

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: P643208

Luminaire Tested: GWS-SA6E-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643208  
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-SAGE-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

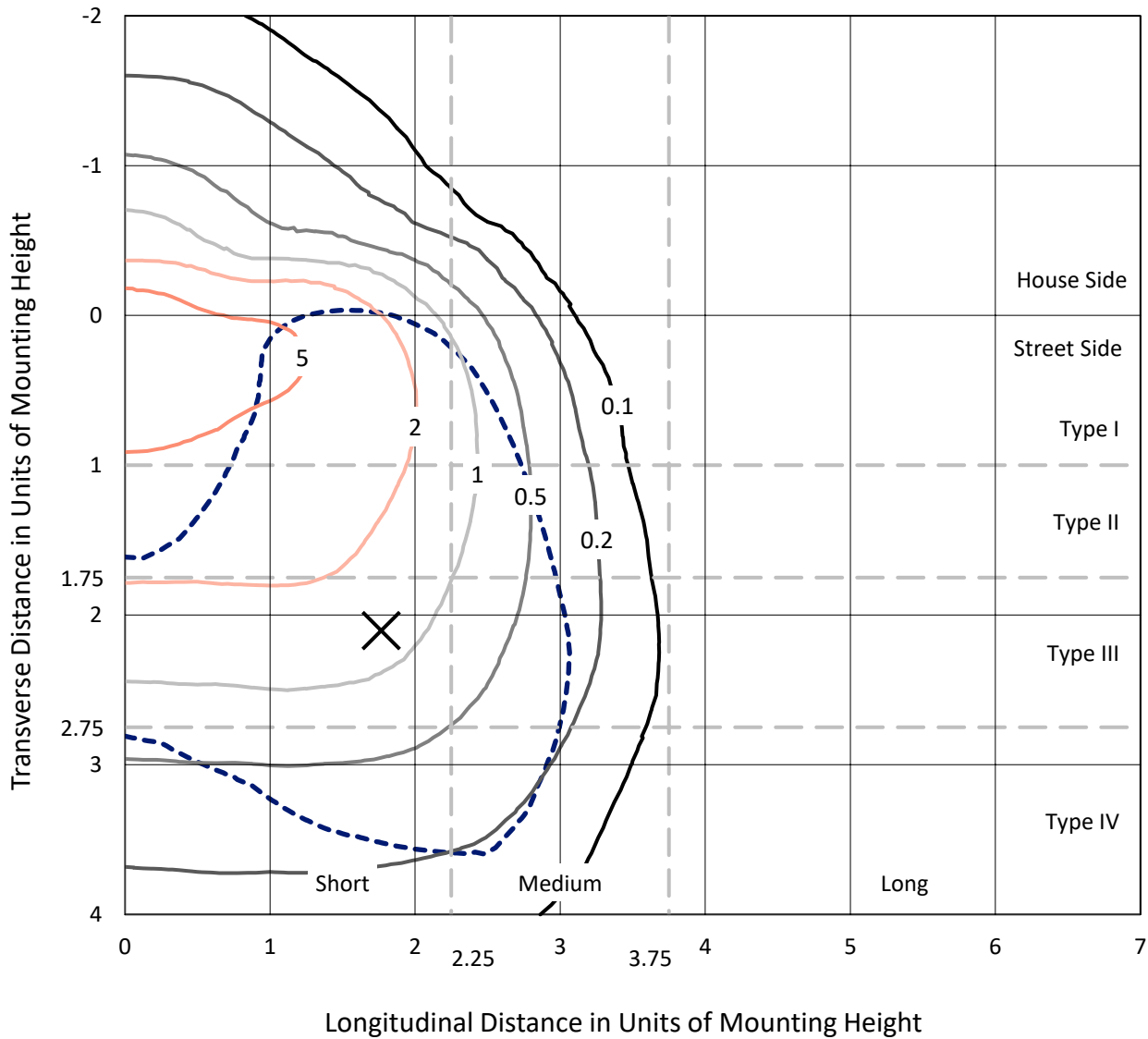
Lumens per Lamp: N/A  
Luminaire Lumens: 42991.5 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

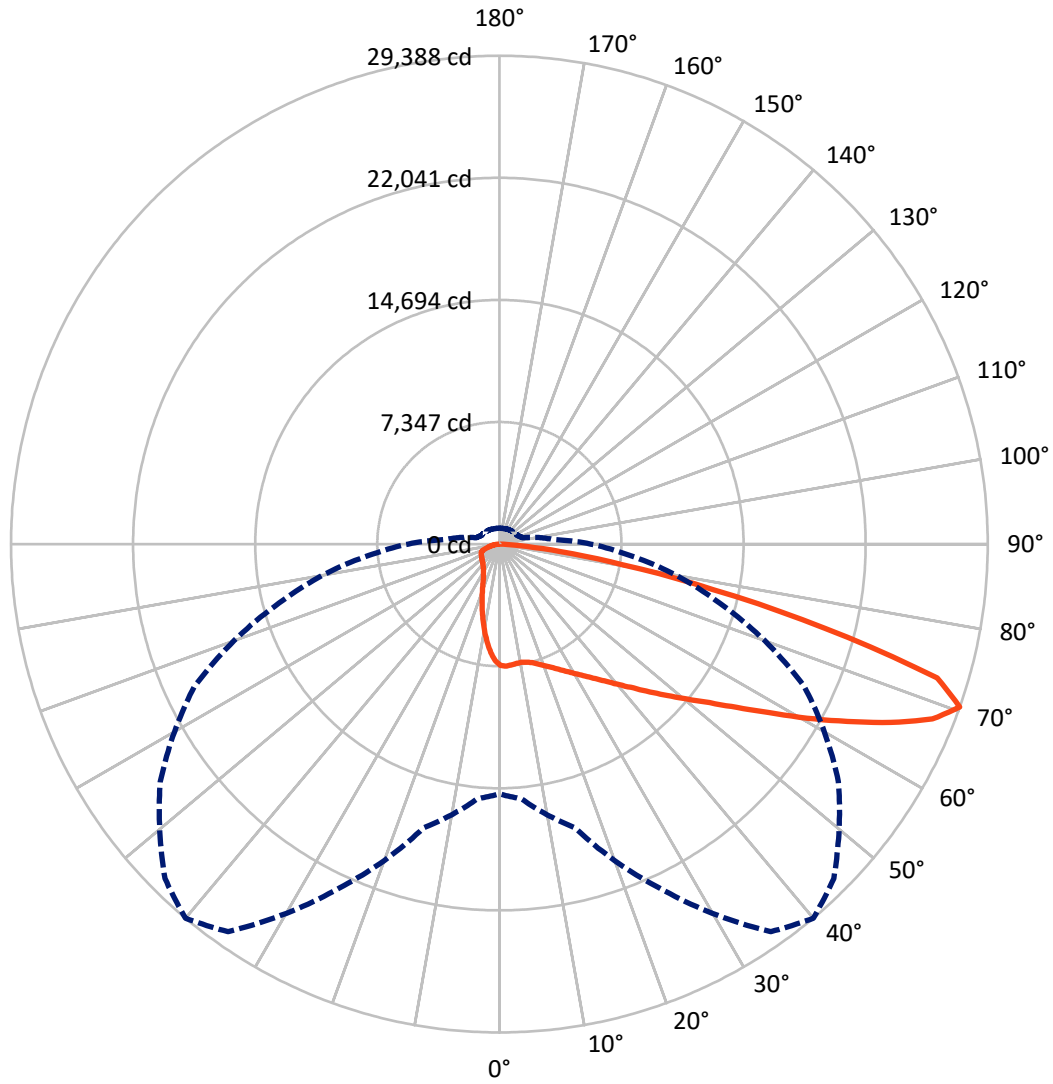
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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
<b>House Side</b>	Lumens	6621.8	0.0	6621.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	36369.7	0.0	36369.7
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	42991.5	0.0	42991.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.9	1.5
10°-20°	1681.1	3.9
20°-30°	2639.6	6.1
30°-40°	3968.7	9.2
40°-50°	6125.8	14.2
50°-60°	9097.3	21.2
60°-70°	11467.0	26.7
70°-80°	6631.3	15.4
80°-90°	735.9	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°	42991.5	100.0
0°-180°	42991.5	100.0

**Coefficient of Utilization**



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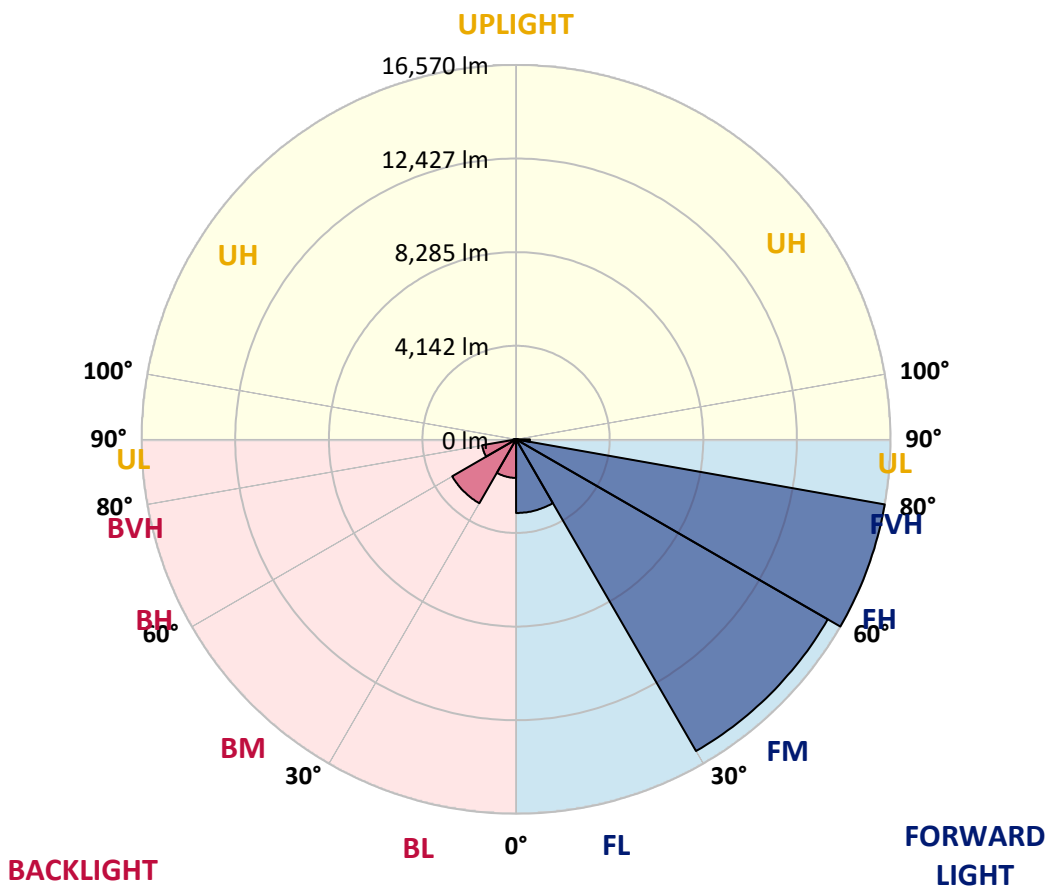
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3259.1	7.6			
FM (30°-60°)	15927.8	37.0			
FH (60°-80°)	16569.9	38.5			G5
FVH (80°-90°)	612.9	1.4			G4/750
BL (0°-30°)	1706.5	4.0	B3/2500		
BM (30°-60°)	3263.9	7.6	B3/5000		
BH (60°-80°)	1528.3	3.6	B3/2500		G3/2500
