

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: P631822

Luminaire Tested: GWS-SA2B-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5437.6 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

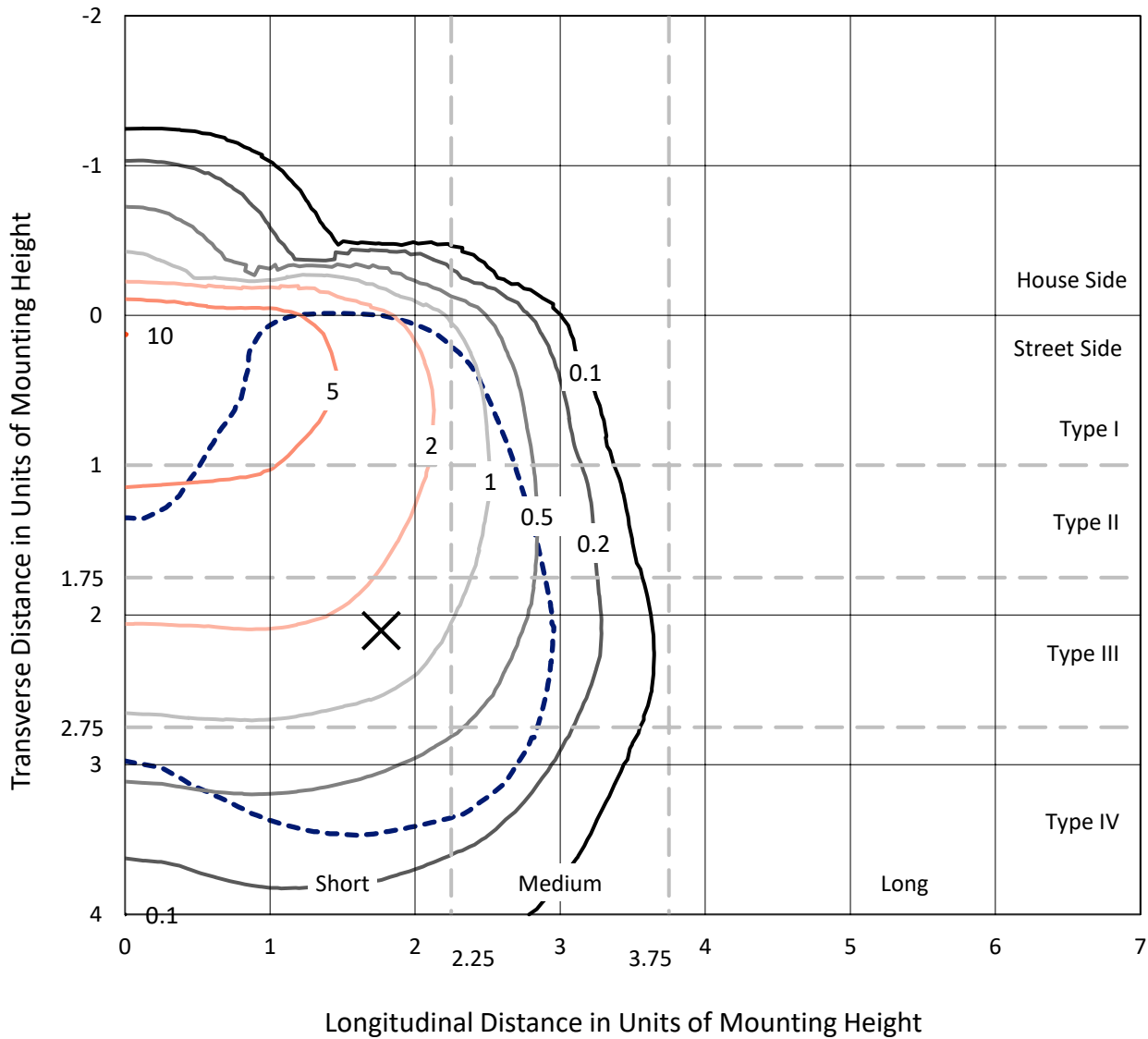
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

