

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: P640841

Luminaire Tested: GWS-SA5E-760-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640841  
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-SA5E-760-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

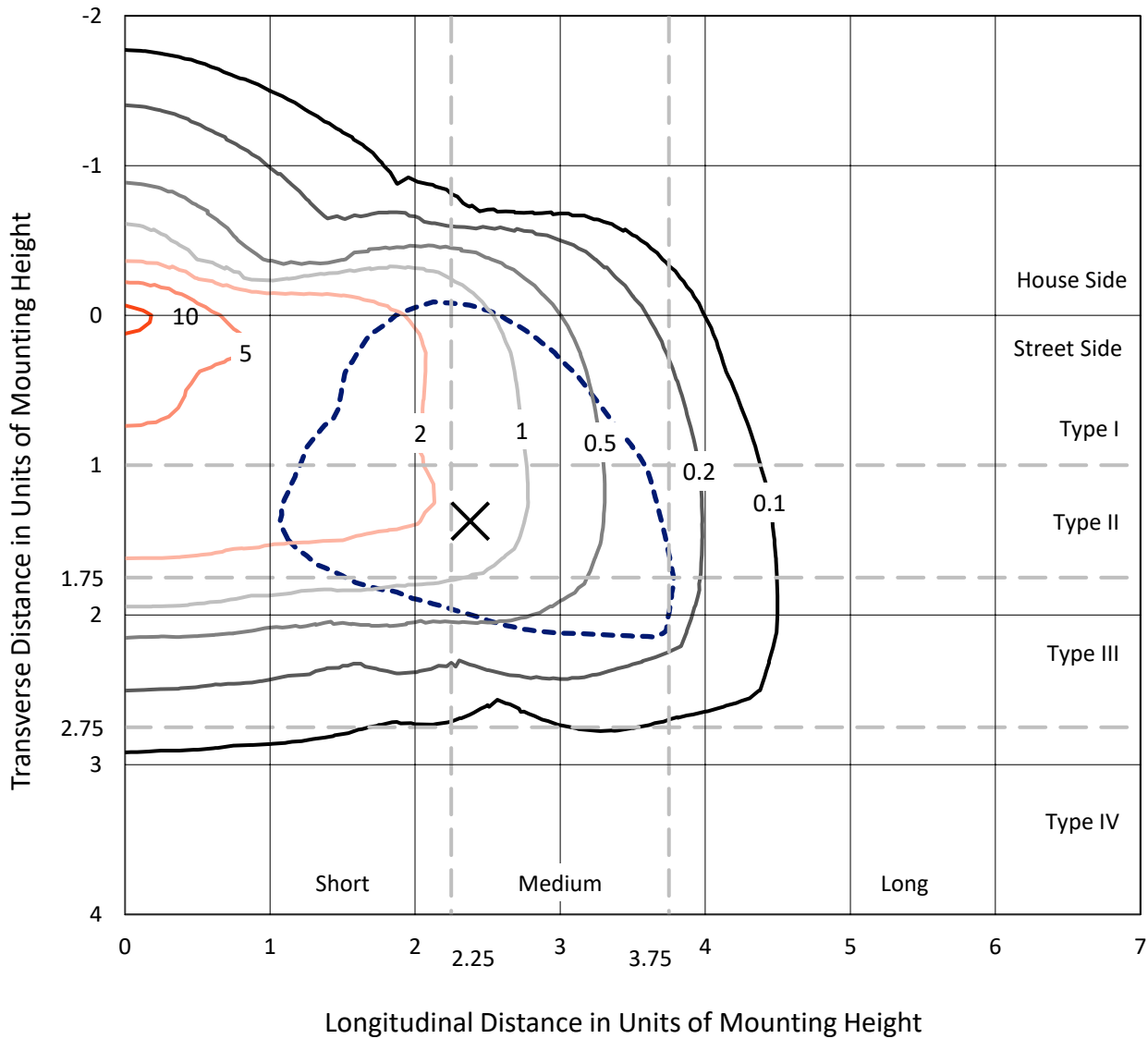
Lumens per Lamp: N/A  
Luminaire Lumens: 37110.3 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

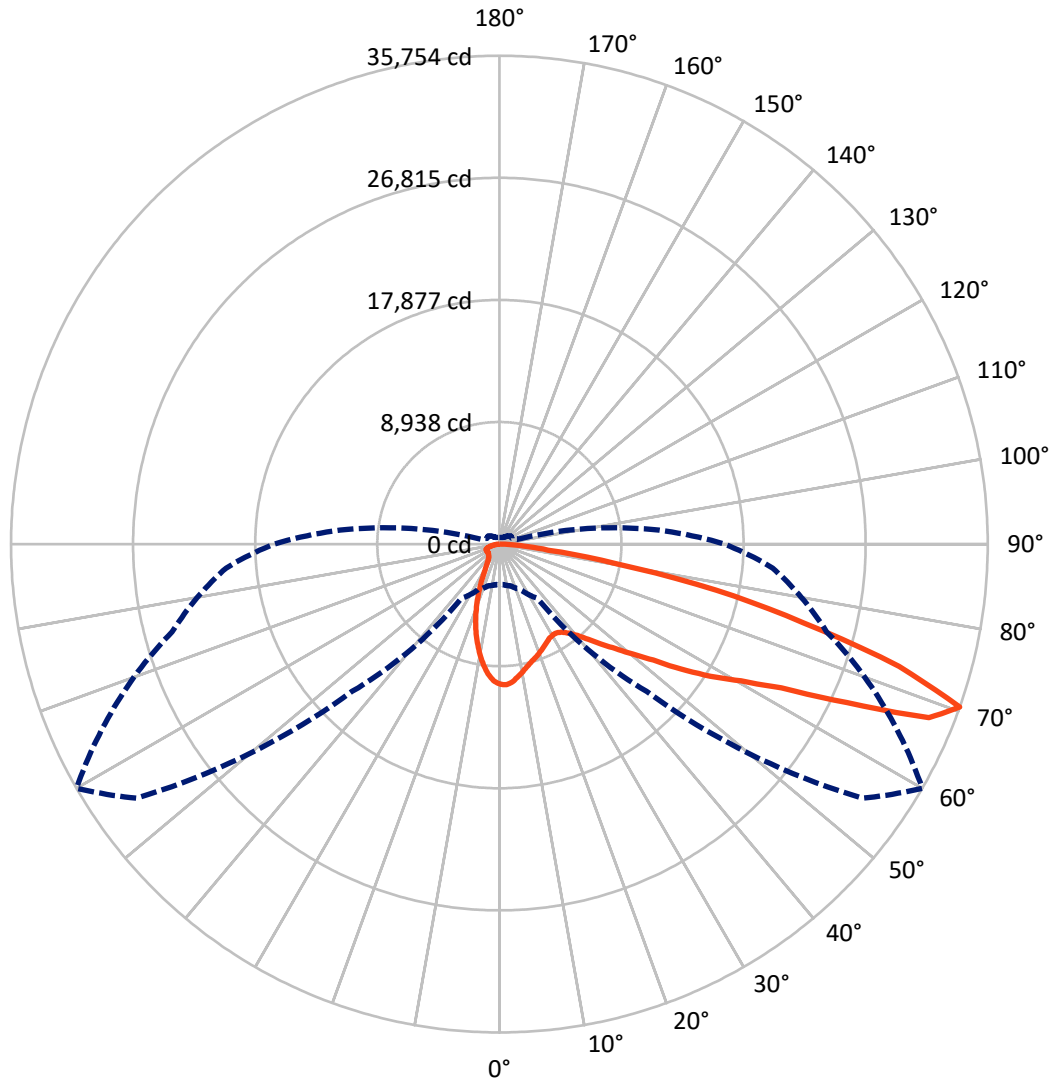
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 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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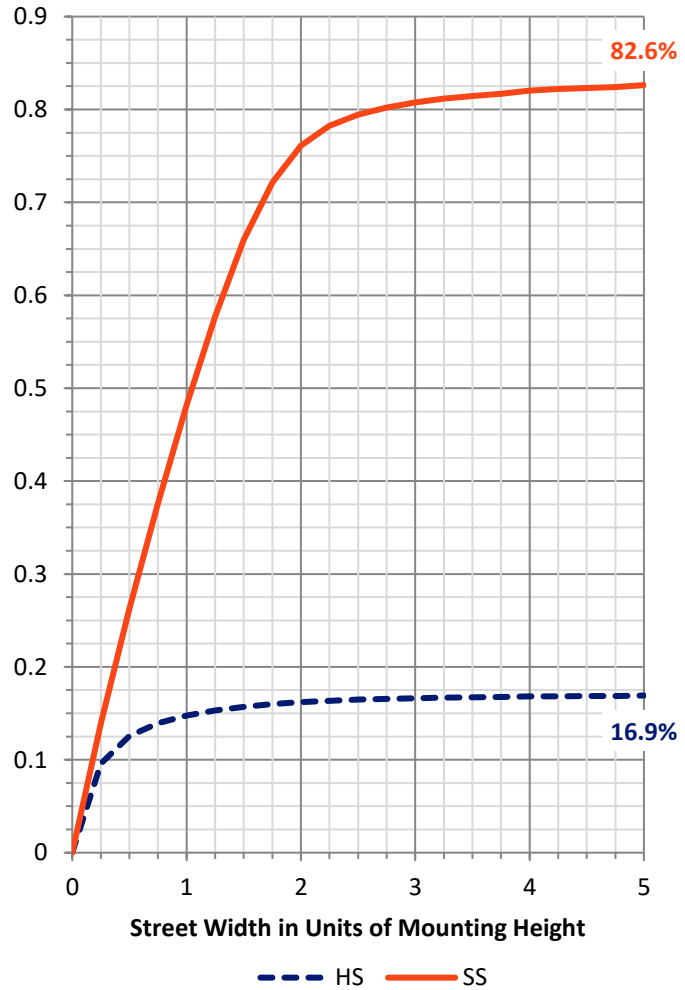
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6346.7	0.0	6346.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	30763.6	0.0	30763.6
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	37110.3	0.0	37110.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	885.1	2.4
10°-20°	1983.0	5.3
20°-30°	2539.6	6.8
30°-40°	3337.6	9.0
40°-50°	4842.3	13.0
50°-60°	7555.1	20.4
60°-70°	9891.2	26.7
70°-80°	5469.5	14.7
80°-90°	607.0	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°	37110.3	100.0
0°-180°	37110.3	100.0

**Coefficient of Utilization**



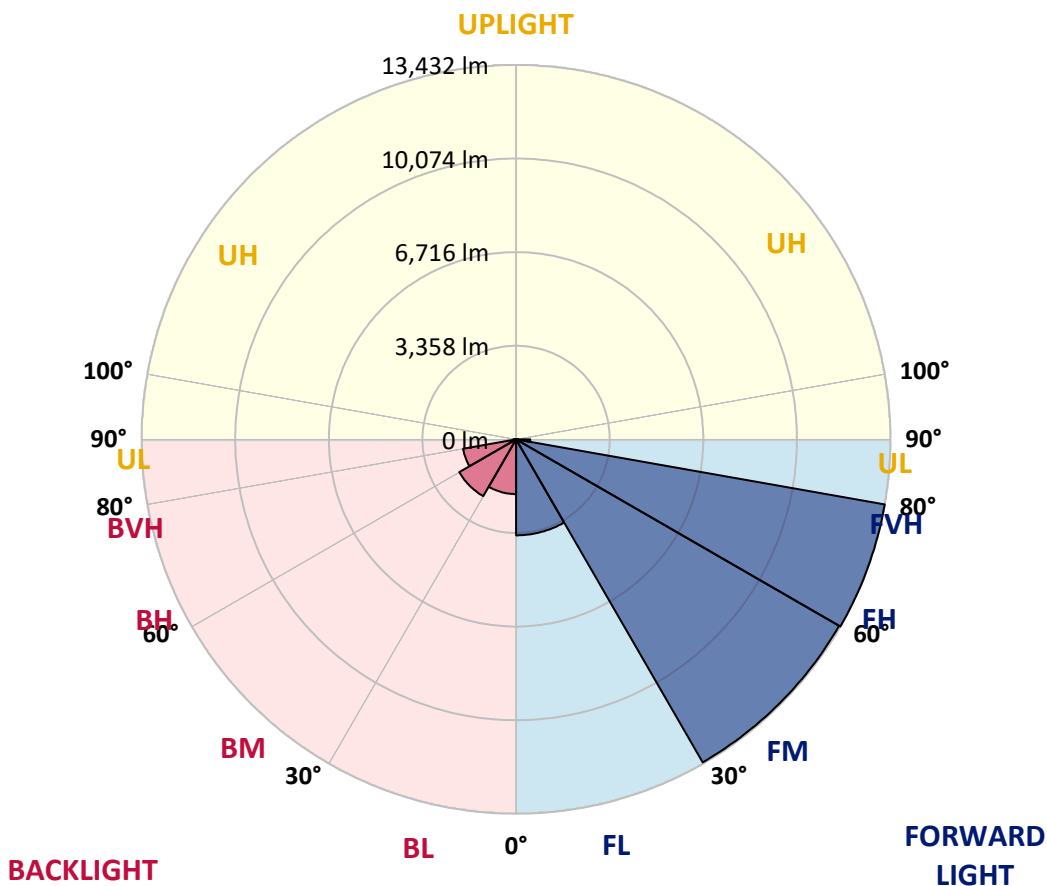
