

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: P633266

Luminaire Tested: GWS-SA2E-735-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-735-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

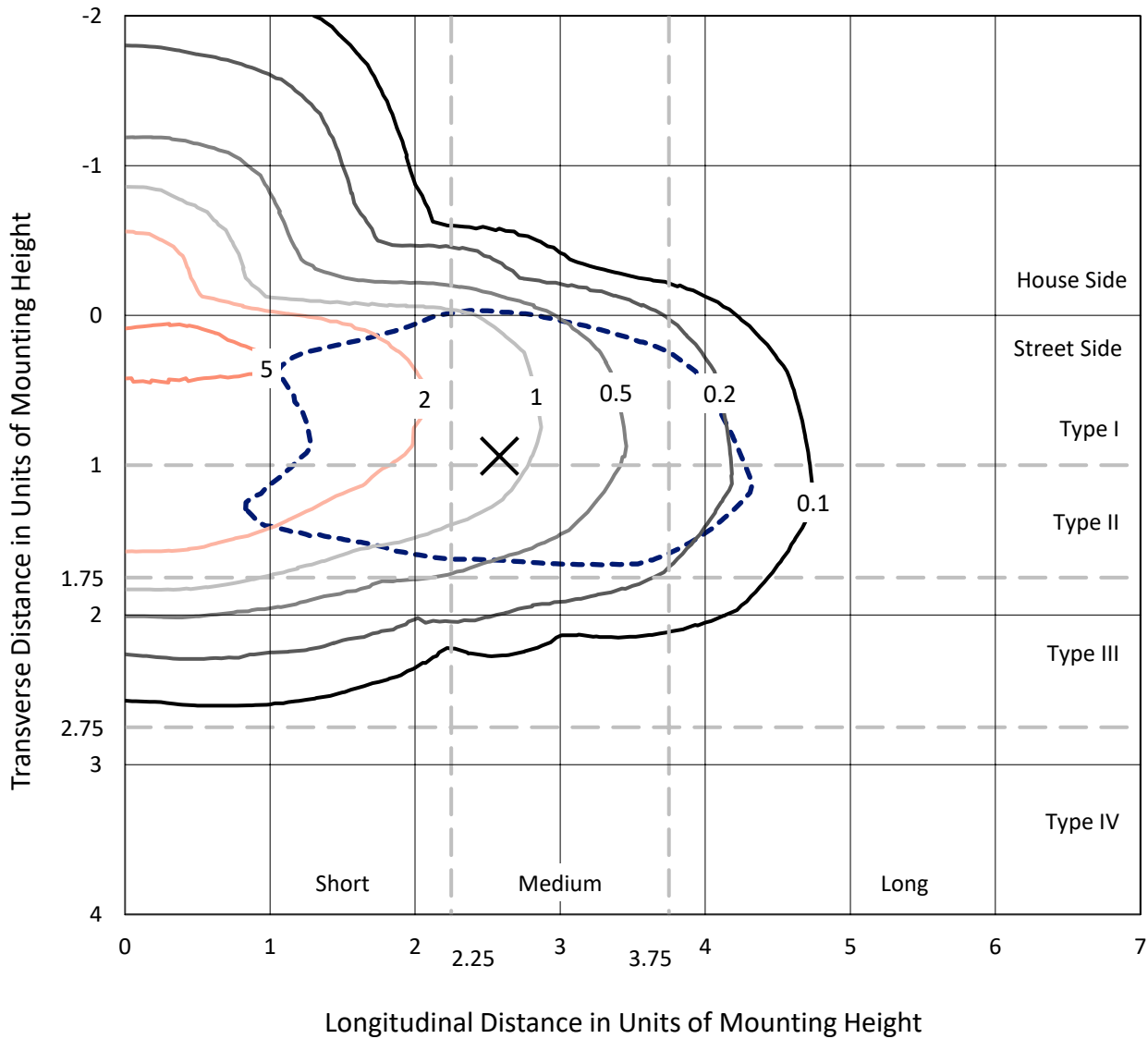
Lumens per Lamp: N/A  
Luminaire Lumens: 14278.1 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

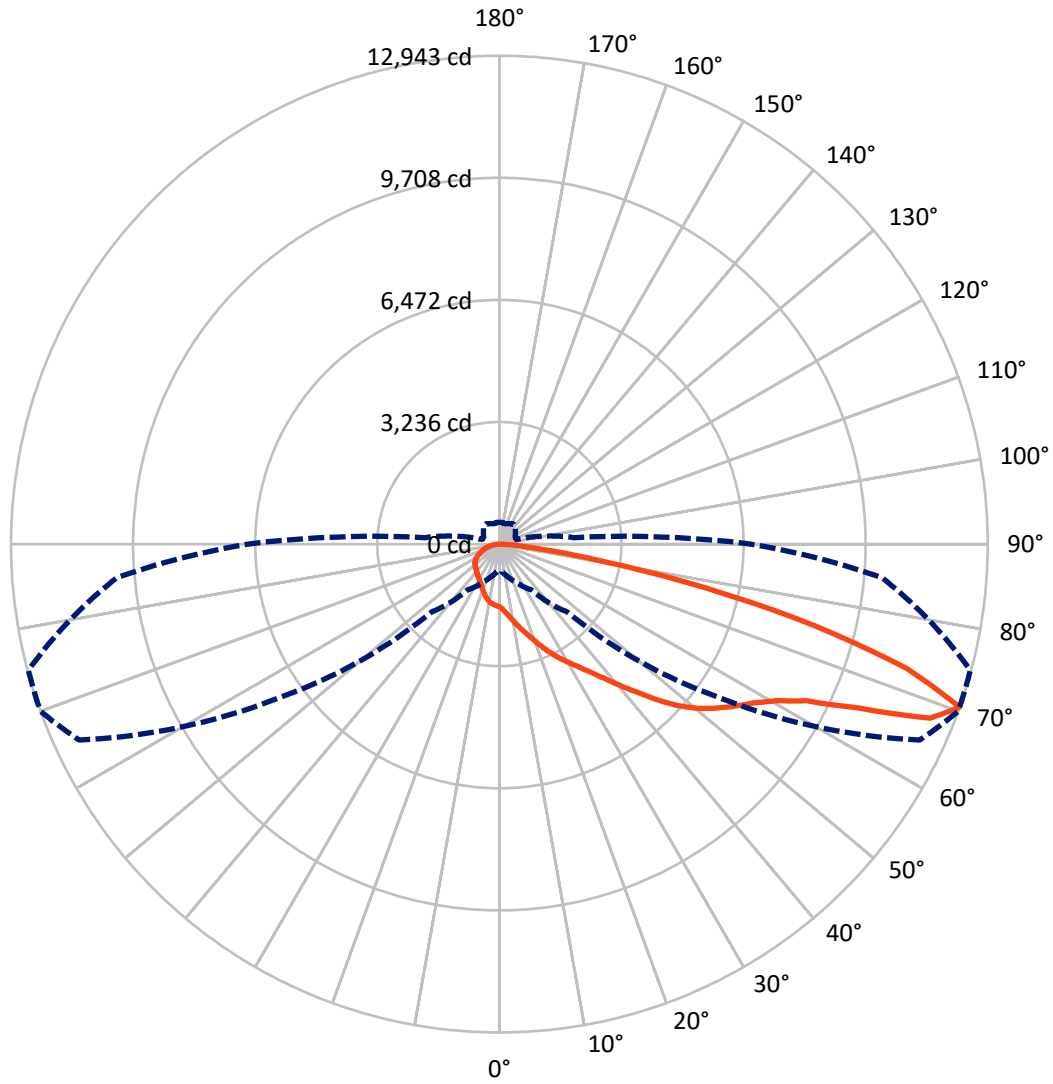
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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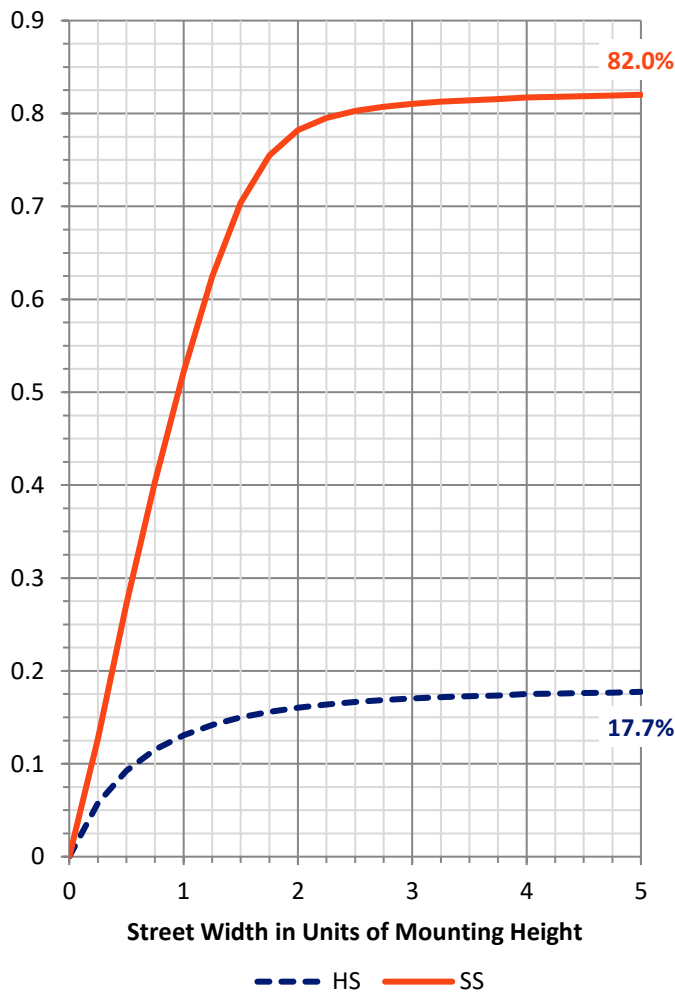
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2558.7	0.0	2558.7
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	11719.4	0.0	11719.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	14278.1	0.0	14278.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	1.2
10°-20°	550.5	3.9
20°-30°	975.3	6.8
30°-40°	1467.9	10.3
40°-50°	2220.7	15.6
50°-60°	3181.2	22.3
60°-70°	3516.5	24.6
70°-80°	1984.5	13.9
80°-90°	212.3	1.5
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°	14278.1	100.0
0°-180°	14278.1	100.0

**Coefficient of Utilization**



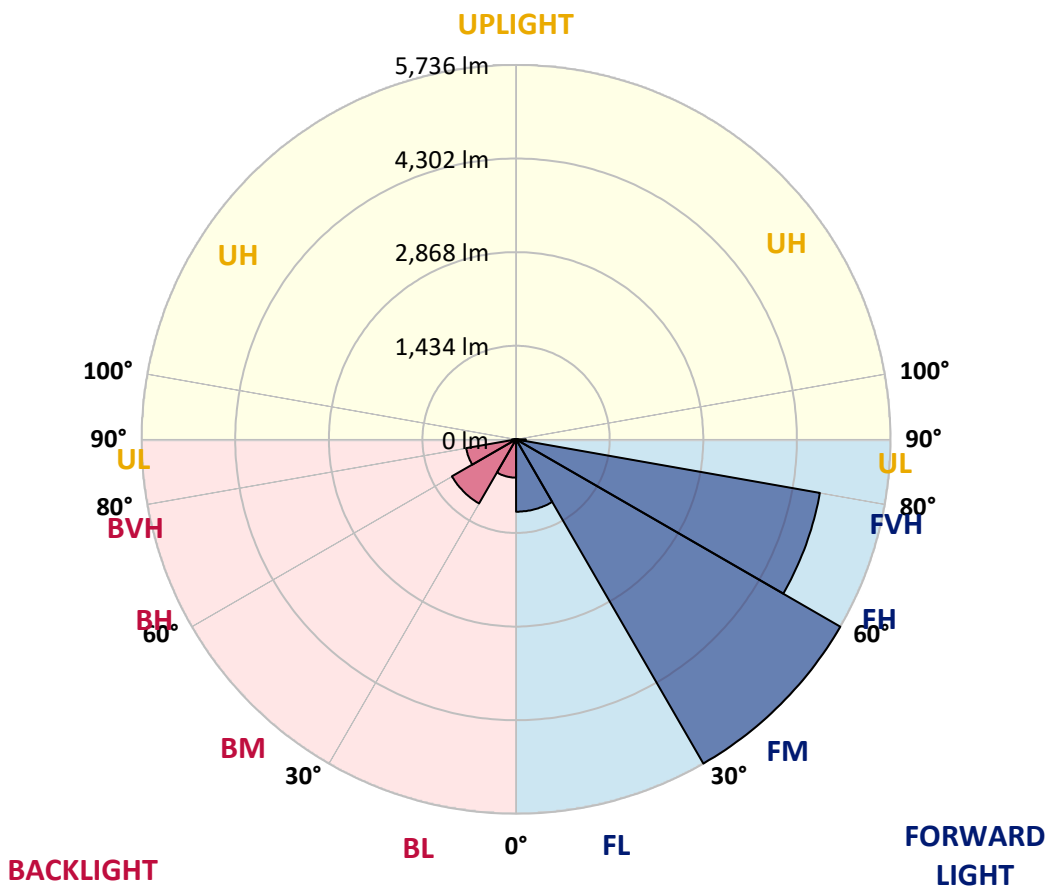
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.4	7.8			
