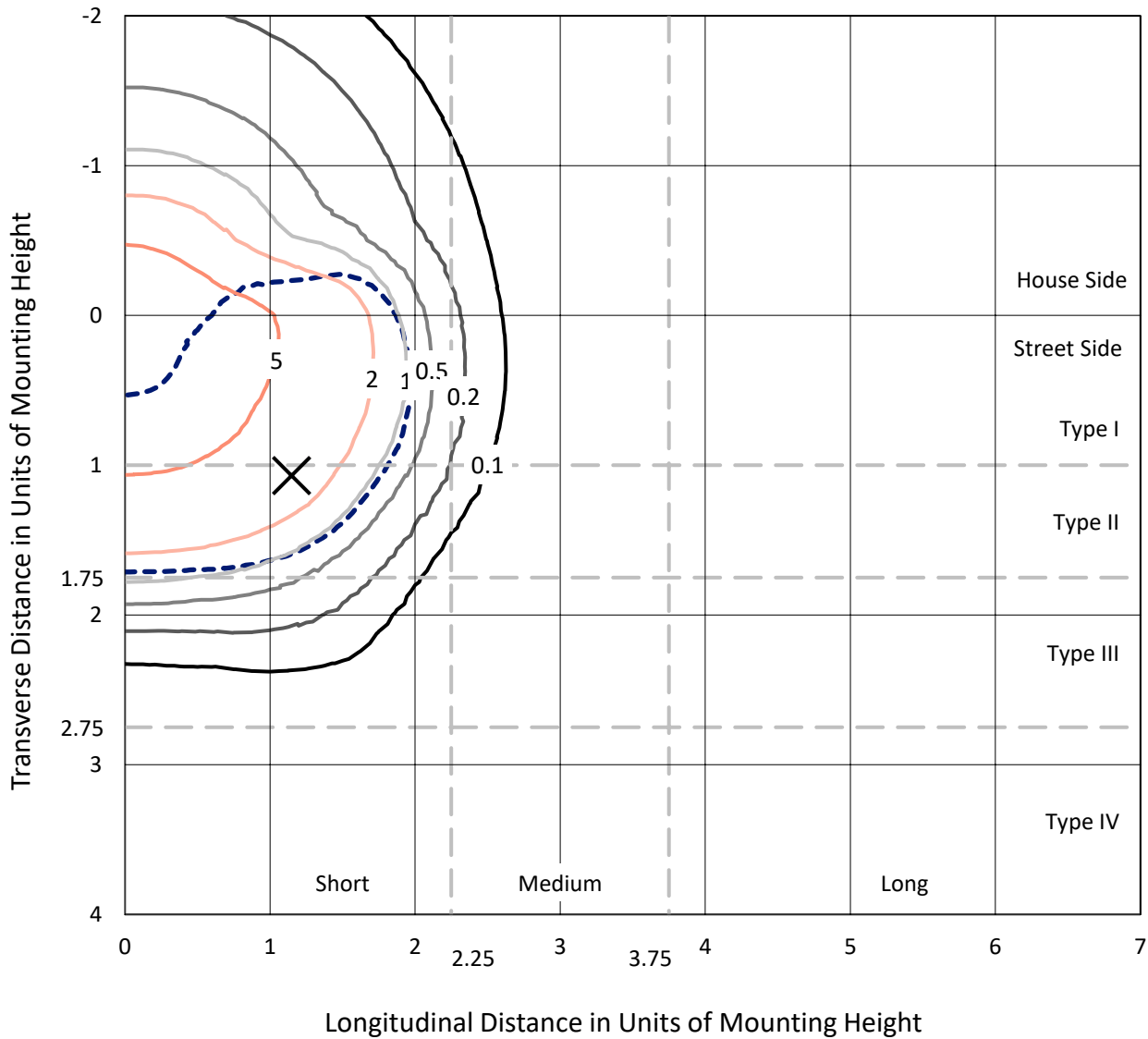
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

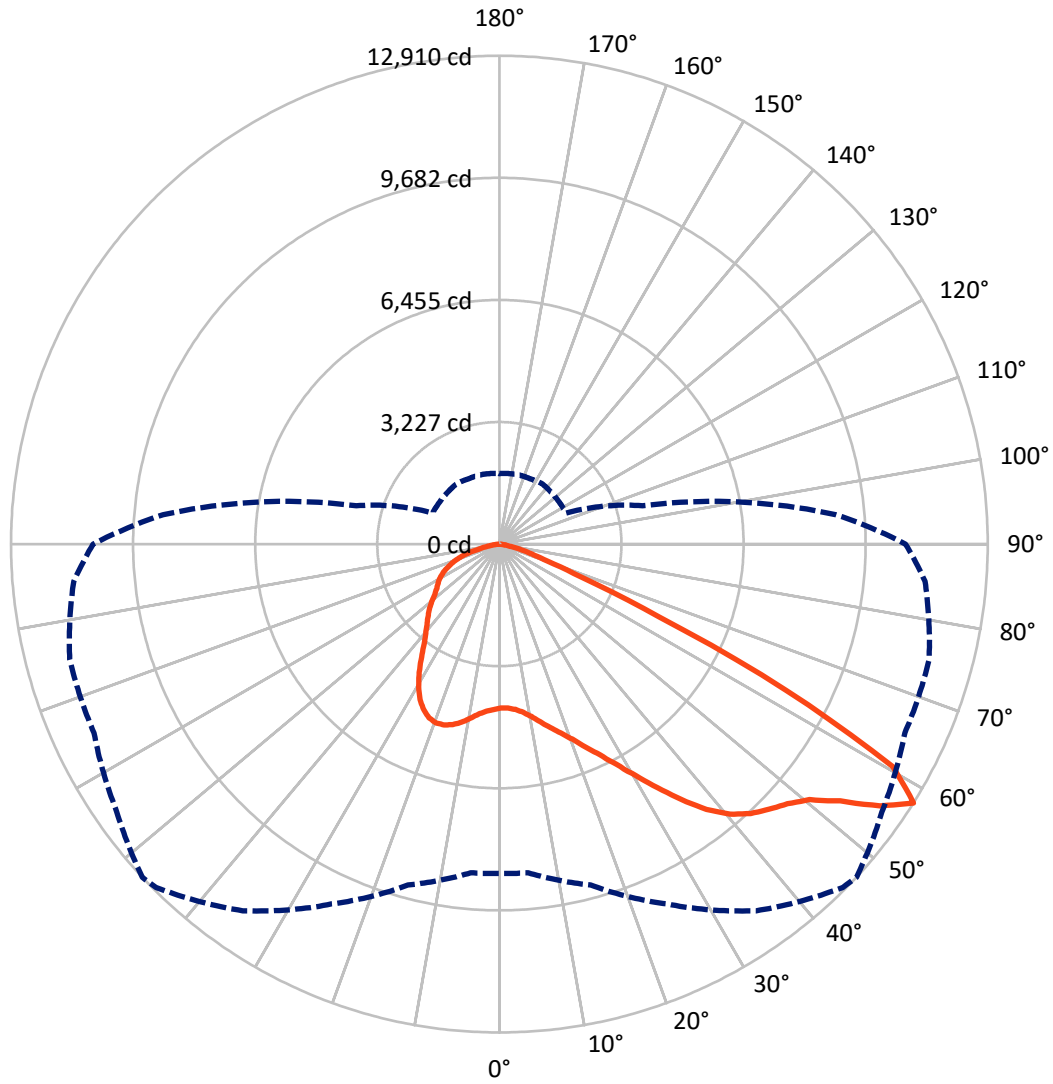
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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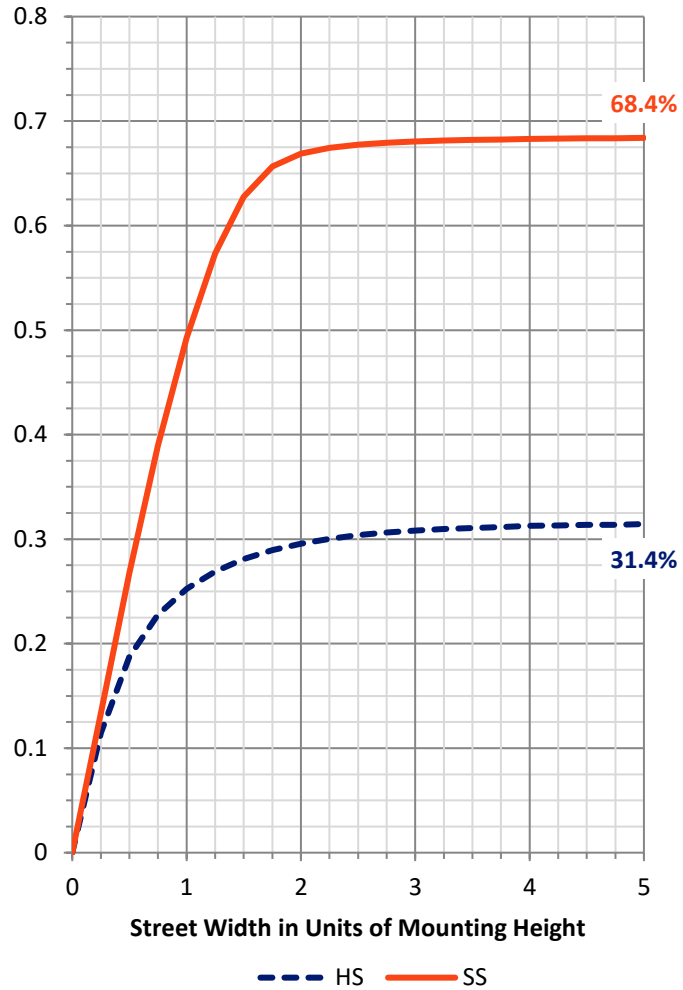
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7389.7	0.0	7389.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15958.6	0.0	15958.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	23348.3	0.0	23348.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	1.8
10°-20°	1404.7	6.0
20°-30°	2529.2	10.8
30°-40°	3820.1	16.4
40°-50°	5144.3	22.0
50°-60°	6181.6	26.5
60°-70°	3010.5	12.9
70°-80°	741.7	3.2
80°-90°	89.1	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°	23348.3	100.0
0°-180°	23348.3	100.0

Coefficient of Utilization



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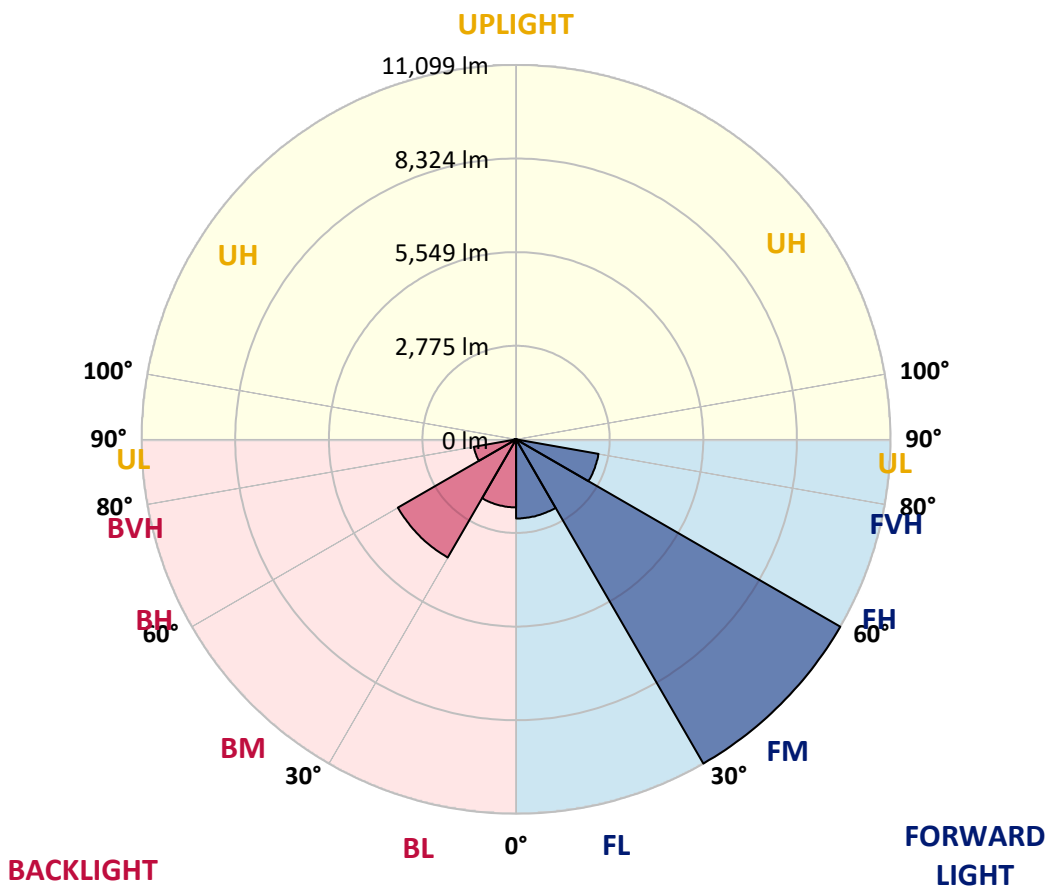
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.2	10.0			
FM (30°-60°)	11098.7	47.5			
FH (60°-80°)	2481.2	10.6			G2/5000
FVH (80°-90°)	33.5	0.1			G1/100
BL (0°-30°)	2015.8	8.6	B3/2500		
BM (30°-60°)	4047.3	17.3	B3/5000		