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3444.1	9.3			
FM (30°-60°)	13381.8	36.1			
FH (60°-80°)	13431.9	36.2			G5
FVH (80°-90°)	505.8	1.4			G4/750
BL (0°-30°)	1963.6	5.3	B3/2500		
BM (30°-60°)	2353.2	6.3	B2/2500		
BH (60°-80°)	1928.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	101.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9
2.5°	10125.0	10135.9	10165.7	10209.2	10252.6	10274.3	10328.6	10312.3	10301.5	10279.8	10252.6
5°	9677.0	9698.7	9725.9	9810.0	9905.1	9981.1	10103.3	10116.8	10122.3	10133.1	10089.7
7.5°	9106.8	9112.2	9177.4	9288.7	9413.6	9543.9	9747.6	9804.6	9853.5	9907.8	9872.5
10°	8476.9	8490.4	8539.3	8699.5	8914.0	9106.8	9381.0	9476.1	9579.2	9698.7	9649.8
12.5°	7961.0	7963.7	8042.4	8213.5	8447.0	8707.7	9049.8	9163.8	9299.6	9486.9	9443.5
15°	7551.0	7551.0	7624.3	7770.9	8039.7	8346.5	8753.8	8900.4	9085.1	9337.6	9261.6
17.5°	7225.2	7227.9	7274.0	7428.8	7667.7	8007.1	8490.4	8688.7	8892.3	9226.3	9112.2
20°	7054.1	7040.5	7048.7	7143.7	7347.3	7675.9	8227.1	8457.9	8732.1	9150.2	8976.5
22.5°	7046.0	7021.5	6986.2	6994.4	7113.8	7385.4	7944.7	8224.4	8569.2	9087.8	8838.0
25°	7184.4	7157.3	7094.8	7024.2	7013.4	7176.3	7678.6	7996.3	8400.8	9060.6	8704.9
27.5°	7417.9	7398.9	7317.5	7211.6	7100.3	7094.8	7477.7	7808.9	8278.7	9087.8	8609.9