FM (30°-60°)	5735.5	40.2			
FH (60°-80°)	4725.5	33.1			G2/5000
FVH (80°-90°)	150.1	1.1			G2/225
BL (0°-30°)	586.7	4.1	B2/1000		
BM (30°-60°)	1134.3	7.9	B2/2500		
BH (60°-80°)	775.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	62.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1844.6	1841.5	1843.6	1841.5	1830.2	1802.3	1779.6	1750.8	1731.1	1719.8	1693.0
5°	2061.3	2058.2	2051.0	2040.7	2020.0	1981.8	1925.1	1862.2	1824.0	1795.1	1738.4
7.5°	2217.1	2217.1	2216.0	2203.7	2189.2	2149.0	2081.9	1999.4	1943.7	1894.2	1801.3
10°	2296.5	2301.7	2308.9	2326.4	2323.3	2301.7	2238.7	2150.0	2079.9	2022.1	1883.8
12.5°	2339.8	2342.9	2355.3	2391.4	2428.6	2433.7	2396.6	2303.7	2227.4	2150.0	1975.7
15°	2395.5	2396.6	2413.1	2456.4	2511.1	2565.8	2556.5	2463.6	2385.2	2299.6	2077.8
17.5°	2438.9	2446.1	2476.0	2526.6	2594.7	2670.0	2715.4	2657.6	2560.6	2462.6	2189.2
20°	2454.4	2459.5	2498.7	2576.1	2668.9	2775.2	2876.3	2860.8	2762.8	2647.3	2315.1
22.5°	2510.1	2510.1	2539.0	2603.9	2713.3	2868.1	3032.1	3072.3	2985.7	2850.5	2450.2
25°	2632.8	2628.7	2642.1	2668.9	2751.5	2942.3	3185.8	3306.5	3209.5	3057.9	2585.4
27.5°	2801.0	2798.9	2797.9	2802.0	2829.9	3007.3	3315.8	3525.2	3428.3	3257.0	2706.1