BVH (80°-90°)	123.0	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°	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4
2.5°	7345.4	7358.2	7367.8	7380.7	7374.3	7355.0	7371.0	7371.0	7335.7	7297.2	7261.9
5°	7355.0	7371.0	7367.8	7364.6	7339.0	7306.9	7306.9	7287.6	7226.6	7165.7	7107.9
7.5°	7335.7	7332.5	7329.3	7319.7	7290.8	7255.5	7249.1	7210.6	7130.4	7046.9	6963.5
10°	7249.1	7245.9	7255.5	7278.0	7271.6	7239.5	7239.5	7204.2	7111.1	7008.4	6899.3
12.5°	7178.5	7178.5	7217.0	7278.0	7300.4	7287.6	7290.8	7265.2	7159.3	7037.3	6909.0
15°	7188.1	7191.3	7274.8	7374.3	7416.0	7406.3	7409.6	7380.7	7261.9	7140.0	6966.7
17.5°	7252.3	7268.4	7412.8	7550.8	7605.3	7592.5	7570.0	7521.9	7387.1	7249.1	7037.3
20°	7387.1	7412.8	7598.9	7772.2	7836.4	7807.5	7769.0	7672.7	7525.1	7374.3	7114.3
22.5°	7653.4	7669.5	7874.9	8044.9	8096.3	8061.0	7984.0	7846.0	7675.9	7518.7	7207.4
25°	8028.9	8048.1	8243.9	8401.1	8388.3	8346.6	8240.7	8070.6	7868.4	7701.6	7342.2
27.5°	8474.9	8507.0	8699.6	8824.7	8741.3	8680.3	8561.6	8356.2	8128.4	7977.5	7547.5
30°	8962.7	8975.5	9139.2	9264.4	9136.0	9052.6	8908.2	8686.7	8481.4	8369.0	7855.6
32.5°	9434.4	9447.3	9588.5	9659.1	9524.3	9463.3	9338.2	9103.9	8959.5	8898.5	8314.5
35°	9931.8	9928.6	10044.1	10105.1	9967.1	9941.4	9813.1	9633.4	9607.7	9687.9	8985.2
37.5°	10429.2	10400.3	10461.3	10541.5	10464.5	10490.2	10406.8	10345.8	10445.3	10653.8	9877.3
40°	10827.1	10827.1	10891.3	10990.8	11016.5	11128.8	11080.6	11160.9	11481.8	11979.2	10981.2
42.5°	11180.1	11183.3	11318.1	11472.1	11658.3	11831.5	11870.0	12078.6	12742.9	13522.7	12367.4
