

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: P632560

Luminaire Tested: GWS-SA2C-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4611.3 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

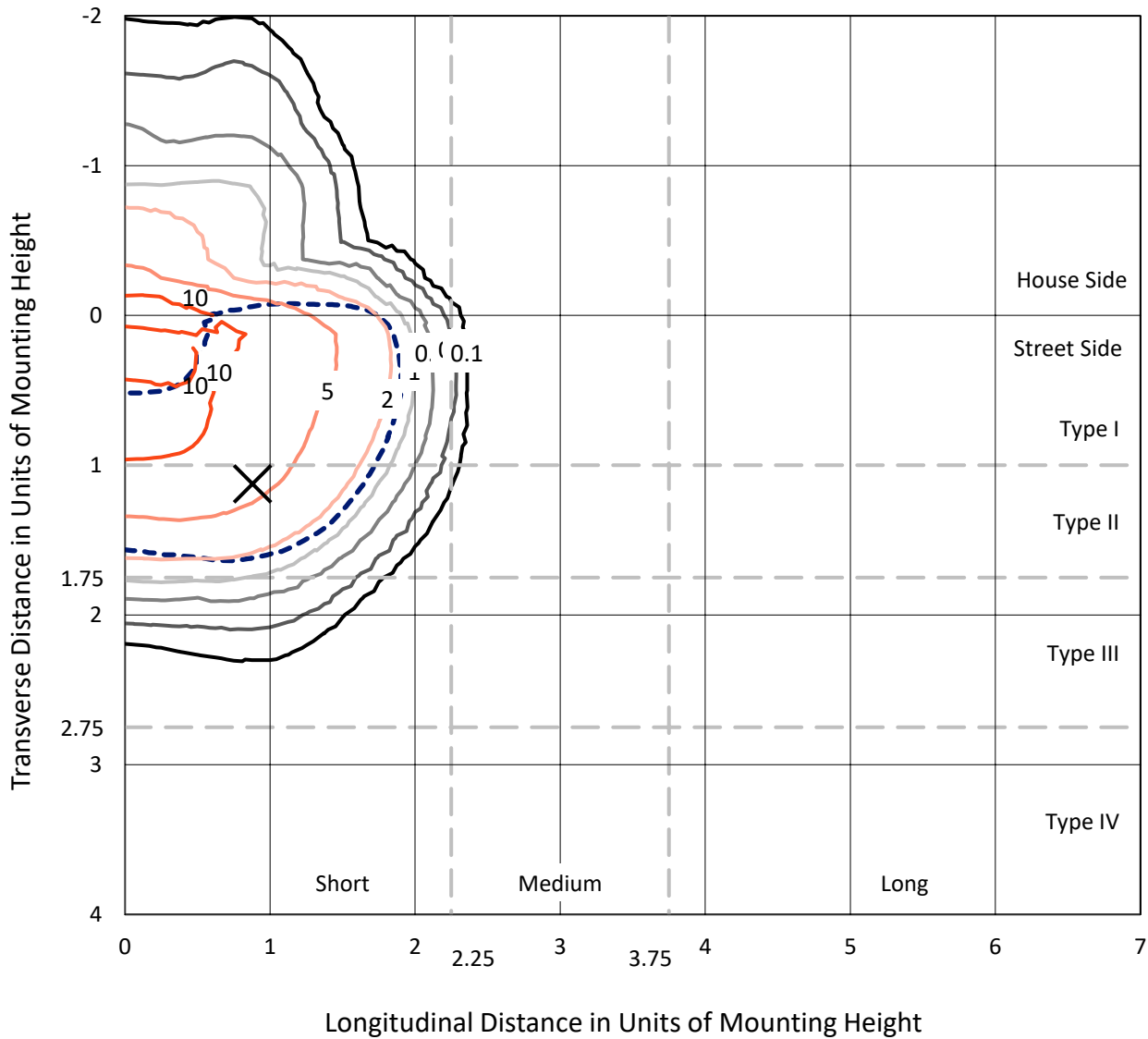
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

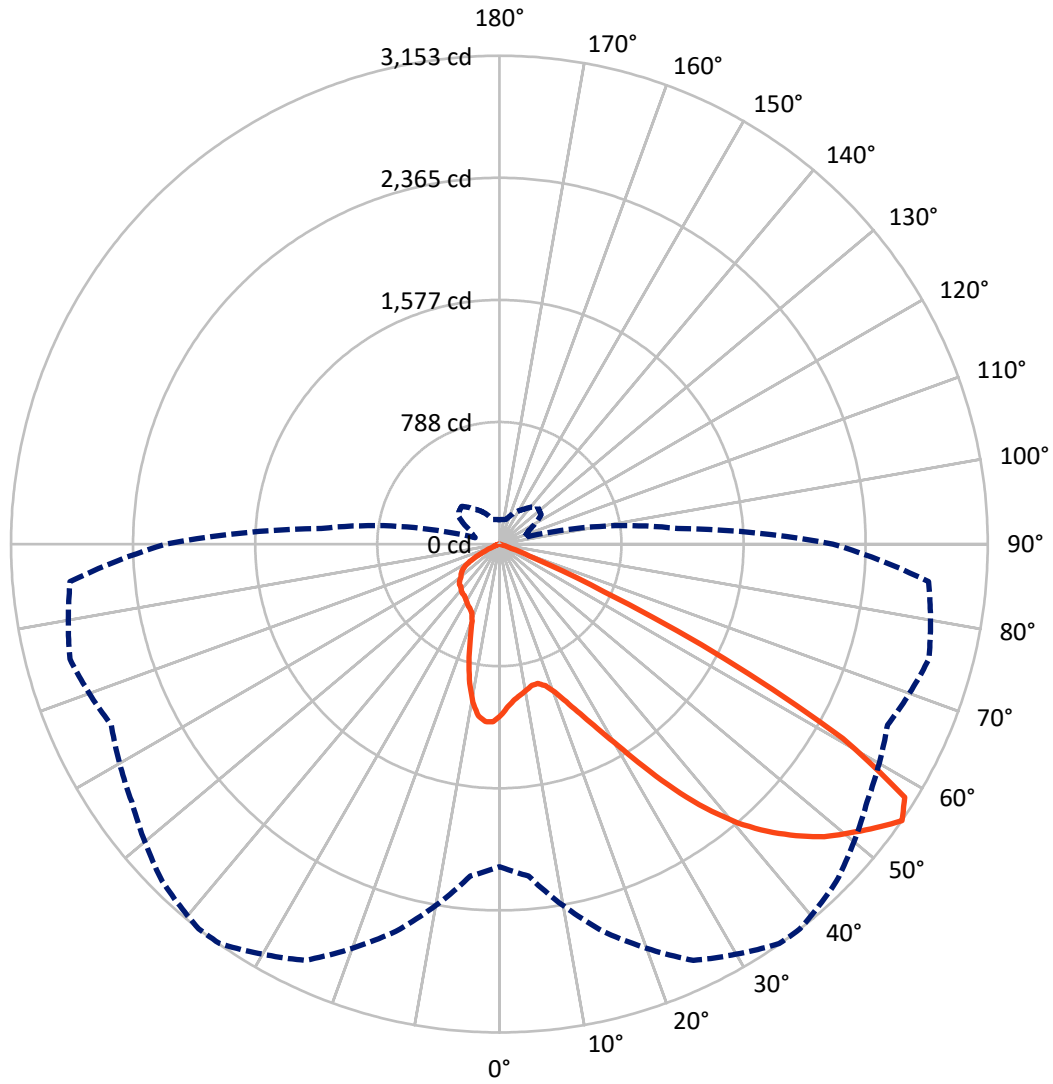
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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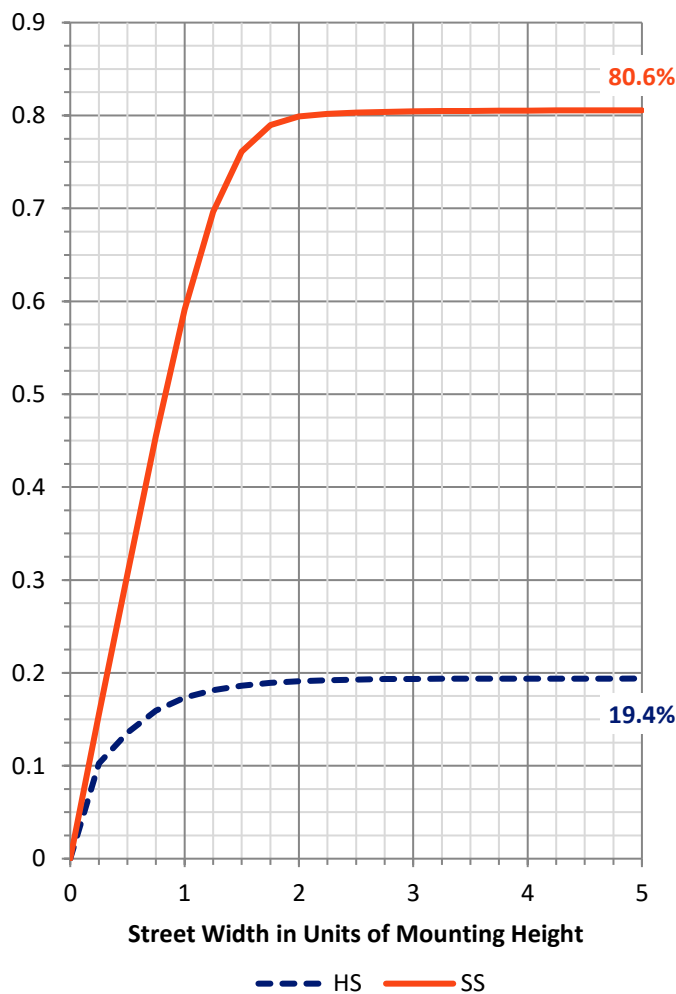
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.4	0.0	898.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3712.9	0.0	3712.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	4611.3	0.0	4611.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.2
10°-20°	275.3	6.0
20°-30°	472.4	10.2
30°-40°	783.5	17.0
40°-50°	1151.7	25.0
50°-60°	1345.8	29.2
60°-70°	456.2	9.9
70°-80°	23.3	0.5
80°-90°	0.9	0.0
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°	4611.3	100.0
0°-180°	4611.3	100.0

Coefficient of Utilization



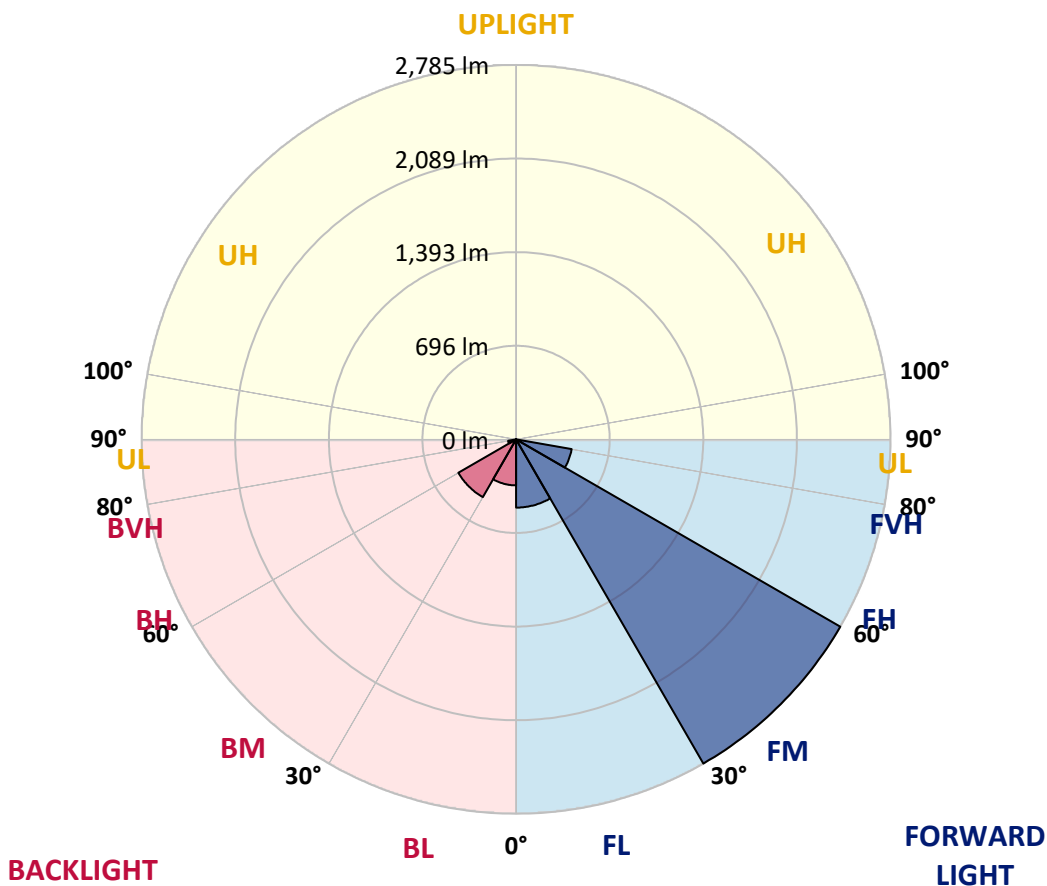
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.6	11.0			
FM (30°-60°)	2785.1	60.4			
FH (60°-80°)	419.7	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	342.3	7.4	B1/500		
BM (30°-60°)	495.9	10.8	B1/1000		