30°	2983.6	2977.4	2990.8	2978.4	2972.3	3084.7	3426.2	3721.2	3645.9	3454.0	2806.2
32.5°	3232.2	3220.9	3217.8	3177.6	3152.8	3205.4	3514.9	3944.1	3884.3	3666.6	2918.6
35°	3560.3	3550.0	3497.4	3433.4	3360.2	3384.9	3625.3	4161.8	4165.9	3932.7	3066.1
37.5°	3891.5	3893.5	3852.3	3701.6	3626.3	3611.9	3793.5	4426.9	4515.6	4250.5	3257.0
40°	4166.9	4179.3	4179.3	4020.4	3908.0	3894.6	4029.7	4741.6	4918.0	4640.5	3498.4
42.5°	4376.4	4387.7	4423.8	4309.3	4190.7	4237.1	4316.5	5057.3	5374.0	5122.3	3803.8
45°	4606.4	4615.7	4635.3	4569.3	4500.2	4624.0	4641.5	5434.9	5896.0	5662.9	4158.7
47.5°	4911.8	4903.5	4905.6	4857.1	4803.5	5003.6	4999.5	5752.6	6400.5	6255.0	4543.5
50°	5291.5	5306.9	5292.5	5196.5	5133.6	5316.2	5339.9	6104.4	6844.1	6841.0	4931.4
52.5°	5656.7	5662.9	5739.2	5743.3	5614.4	5576.2	5638.1	6459.3	7218.6	7377.5	5303.8
55°	5675.2	5699.0	5928.0	6093.1	6301.5	5995.1	5939.3	6797.7	7580.7	7902.6	5690.7
57.5°	5280.1	5318.3	5707.2	6063.1	6643.0	6714.1	6455.2	7235.1	7942.9	8419.5	6138.5
60°	4436.2	4515.6	5043.9	5588.6	6489.2	7231.0	7510.6	7829.4	8418.5	8947.7	6682.2
62.5°	2833.0	2863.9	3604.7	4516.7	5797.0	7180.5	8659.9	8876.5	9142.7	9635.8	7519.9
