

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: P640843

Luminaire Tested: GWS-SA5E-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36374.5 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

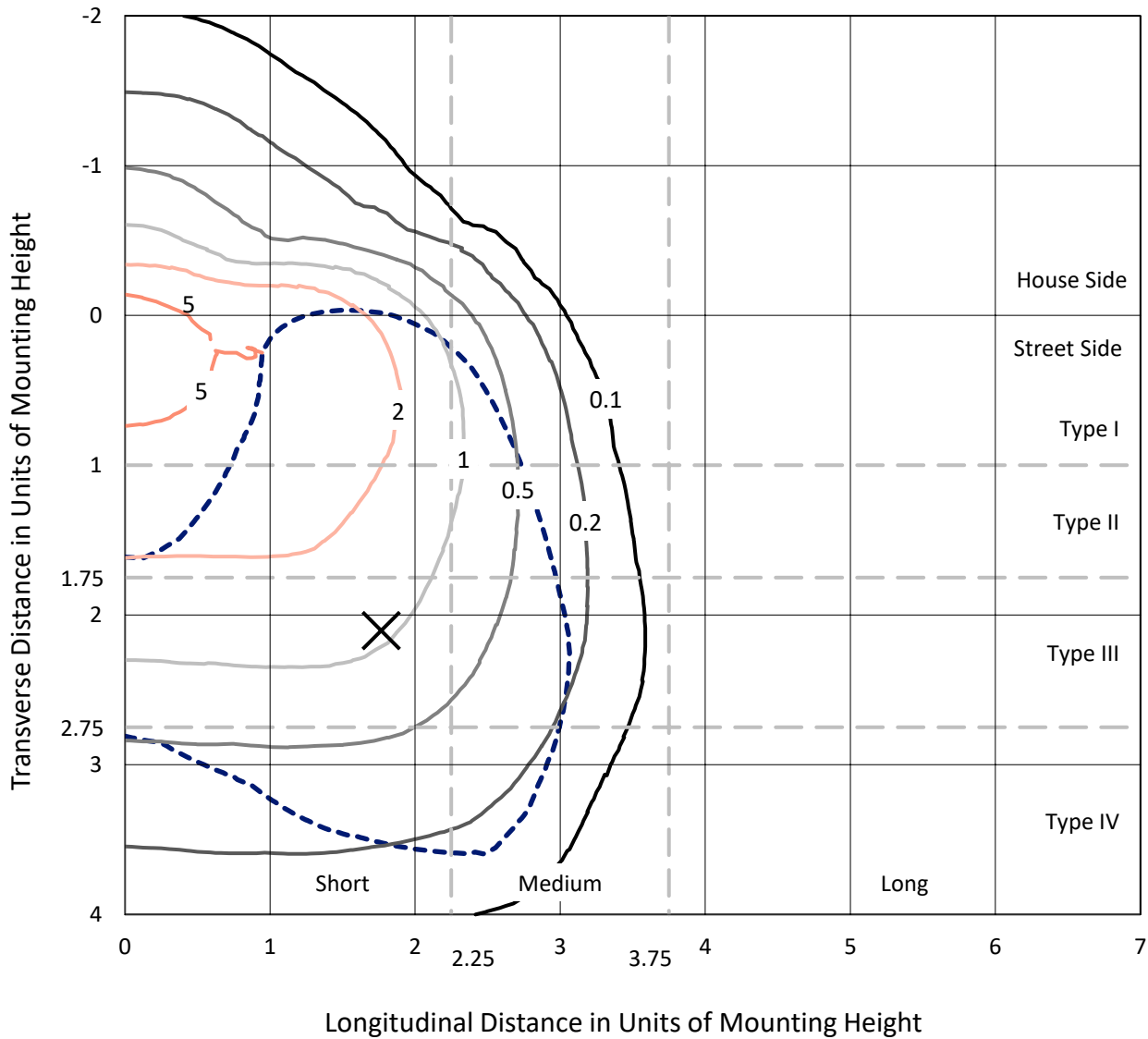
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

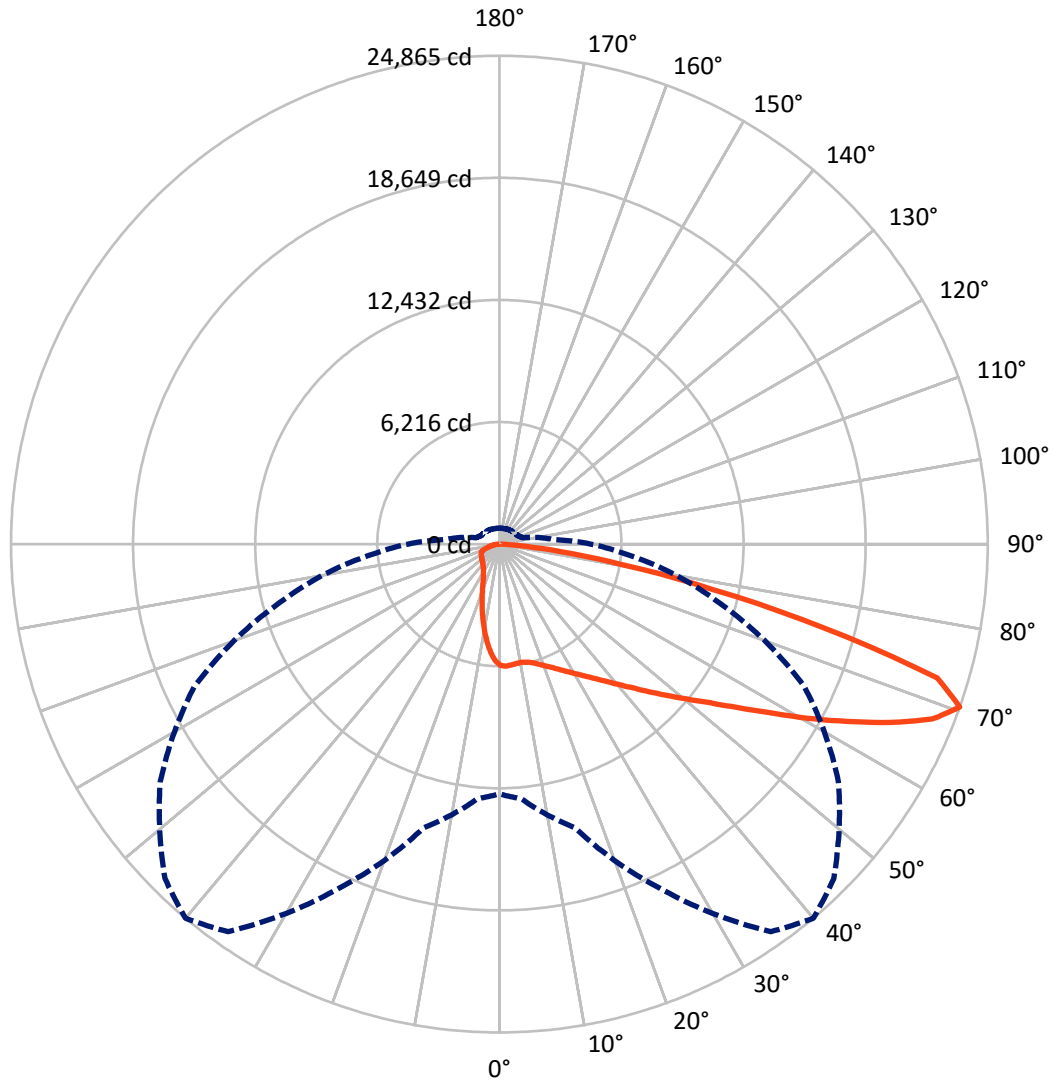
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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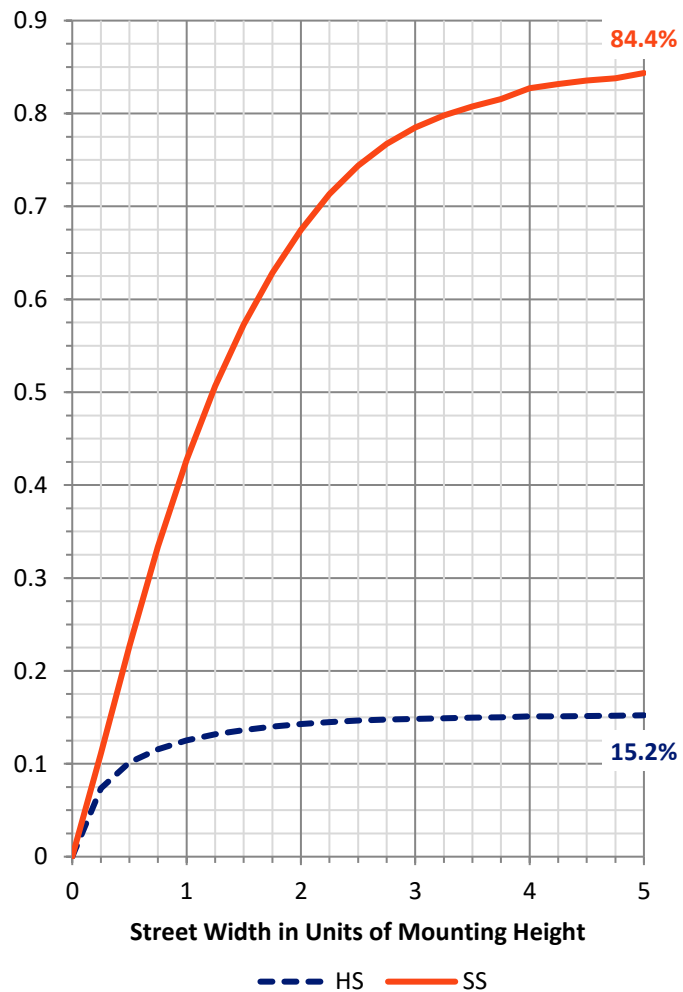
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5602.6	0.0	5602.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	30771.9	0.0	30771.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	36374.5	0.0	36374.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.7	1.5
10°-20°	1422.3	3.9
20°-30°	2233.3	6.1
30°-40°	3357.8	9.2
40°-50°	5182.9	14.2
50°-60°	7697.1	21.2
60°-70°	9702.0	26.7
70°-80°	5610.6	15.4
80°-90°	622.7	1.7
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°	36374.5	100.0
0°-180°	36374.5	100.0

Coefficient of Utilization



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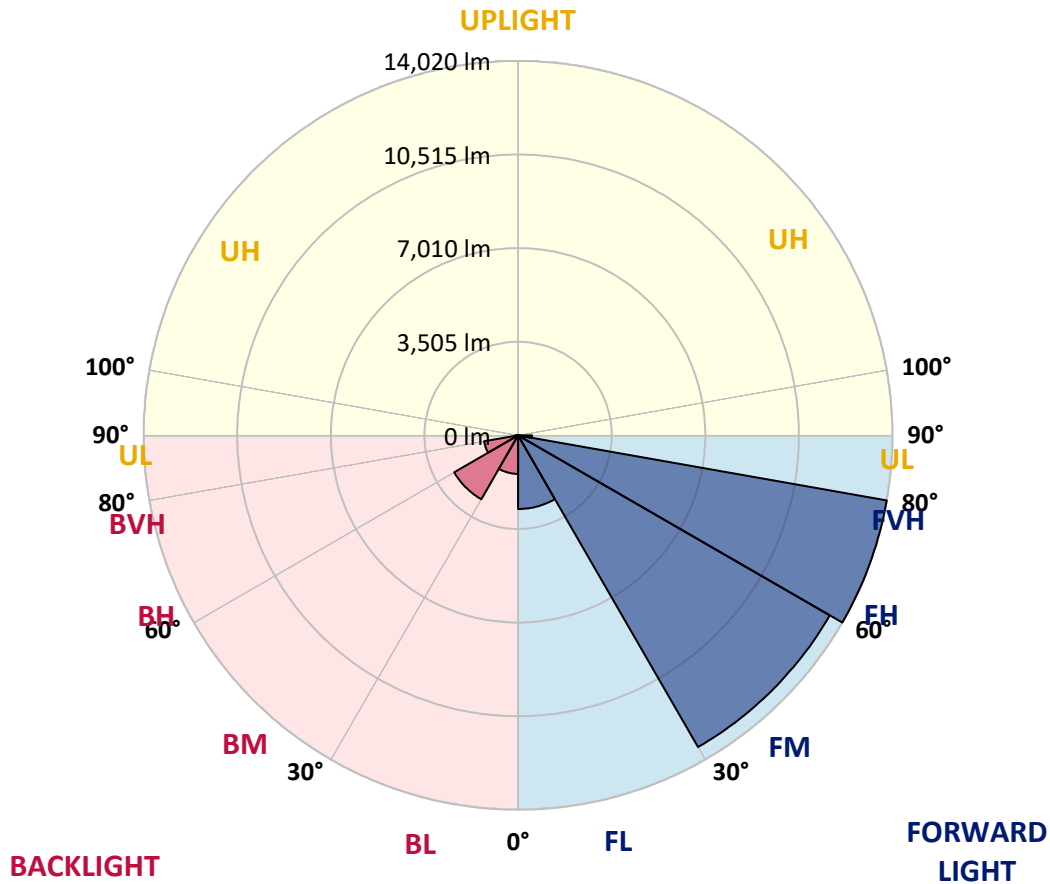
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2757.5	7.6			
FM (30°-60°)	13476.3	37.0			