BH (60°-80°)	1271.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	55.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0
2.5°	4322.1	4320.2	4320.2	4331.9	4331.9	4335.9	4341.7	4347.6	4349.6	4339.8	4318.2
5°	4369.2	4369.2	4369.2	4379.0	4379.0	4382.9	4390.8	4392.7	4390.8	4375.1	4353.5
7.5°	4443.7	4443.7	4445.7	4457.4	4467.2	4473.1	4486.9	4484.9	4479.0	4453.5	4426.1
10°	4565.3	4571.2	4577.1	4590.8	4610.4	4624.1	4633.9	4633.9	4626.1	4586.9	4551.6
12.5°	4737.9	4745.7	4751.6	4763.4	4779.1	4802.6	4824.2	4824.2	4814.4	4765.3	4712.4
15°	4939.9	4947.7	4945.7	4949.7	4979.1	5012.4	5030.1	5041.8	5045.8	4977.1	4894.8
17.5°	5171.3	5179.1	5171.3	5159.5	5163.4	5216.4	5247.7	5290.9	5316.4	5224.2	5092.8
20°	5381.1	5373.2	5373.2	5381.1	5392.9	5457.6	5504.6	5575.2	5606.6	5494.8	5290.9
22.5°	5602.7	5620.3	5612.5	5612.5	5659.6	5767.4	5824.3	5916.5	5949.8	5804.7	5530.1
25°	5889.0	5904.7	5900.8	5904.7	5959.6	6112.6	6169.4	6340.0	6373.4	6165.5	5794.9
27.5°	6202.8	6228.3	6240.0	6236.1	6324.4	6524.4	6595.0	6832.3	6893.1	6569.5	6077.3
30°	6610.7	6638.1	6647.9	6644.0	6747.9	7020.5	7100.9	7371.5	7457.8	7048.0	6436.1
32.5°	7083.3	7110.7	7140.1	7151.9	7285.3	7563.7	7679.4	7959.9	8083.4	7601.0	6869.5
