

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: P643646

Luminaire Tested: GWS-SA6F-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48097.3 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

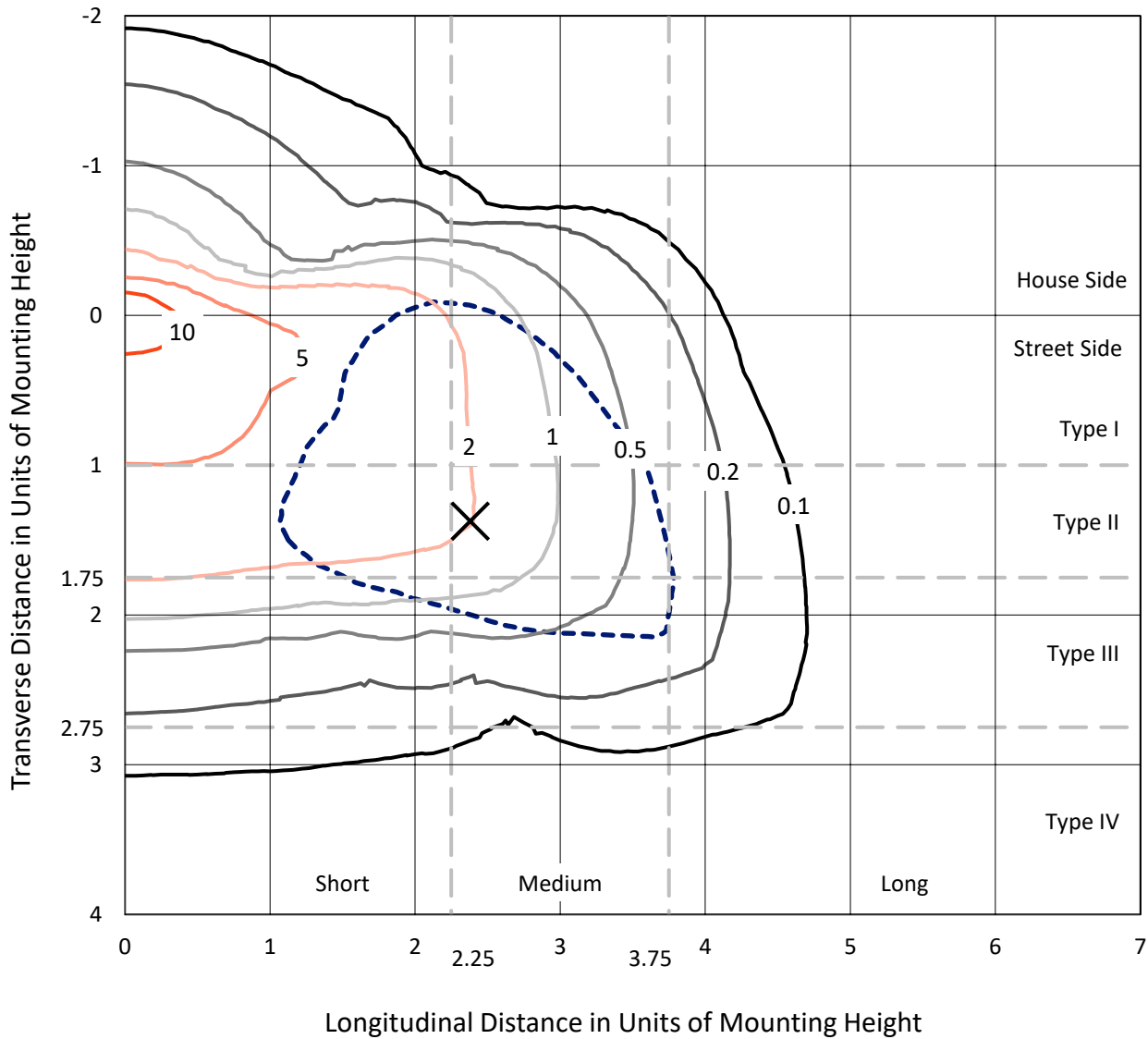
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

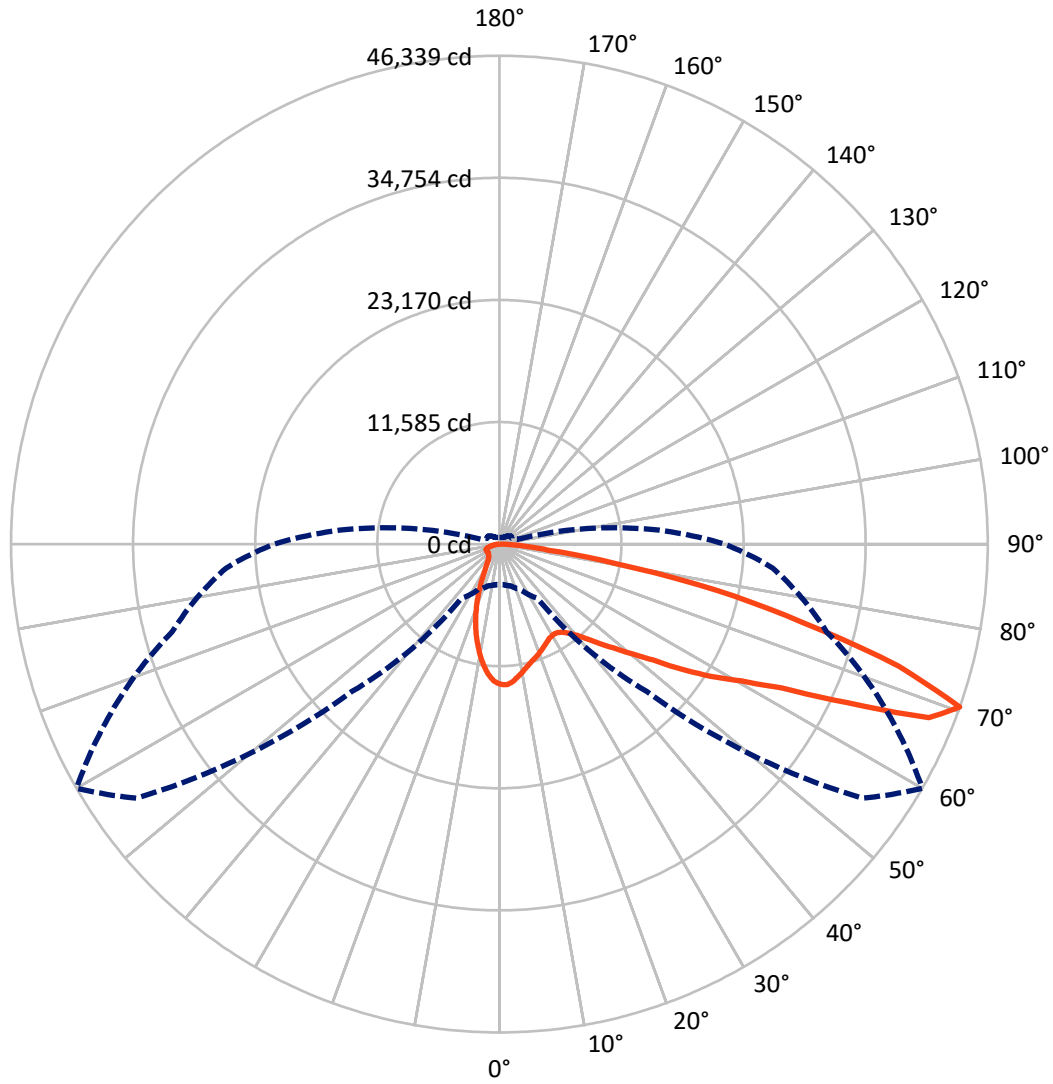
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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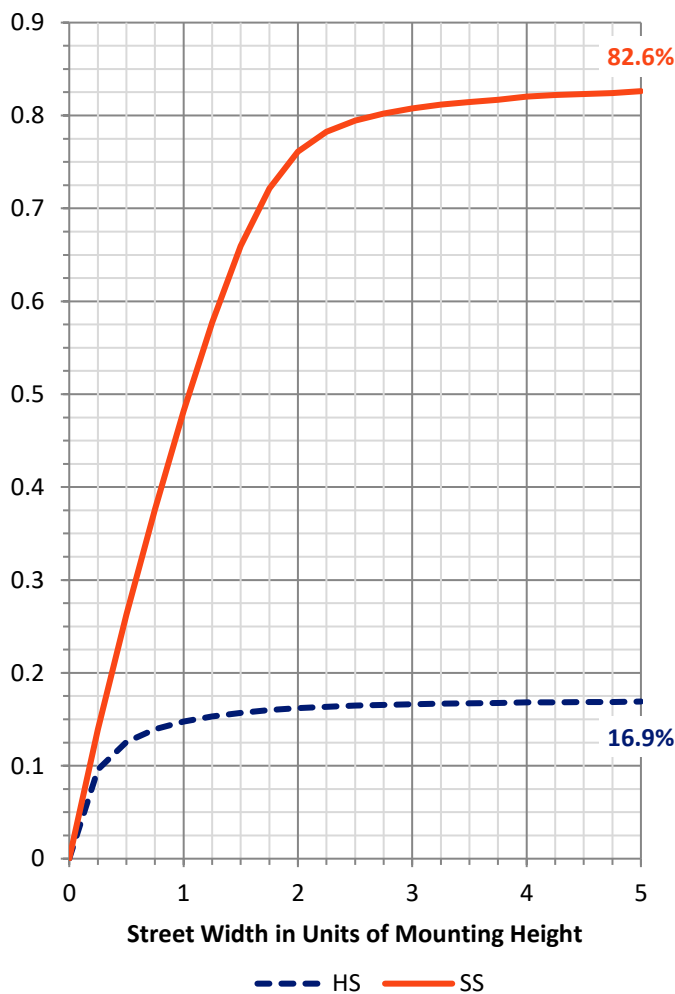
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8225.8	0.0	8225.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	39871.5	0.0	39871.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	48097.3	0.0	48097.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.2	2.4
10°-20°	2570.1	5.3
20°-30°	3291.4	6.8
30°-40°	4325.7	9.0
40°-50°	6275.9	13.0
50°-60°	9791.9	20.4
60°-70°	12819.5	26.7
70°-80°	7088.8	14.7
80°-90°	786.7	1.6
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°	48097.3	100.0
0°-180°	48097.3	100.0

Coefficient of Utilization



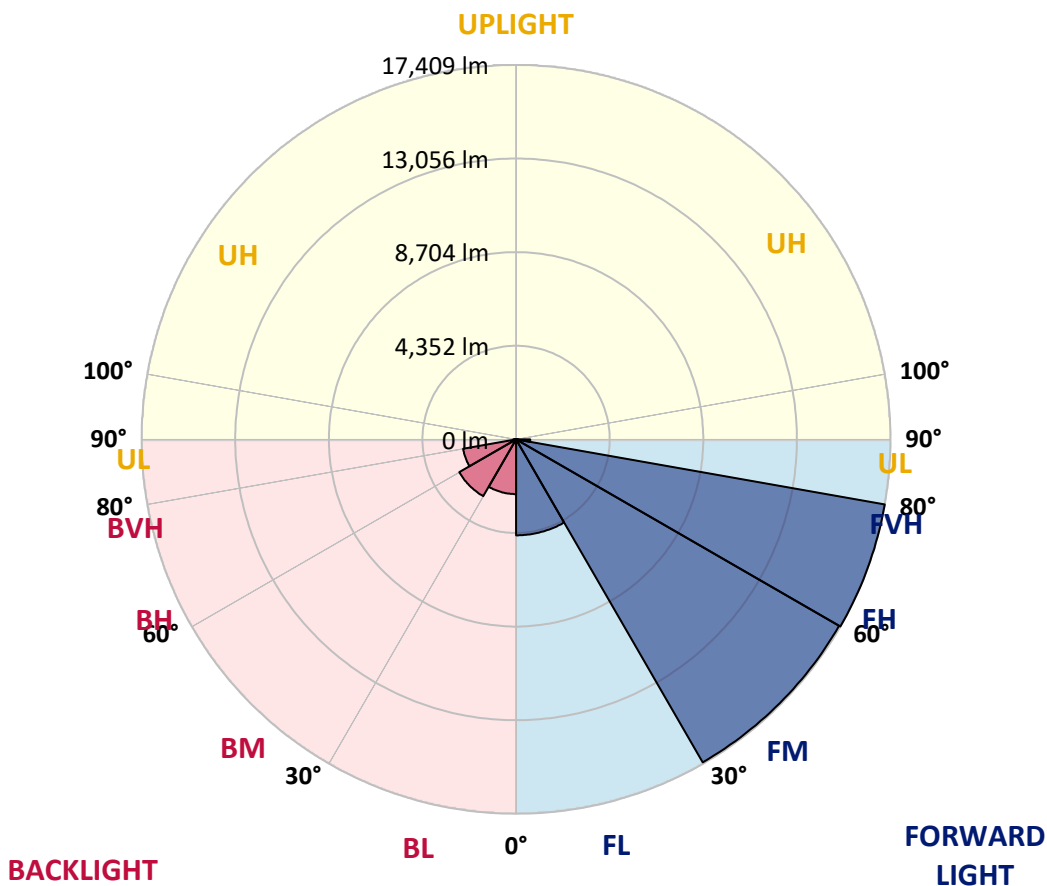
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4463.7	9.3			
FM (30°-60°)	17343.7	36.1			
FH (60°-80°)	17408.6	36.2			G5
FVH (80°-90°)	655.5	1.4			G4/750
BL (0°-30°)	2545.0	5.3	B4/5000		