FH (60°-80°)	14019.6	38.5			G5
FVH (80°-90°)	518.6	1.4			G4/750
BL (0°-30°)	1443.9	4.0	B3/2500		
BM (30°-60°)	2761.6	7.6	B3/5000		
BH (60°-80°)	1293.1	3.6	B3/2500		G3/2500
BVH (80°-90°)	104.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8
2.5°	6214.8	6225.7	6233.8	6244.7	6239.3	6223.0	6236.5	6236.5	6206.7	6174.1	6144.2
5°	6223.0	6236.5	6233.8	6231.1	6209.4	6182.2	6182.2	6165.9	6114.4	6062.8	6013.9
7.5°	6206.7	6204.0	6201.2	6193.1	6168.7	6138.8	6133.4	6100.8	6032.9	5962.3	5891.7
10°	6133.4	6130.7	6138.8	6157.8	6152.4	6125.2	6125.2	6095.4	6016.6	5929.7	5837.4
12.5°	6073.6	6073.6	6106.2	6157.8	6176.8	6165.9	6168.7	6146.9	6057.3	5954.2	5845.6
15°	6081.8	6084.5	6155.1	6239.3	6274.6	6266.4	6269.1	6244.7	6144.2	6041.1	5894.4
17.5°	6136.1	6149.7	6271.8	6388.6	6434.7	6423.9	6404.9	6364.1	6250.1	6133.4	5954.2
20°	6250.1	6271.8	6429.3	6575.9	6630.2	6605.8	6573.2	6491.8	6366.9	6239.3	6019.3
22.5°	6475.5	6489.0	6662.8	6806.7	6850.1	6820.3	6755.1	6638.4	6494.5	6361.4	6098.1
25°	6793.1	6809.4	6975.0	7108.1	7097.2	7061.9	6972.3	6828.4	6657.4	6516.2	6212.1
27.5°	7170.5	7197.7	7360.6	7466.5	7395.9	7344.3	7243.8	7070.1	6877.3	6749.7	6385.9
30°	7583.2	7594.1	7732.5	7838.4	7729.8	7659.2	7537.1	7349.7	7176.0	7080.9	6646.5