35°	7552.0	7575.5	7632.4	7724.5	7906.9	8191.3	8293.2	8569.7	8689.4	8175.6	7393.1
37.5°	8069.7	8085.4	8134.4	8261.9	8524.6	8795.3	8897.2	9162.0	9175.7	8730.5	7985.4
40°	8636.4	8636.4	8626.6	8752.1	9026.7	9299.3	9387.5	9540.5	9460.1	9158.1	8561.9
42.5°	9116.9	9109.0	9116.9	9234.5	9438.5	9660.1	9736.6	9707.1	9605.2	9485.5	9083.5
45°	9550.3	9556.1	9626.7	9717.0	9822.8	9954.2	9999.3	9832.7	9740.5	9748.3	9501.2
47.5°	9844.4	9850.3	10015.0	10166.0	10230.7	10271.9	10252.3	10020.9	9973.8	10062.1	9822.8
50°	9883.6	9915.0	10199.4	10509.2	10670.0	10675.9	10621.0	10338.6	10324.9	10424.9	9995.4
52.5°	9891.5	9922.9	10277.8	10836.7	11254.4	11342.7	11279.9	10985.7	10842.6	10742.6	10207.2
55°	9862.1	9897.4	10289.6	11056.3	11856.4	12209.4	12215.3	11799.6	11342.7	11276.0	10811.2
57.5°	8707.0	8720.7	9328.7	10497.4	11832.9	12833.0	12909.5	12344.7	11823.1	11760.4	11295.6
60°	6065.5	6120.4	6781.3	8324.6	9940.5	11703.5	11950.6	11785.8	11436.8	10979.9	9691.5
62.5°	3037.7	3084.7	3747.5	5206.6	6855.8	8248.1	8512.9	8687.4	8769.8	8279.5	6598.9
65°	1308.0	1343.3	1755.1	2720.0	3880.9	4553.5	4645.7	4855.5	5369.3	4790.8	3555.4
67.5°	874.6	898.2	1108.0	1659.0	2286.6	2329.7	2316.0	2361.1	2472.9	2041.4	1606.1