BM (30°-60°)	3049.9	6.3	B3/5000		
BH (60°-80°)	2499.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	131.2	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1
2.5°	13122.6	13136.7	13175.4	13231.7	13288.0	13316.2	13386.6	13365.5	13351.4	13323.2	13288.0
5°	12542.0	12570.1	12605.3	12714.4	12837.6	12936.1	13094.5	13112.1	13119.1	13133.2	13076.9
7.5°	11803.0	11810.0	11894.5	12038.8	12200.6	12369.6	12633.5	12707.4	12770.7	12841.1	12795.4
10°	10986.6	11004.2	11067.5	11275.1	11553.1	11803.0	12158.4	12281.6	12415.3	12570.1	12506.8
12.5°	10317.9	10321.4	10423.5	10645.2	10947.8	11285.7	11729.1	11876.9	12052.8	12295.7	12239.3
15°	9786.6	9786.6	9881.6	10071.6	10420.0	10817.6	11345.5	11535.5	11774.8	12102.1	12003.6
17.5°	9364.3	9367.8	9427.6	9628.2	9937.9	10377.8	11004.2	11261.0	11525.0	11957.8	11810.0
20°	9142.6	9125.0	9135.5	9258.7	9522.6	9948.4	10662.8	10961.9	11317.3	11859.3	11634.1
22.5°	9132.0	9100.3	9054.6	9065.1	9220.0	9571.9	10296.8	10659.3	11106.2	11778.3	11454.6
25°	9311.5	9276.3	9195.3	9103.8	9089.8	9300.9	9951.9	10363.7	10888.0	11743.2	11282.2
27.5°	9614.1	9589.5	9483.9	9346.7	9202.4	9195.3	9691.5	10120.9	10729.7	11778.3	11159.0
30°	10015.3	9973.1	9906.2	9730.2	9512.1	9286.8	9589.5	9990.7	10624.1	11891.0	11106.2