32.5°	7982.3	7993.2	8112.7	8172.4	8058.4	8006.8	7900.9	7702.7	7580.5	7528.9	7034.8
35°	8403.2	8400.5	8498.2	8549.8	8433.0	8411.3	8302.7	8150.7	8128.9	8196.8	7602.2
37.5°	8824.0	8799.6	8851.2	8919.0	8853.9	8875.6	8805.0	8753.4	8837.6	9014.1	8357.0
40°	9160.7	9160.7	9215.0	9299.1	9320.9	9415.9	9375.2	9443.0	9714.6	10135.4	9291.0
42.5°	9459.3	9462.1	9576.1	9706.4	9863.9	10010.5	10043.1	10219.6	10781.6	11441.3	10463.9
45°	9771.6	9774.3	9929.0	10119.1	10453.1	10732.7	10797.9	11194.3	11997.9	12801.6	11737.3
47.5°	10132.7	10102.8	10317.3	10635.0	11110.1	11511.9	11680.3	12242.3	13257.7	14246.0	12937.4
50°	10539.9	10477.5	10716.4	11264.9	11851.3	12402.5	12684.9	13328.3	14609.8	15579.1	14066.8
52.5°	10998.8	10963.5	11213.3	11881.2	12777.2	13412.5	13795.3	14639.7	15923.9	16906.8	14962.8
55°	11569.0	11484.8	11845.9	12695.7	13863.2	14672.3	15125.7	15937.5	17360.2	18112.3	15647.0
57.5°	12193.4	12101.1	12584.4	13713.9	15275.0	16162.9	16730.3	17398.2	18712.3	19035.4	16048.8
60°	12866.8	12836.9	13409.8	14908.5	16958.4	17990.1	18400.1	19005.6	19888.0	19570.3	15948.4
62.5°	13483.1	13472.2	14305.8	16203.6	18742.2	19877.1	20202.9	20363.1	20735.1	19535.0	15150.1
65°	14132.0	14224.3	15351.1	17705.0	20786.7	21899.8	22035.6	21628.3	21020.2	18609.2	13515.7