30°	7727.5	7694.9	7643.3	7507.5	7339.2	7165.4	7398.9	7708.5	8197.2	9174.7	8569.2
32.5°	8077.7	8058.7	8009.9	7874.1	7694.9	7417.9	7461.4	7730.2	8197.2	9326.7	8577.3
35°	8449.7	8447.0	8447.0	8357.4	8159.2	7814.4	7708.5	7914.8	8322.1	9571.1	8664.2
37.5°	8810.8	8808.1	8895.0	8927.6	8702.2	8330.2	8129.3	8284.1	8596.3	9932.2	8878.7
40°	9104.1	9114.9	9305.0	9467.9	9343.0	8998.2	8715.8	8794.5	9041.6	10445.4	9253.4
42.5°	9400.0	9429.9	9715.0	10002.8	10051.7	9753.0	9467.9	9514.1	9679.7	11124.2	9812.7
45°	9723.1	9736.7	10135.9	10537.7	10773.9	10597.4	10363.9	10426.4	10464.4	11963.2	10646.3
47.5°	10035.4	10070.7	10586.6	11137.8	11585.8	11569.5	11439.2	11420.1	11428.3	12984.1	11631.9
50°	10461.7	10513.3	11118.8	11784.0	12441.1	12742.5	12780.5	12636.6	12576.8	14119.1	12859.2
52.5°	11270.8	11270.8	11813.9	12468.2	13350.7	14097.3	14352.6	14116.3	13926.3	15319.2	14162.5
55°	12283.6	12327.0	12758.7	13288.2	14406.9	15522.8	16386.3	16125.6	15588.0	16625.2	15528.2
57.5°	12734.3	12788.6	13472.8	14295.5	15788.9	17143.8	18341.2	18248.9	17464.2	17982.8	16945.6
60°	11919.7	12033.8	12976.0	14355.3	17040.6	19758.5	20603.0	20334.2	19212.8	19408.3	18482.4
62.5°	9943.1	10068.0	11113.3	13038.4	16866.8	22585.1	24168.0	23177.0	21395.8	21208.5	20529.7