BH (60°-80°)	59.8	1.3	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8
2.5°	1029.9	1027.8	1032.0	1040.5	1048.4	1051.0	1058.9	1070.0	1076.8	1093.2	1106.4
5°	983.5	982.5	986.7	994.1	1004.6	1008.3	1020.4	1038.9	1057.3	1085.8	1113.7
7.5°	941.4	940.8	947.2	963.5	978.8	983.5	998.3	1021.0	1045.7	1089.5	1130.6
10°	886.0	886.6	898.7	921.9	949.8	959.3	983.0	1015.7	1047.8	1104.2	1161.2
12.5°	868.1	869.2	875.5	893.4	924.0	936.1	969.3	1018.9	1060.0	1125.3	1200.7
15°	911.9	911.9	906.6	908.7	922.4	933.5	968.3	1029.4	1080.5	1150.6	1239.7
17.5°	996.7	993.6	980.4	962.5	957.7	961.4	989.3	1052.1	1109.5	1180.1	1284.0
20°	1111.6	1112.7	1086.8	1049.4	1019.4	1018.9	1035.7	1092.1	1151.2	1215.5	1331.9
22.5°	1250.8	1246.6	1212.3	1161.2	1109.0	1104.8	1111.6	1153.3	1211.2	1271.3	1391.0
25°	1412.1	1410.0	1361.5	1292.9	1223.9	1213.9	1213.9	1255.0	1297.2	1350.9	1461.6
27.5°	1580.7	1580.7	1533.8	1454.8	1363.0	1345.1	1342.5	1391.0	1418.9	1429.5	1521.2
30°	1754.1	1752.0	1705.6	1624.5	1526.4	1508.0	1500.6	1536.5	1556.5	1524.9	1595.5
32.5°	1930.2	1933.9	1887.0	1811.6	1724.1	1712.0	1689.3	1689.3	1705.6	1661.4	1712.5
35°	2119.4	2118.4	2081.5	2030.3	1955.5	1941.8	1904.4	1845.9	1870.6	1851.1	1874.3
37.5°	2286.5	2294.4	2276.5	2238.5	2177.9	2164.2	2102.5	1996.6	2015.6	2046.1	2066.7
40°	2456.2	2462.5	2480.5	2468.3	2391.9	2366.6	2257.0	2083.0	2104.1	2209.0	2268.0