65°	1418.6	1517.6	1951.9	2695.8	4180.3	6327.3	9240.7	10794.4	10468.4	10814.0	8877.6
67.5°	962.6	994.5	1214.3	1619.7	2451.3	4482.6	8880.7	12410.0	12314.1	12370.8	10325.0
70°	709.8	730.4	903.7	1147.2	1482.5	2545.1	7070.1	12288.3	12943.4	12922.8	10173.3
72.5°	517.9	528.2	659.2	875.9	1098.7	1316.4	4317.6	9926.8	11298.9	11894.2	8897.2
75°	376.6	388.9	458.1	655.1	854.2	821.2	2131.4	7170.1	8616.5	9761.7	7248.5
77.5°	280.6	296.1	328.1	410.6	598.4	588.1	921.3	4655.9	5573.1	6375.7	4403.2
80°	202.2	205.3	223.9	263.1	379.7	344.6	438.5	2427.5	2783.5	3049.6	1726.0
82.5°	122.8	125.9	149.6	162.0	235.2	216.7	228.0	786.1	1126.6	1195.7	644.8
85°	36.1	38.2	68.1	74.3	98.0	92.9	91.8	319.8	381.7	488.0	253.8
87.5°	0.0	0.0	0.0	0.0	1.0	6.2	11.3	56.7	85.6	118.6	61.9
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°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1682.7	1658.9	1646.6	1624.9	1609.4	1593.9	1578.5	1564.0	1557.8	1548.5	1550.6
5°	1712.6	1675.4	1638.3	1596.0	1559.9	1530.0	1503.1	1479.4	1469.1	1459.8	1463.9
7.5°	1758.0	1702.3	1631.1	1553.7	1497.0	1455.7	1427.8	1411.3	1406.2	1399.0	1399.0
10°	1815.7	1732.2	1607.3	1497.0	1428.9	1395.9	1383.5	1382.4	1387.6	1388.6	1386.6