70°	670.7	690.3	831.5	1215.8	1643.4	1406.1	1331.5	1208.0	1311.9	1337.4	1302.1
72.5°	486.3	502.0	607.9	829.5	1029.5	898.2	886.4	949.1	1090.3	1129.6	1108.0
75°	313.8	321.6	386.3	455.0	531.4	576.5	600.1	713.8	857.0	886.4	860.9
77.5°	209.8	215.7	253.0	292.2	302.0	304.0	311.8	362.8	460.8	515.8	509.9
80°	109.8	109.8	123.5	123.5	141.2	168.6	176.5	209.8	254.9	282.4	284.4
82.5°	43.1	45.1	52.9	58.8	70.6	86.3	92.2	109.8	133.4	153.0	170.6
85°	17.6	19.6	21.6	25.5	31.4	39.2	41.2	47.1	62.8	78.4	88.2
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	5.9	7.8	9.8	17.6	23.5
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°	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0	4330.0
2.5°	4343.7	4318.2	4343.7	4351.5	4373.1	4381.0	4367.2	4365.3	4365.3	4345.7	4339.8
5°	4373.1	4349.6	4375.1	4386.8	4418.2	4437.8	4441.8	4457.4	4467.2	4459.4	4457.4
7.5°	4445.7	4416.3	4443.7	4461.4	4502.5	4533.9	4547.7	4583.0	4608.4	4604.5	4602.6
10°	4573.1	4533.9	4565.3	4594.7	4639.8	4677.1	4679.0	4698.7	4724.1	4716.3	4712.4
12.5°	4720.2	4683.0	4718.3	4747.7	4800.6	4816.3	4790.8	4783.0	4786.9	4777.1	4769.2
15°	4900.6	4847.7	4879.1	4912.4	4941.8	4924.2	4869.3	4847.7	4845.7	4832.0	4824.2