32.5°	10469.3	10444.6	10381.3	10205.3	9973.1	9614.1	9670.4	10018.8	10624.1	12088.0	11116.8
35°	10951.4	10947.8	10947.8	10831.7	10574.8	10127.9	9990.7	10258.1	10786.0	12404.7	11229.4
37.5°	11419.4	11415.9	11528.5	11570.7	11278.6	10796.5	10536.1	10736.7	11141.4	12872.8	11507.4
40°	11799.5	11813.5	12059.9	12271.0	12109.1	11662.2	11296.2	11398.3	11718.5	13537.9	11993.0
42.5°	12183.0	12221.8	12591.3	12964.3	13027.6	12640.5	12271.0	12330.8	12545.5	14417.7	12717.9
45°	12601.8	12619.4	13136.7	13657.5	13963.7	13735.0	13432.3	13513.3	13562.5	15505.0	13798.3
47.5°	13006.5	13052.3	13720.9	14435.2	15015.9	14994.8	14825.9	14801.2	14811.8	16828.2	15075.7
50°	13559.0	13625.9	14410.6	15272.8	16124.4	16515.0	16564.3	16377.8	16300.4	18299.2	16666.3
52.5°	14607.7	14607.7	15311.5	16159.6	17303.3	18271.0	18601.8	18295.7	18049.3	19854.6	18355.5
55°	15920.3	15976.6	16536.1	17222.4	18672.2	20118.6	21237.6	20899.8	20203.0	21547.3	20125.6
57.5°	16504.5	16574.8	17461.7	18527.9	20463.4	22219.4	23771.4	23651.7	22634.7	23306.8	21962.6
60°	15448.7	15596.5	16817.7	18605.4	22085.7	25608.3	26702.7	26354.4	24901.0	25154.4	23954.4
62.5°	12886.9	13048.7	14403.6	16898.6	21860.5	29271.7	31323.3	30038.8	27730.3	27487.5	26607.7
65°	7689.2	7682.1	9311.5	12619.4	19083.9	30288.7	38635.9	36239.4	32101.0	30689.9	29338.5