12.5°	1879.7	1761.1	1572.3	1429.9	1372.1	1361.8	1371.1	1388.6	1406.2	1415.5	1413.4
15°	1945.7	1779.6	1512.4	1365.9	1330.9	1344.3	1374.2	1409.3	1443.3	1460.9	1459.8
17.5°	2007.6	1783.8	1435.1	1304.0	1294.8	1328.8	1380.4	1435.1	1481.5	1506.2	1507.3
20°	2076.8	1776.5	1355.6	1248.3	1258.6	1314.4	1382.4	1448.5	1503.1	1527.9	1534.1
22.5°	2139.7	1751.8	1278.2	1195.7	1227.7	1296.8	1365.9	1427.8	1476.3	1500.1	1508.3
25°	2196.4	1704.3	1193.6	1151.3	1204.0	1272.1	1324.7	1368.0	1402.0	1416.5	1427.8
27.5°	2227.4	1633.1	1129.7	1116.3	1181.3	1237.0	1265.9	1279.3	1290.6	1286.5	1294.8
30°	2233.6	1544.4	1074.0	1088.4	1147.2	1188.5	1194.7	1181.3	1161.7	1129.7	1136.9
32.5°	2227.4	1442.3	1027.5	1058.5	1109.0	1133.8	1125.6	1090.5	1043.0	993.5	996.6
35°	2229.4	1339.1	989.4	1025.5	1064.7	1078.1	1057.5	1009.0	958.4	913.0	911.0
37.5°	2252.1	1252.5	957.4	993.5	1021.4	1023.4	1000.7	950.2	924.4	890.3	886.2
40°	2315.1	1188.5	928.5	961.5	979.1	978.0	952.2	916.1	933.7	922.3	919.2
42.5°	2418.2	1149.3	904.8	927.5	939.9	941.9	921.3	898.6	936.8	922.3	917.2
45°	2584.3	1147.2	888.3	893.4	913.0	927.5	913.0	887.2	901.7	831.5	818.1
47.5°	2781.4	1182.3	875.9	863.5	897.6	923.3	900.7	859.4	829.5	765.5	756.2