17.5°	5081.1	5014.4	5037.9	5055.6	5041.8	4986.9	4918.3	4881.0	4863.4	4835.9	4828.1
20°	5259.5	5175.2	5171.3	5157.5	5094.8	4994.8	4902.6	4828.1	4783.0	4745.7	4732.0
22.5°	5463.5	5345.8	5287.0	5224.2	5086.9	4924.2	4784.9	4679.0	4606.5	4559.4	4543.7
25°	5683.1	5516.4	5394.8	5269.3	5008.5	4773.2	4579.0	4433.9	4347.6	4296.6	4279.0
27.5°	5900.8	5671.3	5489.0	5275.2	4851.6	4555.5	4294.7	4098.6	4012.3	3971.1	3957.4
30°	6194.9	5877.2	5600.7	5198.7	4645.7	4253.5	3928.0	3729.9	3673.0	3643.6	3631.8
32.5°	6534.2	6138.1	5749.8	5037.9	4382.9	3900.5	3557.3	3420.1	3380.8	3324.0	3322.0
35°	6981.3	6510.7	5891.0	4800.6	4051.5	3522.0	3273.0	3174.9	3104.3	3014.1	3006.3
37.5°	7502.9	6975.4	5967.4	4498.6	3665.2	3210.2	3061.2	2951.4	2837.6	2718.0	2702.3
40°	8042.2	7518.6	5973.3	4141.7	3286.7	3004.3	2878.8	2735.7	2594.5	2461.1	2443.5
42.5°	8609.0	8024.6	5869.4	3729.9	2976.9	2825.9	2698.4	2518.0	2359.1	2268.9	2259.1
45°	9114.9	8432.5	5634.1	3296.5	2747.4	2676.8	2514.1	2319.9	2235.6	2170.9	2157.1
47.5°	9513.0	8703.1	5316.4	2908.2	2561.1	2523.9	2312.1	2212.1	2147.3	2088.5	2074.8
50°	9709.1	8763.9	4902.6	2592.5	2388.5	2343.4	2198.3	2121.8	2078.7	2031.6	2019.9