67.5°	4888.0	4877.4	5218.8	6686.2	12700.3	27797.2	43337.4	43960.3	38037.7	33044.1	29563.8
70°	3856.9	3853.4	4099.7	4768.3	6281.6	19780.7	42028.3	46339.2	41623.6	32146.8	26030.6
72.5°	2811.7	2818.8	3198.8	3994.2	4845.8	9930.8	34033.0	39649.4	38284.0	28377.8	21132.1
75°	2019.9	2030.5	2259.2	3058.1	4469.2	5429.9	22631.2	29813.6	29127.4	22747.3	14537.3
77.5°	1284.5	1298.5	1499.1	2143.1	3610.6	4384.8	13720.9	21047.6	19379.6	12816.5	5169.5
80°	784.8	830.5	999.4	1597.7	2885.6	3290.3	6858.7	11088.6	9705.6	3515.6	1738.4
82.5°	404.7	439.9	601.8	988.9	1988.3	2889.2	3881.5	4659.3	3005.3	1471.0	925.5
85°	126.7	147.8	211.1	401.2	946.6	1791.2	2568.9	2315.6	1379.5	693.3	429.3
87.5°	31.7	31.7	35.2	35.2	38.7	80.9	496.2	524.3	366.0	218.2	176.0
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°	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1	13309.1
2.5°	13217.6	13133.2	13098.0	13094.5	13006.5	12879.8	12795.4	12735.5	12700.3	12693.3	12693.3
5°	12981.9	12872.8	12728.5	12619.4	12383.6	12144.3	11943.7	11831.1	11700.9	11683.3	11679.8
7.5°	12668.7	12510.3	12235.8	11929.7	11517.9	11120.3	10782.4	10553.7	10325.0	10282.7	10268.7
10°	12330.8	12116.2	11648.1	11109.7	10493.9	9899.2	9381.9	8977.2	8709.7	8519.7	8484.5