50°	3018.7	1253.5	864.5	831.5	874.9	907.9	885.2	828.4	783.0	749.0	743.8
52.5°	3300.3	1347.4	850.1	795.4	840.8	899.6	885.2	825.3	765.5	734.6	729.4
55°	3595.4	1455.7	833.6	752.1	802.6	901.7	892.4	803.7	752.1	735.6	731.5
57.5°	3961.6	1585.7	803.7	701.5	768.6	883.1	863.5	791.3	742.8	729.4	725.3
60°	4437.2	1778.6	746.9	650.0	729.4	850.1	837.7	770.7	718.0	706.7	703.6
62.5°	5190.4	2105.6	677.8	600.4	683.0	781.0	799.5	731.5	687.1	686.1	685.0
65°	6418.0	2498.7	596.3	556.1	634.5	724.2	749.0	691.2	655.1	666.5	665.4
67.5°	7278.5	2532.8	529.2	509.6	577.7	662.3	698.4	650.0	610.8	632.4	631.4
70°	6666.7	1975.7	471.5	461.2	516.9	595.3	643.8	598.4	559.2	579.8	575.7
72.5°	5622.6	1514.5	416.8	410.6	455.0	525.1	573.6	546.8	505.5	505.5	496.2
75°	4518.7	1249.4	359.0	355.9	385.8	453.9	508.6	463.2	425.0	423.0	416.8
77.5°	2591.6	819.1	301.2	299.2	308.5	379.7	395.1	385.8	357.0	343.5	339.4
80°	1032.7	426.1	237.3	223.9	233.2	278.6	311.6	296.1	271.3	254.8	245.5
82.5°	400.3	213.6	167.1	146.5	159.9	201.2	225.9	220.8	204.3	167.1	156.8
85°	163.0	104.2	100.1	84.6	92.9	108.3	130.0	112.5	92.9	66.0	62.9
87.5°	43.3	38.2	37.1	22.7	17.5	5.2	1.0	0.0	0.0	0.0	0.0
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)