65°	5932.7	5927.3	7184.4	9736.7	14724.5	23369.8	29810.2	27961.2	24768.1	23679.3	22636.7
67.5°	3771.4	3763.3	4026.6	5158.9	9799.2	21447.4	33437.7	33918.3	29348.6	25495.8	22810.4
70°	2975.9	2973.1	3163.2	3679.1	4846.6	15262.2	32427.7	35753.8	32115.4	24803.4	20084.4
72.5°	2169.4	2174.9	2468.1	3081.8	3738.8	7662.3	26258.7	30592.2	29538.7	21895.4	16304.8
75°	1558.5	1566.7	1743.2	2359.5	3448.3	4189.6	17461.5	23003.2	22473.7	17551.1	11216.5
77.5°	991.0	1001.9	1156.7	1653.6	2785.8	3383.1	10586.6	16239.6	14952.6	9888.8	3988.6
80°	605.5	640.8	771.1	1232.7	2226.5	2538.7	5291.9	8555.6	7488.5	2712.5	1341.3
82.5°	312.2	339.4	464.3	763.0	1534.1	2229.2	2994.9	3594.9	2318.8	1135.0	714.1
85°	97.7	114.0	162.9	309.5	730.4	1382.0	1982.1	1786.6	1064.4	534.9	331.3
87.5°	24.4	24.4	27.2	27.2	29.9	62.4	382.8	404.6	282.4	168.3	135.8
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°	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9	10268.9
2.5°	10198.3	10133.1	10106.0	10103.3	10035.4	9937.6	9872.5	9826.3	9799.2	9793.7	9793.7
5°	10016.4	9932.2	9820.9	9736.7	9554.8	9370.2	9215.4	9128.5	9028.1	9014.5	9011.8
7.5°	9774.7	9652.5	9440.8	9204.5	8886.9	8580.0	8319.4	8142.9	7966.4	7933.8	7923.0
10°	9514.1	9348.4	8987.3	8571.9	8096.7	7637.9	7238.7	6926.5	6720.1	6573.5	6546.4