42.5°	2622.8	2625.9	2662.3	2682.3	2580.1	2535.8	2374.0	2135.7	2157.9	2336.6	2439.9
45°	2728.7	2735.6	2795.7	2856.8	2746.1	2685.5	2475.7	2203.2	2212.7	2425.1	2566.9
47.5°	2724.5	2740.3	2853.1	2964.3	2889.0	2823.6	2598.0	2311.3	2295.5	2508.4	2650.7
50°	2639.6	2658.6	2820.4	2997.0	2991.7	2931.1	2734.0	2467.8	2418.3	2582.2	2661.3
52.5°	2463.6	2518.4	2763.0	3001.2	3074.5	3043.9	2902.1	2678.6	2584.3	2688.1	2678.1
55°	2083.0	2150.5	2588.5	2965.4	3149.3	3153.0	3078.7	2898.4	2764.6	2870.5	2782.0
57.5°	1581.3	1635.0	1992.4	2639.6	3025.5	3086.1	3147.2	3014.4	2875.8	2994.9	2806.2
60°	953.0	1015.2	1247.6	1937.0	2443.6	2546.9	2786.7	2760.9	2593.8	2644.9	2301.3
62.5°	386.4	419.0	576.1	1067.3	1538.0	1634.5	1864.3	1903.3	1862.2	1810.0	1395.7
65°	141.3	154.4	230.9	441.2	707.3	742.7	863.9	932.9	989.9	842.8	519.2
67.5°	87.5	95.9	150.2	226.6	257.2	239.3	243.5	290.4	277.2	171.3	92.8
70°	64.8	71.7	117.5	157.1	103.8	80.1	54.3	58.0	52.2	45.9	45.3
72.5°	44.8	51.1	88.0	92.8	40.1	28.5	20.0	27.9	31.6	31.1	32.2
75°	29.5	34.3	55.3	36.4	10.0	7.9	6.9	14.8	19.0	19.0	19.5
77.5°	17.4	20.0	19.5	7.4	2.1	2.1	1.6	2.6	4.2	4.7	5.8
80°	2.1	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
82.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6