67.5°	14213.4	14392.6	16008.1	19111.4	22725.2	23776.0	23667.4	22108.9	20178.5	16032.5	10594.2
70°	12712.0	13024.2	14960.1	19325.9	24090.9	24864.7	24080.0	21074.5	17124.0	11615.1	6662.8
72.5°	10621.4	10890.2	12600.7	16480.5	22328.8	23314.4	22252.8	17838.1	12101.1	6662.8	3393.9
75°	8267.4	8579.7	10157.1	13100.3	16716.7	17110.4	16578.3	12440.5	6651.9	2747.7	1542.2
77.5°	5044.6	5270.0	6497.2	8875.6	11696.6	11107.4	9413.2	6975.0	2918.7	1316.8	953.0
80°	2231.8	2370.3	3201.1	4767.7	6757.8	6388.6	5036.5	2978.4	1596.5	836.2	665.2
82.5°	1197.4	1286.9	1577.5	1887.0	2967.6	3103.3	2516.9	1715.9	858.0	477.9	380.1
85°	526.7	578.3	716.8	684.2	974.7	958.4	966.6	1178.3	410.0	219.9	247.1
87.5°	0.0	0.0	0.0	0.0	2.7	2.7	29.9	157.5	40.7	65.2	57.0
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°	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8	6176.8
2.5°	6111.6	6062.8	6049.2	6032.9	6003.0	5951.5	5913.4	5870.0	5851.0	5829.3	5832.0
5°	5959.6	5899.9	5842.9	5769.5	5677.2	5574.1	5503.5	5422.0	5378.6	5337.8	5348.7
7.5°	5829.3	5737.0	5620.2	5465.5	5299.8	5115.2	4965.9	4849.1	4770.4	4716.1	4743.2
10°	5747.8	5639.2	5435.6	5183.1	4903.4	4621.1	4406.6	4205.7	4080.8	3983.0	3977.6
12.5°	5731.5	5590.3	5294.4	4927.9	4523.3	4145.9	3831.0	3559.5	3393.9	3271.7	3317.8