45°	11549.2	11552.4	11735.3	11959.9	12354.6	12685.1	12762.1	13230.7	14180.5	15130.4	13872.5
47.5°	11975.9	11940.6	12194.2	12569.6	13131.2	13606.1	13805.1	14469.3	15669.5	16837.6	15290.8
50°	12457.3	12383.5	12665.9	13314.1	14007.2	14658.7	14992.4	15752.9	17267.6	18413.2	16625.8
52.5°	12999.6	12957.9	13253.1	14042.5	15101.5	15852.4	16304.9	17302.9	18820.7	19982.4	17684.7
55°	13673.5	13574.0	14000.8	15005.2	16385.1	17341.4	17877.3	18836.8	20518.3	21407.2	18493.4
57.5°	14411.6	14302.5	14873.7	16208.6	18053.8	19103.1	19773.8	20563.2	22116.4	22498.2	18968.3
60°	15207.4	15172.1	15849.2	17620.6	20043.3	21262.8	21747.3	22462.9	23505.8	23130.4	18849.6
62.5°	15935.8	15923.0	16908.2	19151.2	22151.7	23493.0	23878.1	24067.4	24507.0	23088.7	17906.2
65°	16702.8	16811.9	18143.6	20925.8	24568.0	25883.7	26044.2	25562.8	24844.0	21994.4	15974.3
67.5°	16799.1	17010.9	18920.2	22588.1	26859.2	28101.1	27972.8	26130.8	23849.2	18949.1	12521.5
70°	15024.5	15393.5	17681.5	22841.6	28473.4	29387.9	28460.5	24908.2	20239.1	13728.1	7874.9
72.5°	12553.6	12871.3	14892.9	19478.6	26390.7	27555.6	26300.9	21083.1	14302.5	7874.9	4011.2
75°	9771.4	10140.4	12004.8	15483.4	19757.7	20223.0	19594.1	14703.6	7862.0	3247.5	1822.7
77.5°	5962.3	6228.6	7679.1	10490.2	13824.3	13128.0	11125.6	8243.9	3449.7	1556.4	1126.4
80°	2637.8	2801.4	3783.4	5635.0	7987.2	7550.8	5952.7	3520.3	1886.9	988.4	786.2
82.5°	1415.2	1521.1	1864.4	2230.2	3507.4	3667.9	2974.7	2028.1	1014.0	564.8	449.3
85°	622.5	683.5	847.2	808.7	1152.0	1132.8	1142.4	1392.7	484.6	259.9	292.0