12.5°	11996.5	11711.5	11025.3	10222.9	9378.3	8565.4	7787.7	7126.1	6647.5	6369.5	6320.3
15°	11683.3	11285.7	10346.1	9322.0	8224.1	7112.1	6010.6	5151.9	4479.8	4240.5	4184.2
17.5°	11398.3	10902.1	9688.0	8389.5	7020.6	5567.2	4314.4	3550.7	3156.6	3037.0	3008.8
20°	11113.2	10508.0	9019.4	7407.7	5743.1	4113.8	3153.1	2794.1	2646.3	2600.6	2586.5
22.5°	10807.1	10075.1	8290.9	6439.9	4451.6	3079.2	2579.5	2421.1	2375.4	2378.9	2375.4
25°	10500.9	9635.2	7527.3	5387.7	3315.0	2498.5	2252.2	2192.4	2202.9	2234.6	2241.7
27.5°	10247.5	9244.6	6777.7	4233.4	2590.0	2150.2	2034.0	2030.5	2069.2	2111.4	2118.5
30°	10064.6	8896.2	6038.7	3255.1	2132.6	1910.9	1865.1	1886.2	1932.0	1963.6	1974.2
32.5°	9934.4	8597.1	5250.5	2558.4	1868.6	1741.9	1720.8	1741.9	1770.1	1801.8	1808.8
35°	9888.6	8378.9	4476.3	2086.8	1689.2	1618.8	1604.7	1615.3	1629.3	1646.9	1654.0
37.5°	9990.7	8269.8	3666.9	1815.8	1580.1	1537.8	1516.7	1509.7	1513.2	1520.2	1523.8
40°	10293.3	8319.1	3005.3	1657.5	1509.7	1471.0	1435.8	1421.7	1418.2	1425.2	1421.7
42.5°	10814.1	8526.7	2526.7	1566.0	1453.4	1397.1	1358.4	1344.3	1344.3	1361.9	1361.9
45°	11577.8	8934.9	2181.8	1499.1	1404.1	1333.7	1291.5	1284.5	1298.5	1326.7	1330.2
47.5°	12696.8	9533.2	1974.2	1449.9	1358.4	1277.4	1235.2	1231.7	1259.8	1305.6	1309.1