15°	5747.8	5568.6	5172.2	4691.7	4181.2	3670.8	3279.8	2967.6	2769.4	2658.1	2649.9
17.5°	5766.8	5546.9	5033.8	4436.4	3822.8	3239.1	2785.7	2454.4	2250.8	2139.5	2142.2
20°	5783.1	5514.3	4870.9	4156.8	3459.0	2837.3	2367.5	2052.6	1870.7	1789.2	1802.8
22.5°	5810.3	5481.7	4697.1	3858.1	3087.0	2449.0	2036.3	1781.1	1672.5	1618.2	1620.9
25°	5861.9	5462.7	4517.9	3532.3	2720.5	2139.5	1808.2	1637.2	1569.3	1536.7	1534.0
27.5°	5967.7	5479.0	4330.6	3217.4	2389.3	1903.3	1661.6	1550.3	1504.2	1482.4	1479.7
30°	6144.2	5544.2	4167.6	2897.0	2104.2	1718.6	1561.2	1493.3	1466.1	1447.1	1444.4
32.5°	6413.0	5666.4	3991.2	2598.3	1873.4	1582.9	1482.4	1447.1	1428.1	1417.3	1417.3
35°	6820.3	5889.0	3817.4	2337.7	1694.2	1477.0	1420.0	1406.4	1390.1	1384.7	1390.1
37.5°	7406.7	6244.7	3659.9	2109.6	1566.6	1395.6	1352.1	1357.5	1344.0	1352.1	1360.3
40°	8150.7	6719.8	3526.9	1922.3	1471.6	1335.8	1292.4	1311.4	1303.2	1311.4	1325.0
42.5°	9092.8	7309.0	3426.4	1775.7	1403.7	1286.9	1246.2	1265.2	1259.8	1270.7	1284.2
45°	10143.5	8085.5	3380.3	1672.5	1354.8	1251.7	1208.2	1221.8	1216.4	1224.5	1238.1
47.5°	11150.8	8791.4	3421.0	1612.8	1314.1	1221.8	1175.6	1181.1	1178.3	1175.6	1183.8
50°	12019.7	9353.5	3537.7	1593.8	1286.9	1191.9	1148.5	1151.2	1143.0	1126.8	1132.2