52.5°	9952.3	8832.5	4545.7	2327.8	2219.9	2159.1	2104.2	2043.4	2012.0	1982.6	1972.8
55°	10511.2	9091.4	4357.4	2116.0	2059.1	2031.6	2023.8	1972.8	1963.0	1943.4	1925.7
57.5°	10738.7	8924.7	3912.3	1943.4	1931.6	1935.5	1955.2	1908.1	1898.3	1874.8	1863.0
60°	8636.4	6746.0	2649.4	1794.4	1825.7	1851.2	1870.8	1823.8	1810.0	1806.1	1790.4
62.5°	5534.1	4149.6	1849.3	1655.1	1702.2	1733.6	1745.3	1700.2	1690.4	1721.8	1723.8
65°	2880.8	2261.1	1500.2	1506.1	1545.3	1592.4	1615.9	1600.2	1596.3	1629.6	1631.6
67.5°	1470.8	1382.5	1308.0	1329.6	1361.0	1421.8	1476.7	1545.3	1568.8	1572.8	1574.7
70°	1253.1	1213.9	1176.6	1190.4	1223.7	1257.0	1310.0	1343.3	1304.1	1294.3	1290.4
72.5°	1066.8	1037.4	1019.7	1035.4	1053.1	1047.2	1031.5	1047.2	1053.1	1055.0	1057.0
75°	829.5	807.9	794.2	796.2	796.2	774.6	745.2	727.5	707.9	692.2	692.2
77.5°	507.9	511.8	525.6	523.6	521.6	513.8	484.4	468.7	421.6	407.9	407.9
80°	290.2	296.1	309.8	313.8	313.8	304.0	274.5	256.9	235.3	225.5	223.6
82.5°	176.5	184.3	192.2	196.1	198.1	186.3	160.8	147.1	135.3	125.5	125.5
85°	92.2	96.1	103.9	105.9	100.0	88.2	74.5	68.6	56.9	54.9	54.9
87.5°	25.5	27.5	31.4	25.5	23.5	17.6	9.8	7.8	3.9	2.0	2.0
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)