50°	14023.5	10395.4	1861.6	1414.7	1326.7	1231.7	1189.4	1193.0	1224.6	1273.9	1284.5
52.5°	15621.2	11570.7	1868.6	1400.6	1309.1	1203.5	1161.3	1154.3	1185.9	1235.2	1245.8
55°	17271.6	12999.5	2005.9	1404.1	1284.5	1189.4	1133.1	1108.5	1136.7	1171.9	1175.4
57.5°	19087.5	14611.2	2347.2	1397.1	1252.8	1175.4	1108.5	1052.2	1069.8	1090.9	1101.5
60°	21135.6	16508.0	3082.7	1411.1	1238.7	1143.7	1059.2	985.3	981.8	995.9	999.4
62.5°	23873.4	19087.5	3909.7	1435.8	1270.4	1105.0	985.3	907.9	893.8	900.9	904.4
65°	25967.3	20319.1	3649.3	1414.7	1337.2	1076.8	915.0	834.0	805.9	798.8	798.8
67.5°	25115.6	18689.8	2540.8	1358.4	1368.9	1080.4	858.7	756.6	721.4	703.8	700.3
70°	21371.3	15181.3	1766.6	1302.1	1333.7	1073.3	798.8	693.3	647.5	622.9	619.4
72.5°	16884.5	11591.8	1428.7	1189.4	1210.6	967.7	710.9	622.9	584.2	552.5	552.5
75°	10866.9	7073.3	1193.0	1059.2	988.9	753.1	615.8	556.0	517.3	485.6	485.6
77.5°	3656.3	2625.2	925.5	897.4	739.0	566.6	517.3	478.6	446.9	418.8	415.3
80°	1485.1	1245.8	679.2	679.2	517.3	432.8	404.7	387.1	366.0	330.8	330.8
82.5°	862.2	756.6	475.1	411.7	344.9	299.1	281.5	263.9	263.9	239.3	239.3
85°	415.3	418.8	285.0	253.4	197.1	172.4	165.4	154.8	151.3	137.2	133.7
87.5°	225.2	228.7	144.3	112.6	77.4	66.9	56.3	52.8	49.3	45.7	45.7
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)