52.5°	12728.3	9804.2	3608.3	1593.8	1273.4	1159.3	1118.6	1121.3	1105.0	1083.3	1086.0
55°	13195.3	9986.1	3551.3	1591.0	1267.9	1132.2	1088.7	1091.5	1075.2	1048.0	1050.7
57.5°	13328.3	9809.6	3312.4	1561.2	1262.5	1110.5	1058.9	1064.3	1053.5	1023.6	1023.6
60°	12956.4	9163.4	2875.3	1493.3	1248.9	1096.9	1037.2	1045.3	1039.9	1010.0	1010.0
62.5°	11981.6	8014.9	2354.0	1390.1	1210.9	1080.6	1018.2	1034.4	1048.0	1031.7	1029.0
65°	10157.1	6421.2	1914.1	1276.1	1162.1	1053.5	991.0	1031.7	1061.6	1083.3	1083.3
67.5°	7621.2	4596.6	1561.2	1156.6	1088.7	999.1	955.7	993.7	1015.4	1029.0	1037.2
70°	4645.5	2704.2	1229.9	1018.2	982.9	917.7	885.1	847.1	817.2	811.8	814.5
72.5°	2272.5	1547.6	999.1	866.1	839.0	779.2	705.9	689.6	676.1	667.9	665.2
75°	1251.7	1077.9	825.4	719.5	670.6	597.3	581.0	553.9	548.4	537.6	540.3
77.5°	885.1	849.8	681.5	583.7	510.4	472.4	480.6	461.6	461.6	453.4	450.7
80°	665.2	667.9	524.0	426.3	377.4	363.8	372.0	372.0	366.5	363.8	361.1
82.5°	420.8	475.1	353.0	274.2	268.8	271.5	268.8	266.1	271.5	263.4	260.6
85°	290.5	342.1	214.5	162.9	162.9	160.2	165.6	162.9	168.3	160.2	160.2
87.5°	65.2	152.0	78.7	48.9	51.6	48.9	51.6	54.3	59.7	62.4	62.4
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)