85°	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.6	1.6
87.5°	0.0	0.0	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.6	1.6
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°	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8
2.5°	1116.4	1112.7	1128.0	1139.0	1148.0	1152.2	1146.4	1145.9	1145.9	1134.3	1131.1
5°	1129.5	1131.1	1152.7	1162.2	1163.8	1158.5	1145.4	1136.4	1131.1	1119.0	1112.2
7.5°	1154.8	1160.1	1180.7	1179.1	1164.9	1140.6	1105.8	1078.9	1061.5	1042.6	1031.0
10°	1191.2	1201.2	1213.9	1191.7	1146.4	1084.7	1013.1	961.9	931.4	909.7	896.6
12.5°	1235.5	1245.5	1241.3	1189.1	1094.8	984.6	892.4	818.6	783.2	763.7	750.0
15°	1280.3	1286.6	1259.2	1157.5	1003.6	855.5	752.7	679.4	636.2	620.4	608.8
17.5°	1326.1	1324.6	1262.4	1095.3	881.8	710.0	608.8	558.7	546.6	544.0	542.9
20°	1374.1	1359.9	1249.7	1006.2	735.3	566.1	508.6	511.8	533.9	544.5	546.6
22.5°	1428.9	1393.1	1218.1	885.5	585.6	471.7	477.5	508.6	538.7	552.9	555.0
25°	1487.4	1423.7	1165.4	730.5	461.7	433.8	468.1	503.9	536.0	553.4	555.5
27.5°	1525.9	1431.0	1078.9	574.5	396.4	419.0	455.4	489.7	522.9	541.8	544.5
30°	1567.6	1427.9	961.4	442.8	374.2	406.4	438.0	469.1	499.7	520.8	522.9
32.5°	1628.7	1425.8	818.0	359.5	365.3	396.4	419.6	445.4	466.5	478.6	477.0
35°	1708.8	1423.1	651.0	324.2	360.0	388.5	406.9	419.0	395.8	388.5	390.0