12.5°	9256.1	9036.2	8506.7	7887.7	7236.0	6608.8	6008.7	5498.3	5129.0	4914.5	4876.5
15°	9014.5	8707.7	7982.7	7192.6	6345.4	5487.4	4637.6	3975.1	3456.5	3271.8	3228.4
17.5°	8794.5	8411.7	7475.0	6473.0	5416.8	4295.5	3328.8	2739.6	2435.5	2343.2	2321.5
20°	8574.6	8107.6	6959.1	5715.5	4431.2	3174.1	2432.8	2155.9	2041.8	2006.5	1995.7
22.5°	8338.4	7773.6	6397.0	4968.8	3434.7	2375.8	1990.2	1868.1	1832.8	1835.5	1832.8
25°	8102.2	7434.2	5807.8	4157.0	2557.7	1927.8	1737.7	1691.6	1699.7	1724.2	1729.6
27.5°	7906.7	7132.8	5229.5	3266.4	1998.4	1659.0	1569.4	1566.7	1596.5	1629.1	1634.6
30°	7765.5	6864.0	4659.3	2511.6	1645.4	1474.4	1439.1	1455.3	1490.6	1515.1	1523.2
32.5°	7665.0	6633.2	4051.1	1974.0	1441.8	1344.0	1327.7	1344.0	1365.7	1390.2	1395.6
35°	7629.7	6464.9	3453.7	1610.1	1303.3	1249.0	1238.1	1246.3	1257.1	1270.7	1276.1
37.5°	7708.5	6380.7	2829.2	1401.0	1219.1	1186.5	1170.3	1164.8	1167.5	1173.0	1175.7
40°	7942.0	6418.7	2318.8	1278.9	1164.8	1135.0	1107.8	1096.9	1094.2	1099.7	1096.9
42.5°	8343.8	6578.9	1949.5	1208.3	1121.4	1077.9	1048.1	1037.2	1037.2	1050.8	1050.8
45°	8933.0	6893.9	1683.4	1156.7	1083.4	1029.1	996.5	991.0	1001.9	1023.6	1026.3
47.5°	9796.5	7355.5	1523.2	1118.7	1048.1	985.6	953.0	950.3	972.0	1007.3	1010.1