87.5°	0.0	0.0	0.0	0.0	3.2	3.2	35.3	186.1	48.1	77.0	67.4
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°	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4	7300.4
2.5°	7223.4	7165.7	7149.6	7130.4	7095.1	7034.1	6989.2	6937.8	6915.4	6889.7	6892.9
5°	7043.7	6973.1	6905.7	6819.1	6710.0	6588.1	6504.6	6408.4	6357.0	6308.9	6321.7
7.5°	6889.7	6780.6	6642.6	6459.7	6263.9	6045.7	5869.2	5731.3	5638.2	5574.0	5606.1
10°	6793.4	6665.1	6424.4	6126.0	5795.4	5461.7	5208.2	4970.7	4823.1	4707.6	4701.2
12.5°	6774.2	6607.3	6257.5	5824.3	5346.2	4900.1	4527.9	4207.0	4011.2	3866.8	3921.4
15°	6793.4	6581.6	6113.1	5545.1	4941.8	4338.6	3876.5	3507.4	3273.2	3141.6	3132.0
17.5°	6815.9	6556.0	5949.5	5243.5	4518.3	3828.3	3292.4	2900.9	2660.3	2528.7	2531.9
20°	6835.1	6517.5	5756.9	4913.0	4088.3	3353.4	2798.2	2426.0	2211.0	2114.7	2130.8
22.5°	6867.2	6478.9	5551.6	4560.0	3648.6	2894.5	2406.7	2105.1	1976.7	1912.6	1915.8
25°	6928.2	6456.5	5339.8	4174.9	3215.4	2528.7	2137.2	1935.0	1854.8	1816.3	1813.1
27.5°	7053.4	6475.7	5118.3	3802.7	2823.9	2249.5	1963.9	1832.3	1777.8	1752.1	1748.9
30°	7261.9	6552.8	4925.8	3424.0	2487.0	2031.3	1845.2	1764.9	1732.9	1710.4	1707.2
32.5°	7579.6	6697.2	4717.2	3071.0	2214.2	1870.8	1752.1	1710.4	1687.9	1675.1	1675.1
35°	8061.0	6960.3	4511.8	2762.9	2002.4	1745.7	1678.3	1662.3	1643.0	1636.6	1643.0
37.5°	8754.1	7380.7	4325.7	2493.4	1851.6	1649.4	1598.1	1604.5	1588.4	1598.1	1607.7
40°	9633.4	7942.2	4168.5	2272.0	1739.3	1578.8	1527.5	1549.9	1540.3	1549.9	1566.0