37.5°	1811.6	1429.5	510.2	309.4	358.4	386.4	402.2	367.4	331.5	317.8	315.7
40°	1925.4	1445.8	389.0	303.6	363.7	391.6	384.2	326.8	282.5	255.6	249.8
42.5°	2039.8	1463.7	307.8	301.5	372.6	406.4	354.7	297.3	230.9	215.6	213.5
45°	2124.7	1460.6	266.2	297.8	380.6	414.8	346.8	255.1	206.1	199.2	199.8
47.5°	2167.4	1425.8	243.5	289.4	383.7	406.4	327.3	237.7	189.2	196.6	202.9
50°	2144.7	1335.6	222.4	273.0	376.9	395.3	296.2	224.5	180.8	211.4	225.6
52.5°	2117.3	1224.9	199.2	247.7	360.5	380.0	284.1	220.8	175.5	204.0	214.5
55°	2153.7	1154.8	161.3	208.7	328.4	344.2	274.6	220.3	163.4	158.7	157.1
57.5°	2102.5	1015.2	115.4	150.2	251.9	272.5	267.8	216.6	144.9	144.4	146.5
60°	1625.0	619.3	79.1	95.4	154.4	173.9	243.0	207.1	124.9	114.9	115.4
62.5°	923.5	263.5	54.3	59.0	79.1	93.8	185.5	188.2	115.4	109.6	115.4
65°	321.5	94.3	42.2	39.5	43.7	50.1	106.5	145.5	104.9	94.9	95.9
67.5°	66.4	46.9	37.4	32.7	32.7	32.7	54.3	90.7	86.4	75.4	76.4
70°	42.2	40.1	32.7	27.9	26.9	24.8	31.1	50.1	59.6	54.8	55.3
72.5°	31.1	30.6	25.8	22.7	20.0	17.9	19.5	24.8	30.6	31.6	32.2
75°	19.0	19.5	16.9	14.2	12.7	11.1	11.6	11.6	11.6	10.5	11.6
77.5°	5.8	6.3	5.3	4.2	3.7	3.7	3.7	3.2	2.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0
82.5°	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	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)