50°	10820.1	8020.7	1436.3	1091.5	1023.6	950.3	917.7	920.5	944.9	982.9	991.0
52.5°	12052.8	8927.6	1441.8	1080.7	1010.1	928.6	896.0	890.6	915.0	953.0	961.2
55°	13326.2	10030.0	1547.7	1083.4	991.0	917.7	874.3	855.3	877.0	904.2	906.9
57.5°	14727.3	11273.5	1811.0	1077.9	966.6	906.9	855.3	811.8	825.4	841.7	849.9
60°	16307.5	12737.0	2378.5	1088.8	955.8	882.4	817.3	760.3	757.5	768.4	771.1
62.5°	18419.9	14727.3	3016.6	1107.8	980.2	852.6	760.3	700.5	689.7	695.1	697.8
65°	20035.5	15677.6	2815.7	1091.5	1031.8	830.9	706.0	643.5	621.8	616.4	616.4
67.5°	19378.4	14420.4	1960.4	1048.1	1056.2	833.6	662.5	583.8	556.6	543.0	540.3
70°	16489.4	11713.4	1363.0	1004.6	1029.1	828.1	616.4	534.9	499.6	480.6	477.9
72.5°	13027.5	8943.9	1102.4	917.7	934.0	746.7	548.5	480.6	450.7	426.3	426.3
75°	8384.5	5457.6	920.5	817.3	763.0	581.1	475.2	429.0	399.1	374.7	374.7
77.5°	2821.1	2025.5	714.1	692.4	570.2	437.1	399.1	369.3	344.8	323.1	320.4
80°	1145.8	961.2	524.0	524.0	399.1	334.0	312.2	298.7	282.4	255.2	255.2
82.5°	665.2	583.8	366.6	317.7	266.1	230.8	217.2	203.6	203.6	184.6	184.6
85°	320.4	323.1	219.9	195.5	152.1	133.0	127.6	119.5	116.8	105.9	103.2
87.5°	173.8	176.5	111.3	86.9	59.7	51.6	43.4	40.7	38.0	35.3	35.3
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)