42.5°	10746.9	8638.6	4049.7	2098.7	1659.0	1521.1	1472.9	1495.4	1489.0	1501.8	1517.9
45°	11988.8	9556.4	3995.2	1976.7	1601.3	1479.3	1428.0	1444.0	1437.6	1447.3	1463.3
47.5°	13179.3	10390.7	4043.3	1906.1	1553.2	1444.0	1389.5	1395.9	1392.7	1389.5	1399.1
50°	14206.2	11055.0	4181.3	1883.7	1521.1	1408.7	1357.4	1360.6	1351.0	1331.7	1338.1
52.5°	15043.7	11587.7	4264.7	1883.7	1505.0	1370.2	1322.1	1325.3	1306.1	1280.4	1283.6
55°	15595.7	11802.7	4197.4	1880.5	1498.6	1338.1	1286.8	1290.0	1270.8	1238.7	1241.9
57.5°	15752.9	11594.1	3915.0	1845.2	1492.2	1312.5	1251.5	1257.9	1245.1	1209.8	1209.8
60°	15313.3	10830.3	3398.3	1764.9	1476.1	1296.4	1225.8	1235.5	1229.0	1193.7	1193.7
62.5°	14161.3	9472.9	2782.2	1643.0	1431.2	1277.2	1203.4	1222.6	1238.7	1219.4	1216.2
65°	12004.8	7589.3	2262.3	1508.2	1373.4	1245.1	1171.3	1219.4	1254.7	1280.4	1280.4
67.5°	9007.6	5432.8	1845.2	1367.0	1286.8	1180.9	1129.6	1174.5	1200.2	1216.2	1225.8
70°	5490.6	3196.2	1453.7	1203.4	1161.7	1084.6	1046.1	1001.2	965.9	959.5	962.7
72.5°	2685.9	1829.1	1180.9	1023.7	991.6	921.0	834.3	815.1	799.0	789.4	786.2
75°	1479.3	1274.0	975.5	850.4	792.6	706.0	686.7	654.6	648.2	635.4	638.6
77.5°	1046.1	1004.4	805.5	689.9	603.3	558.4	568.0	545.5	545.5	535.9	532.7
80°	786.2	789.4	619.3	503.8	446.0	430.0	439.6	439.6	433.2	430.0	426.8
82.5°	497.4	561.6	417.2	324.1	317.7	320.9	317.7	314.5	320.9	311.3	308.1
85°	343.4	404.3	253.5	192.5	192.5	189.3	195.7	192.5	199.0	189.3	189.3
87.5°	77.0	179.7	93.1	57.8	61.0	57.8	61.0	64.2	70.6	73.8	73.8
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)