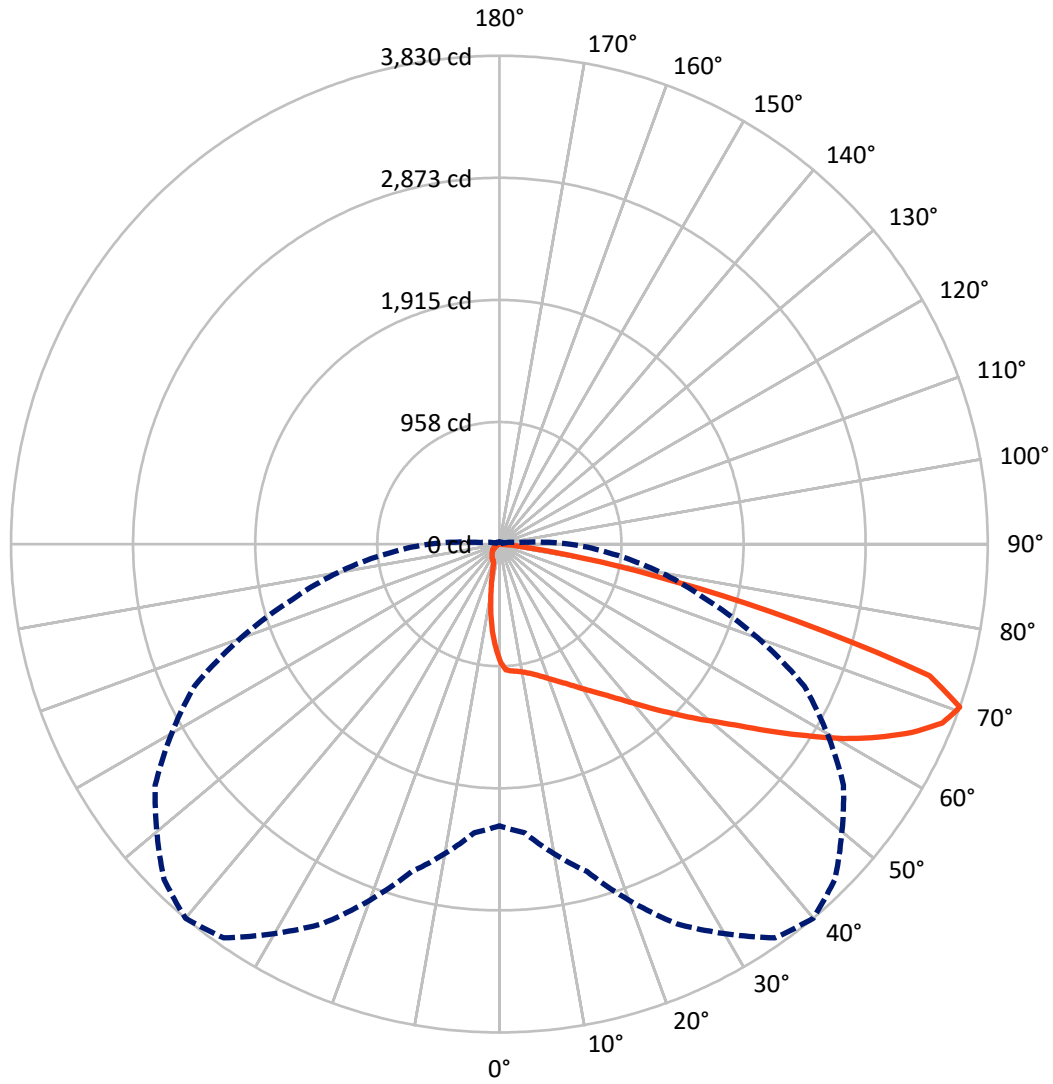
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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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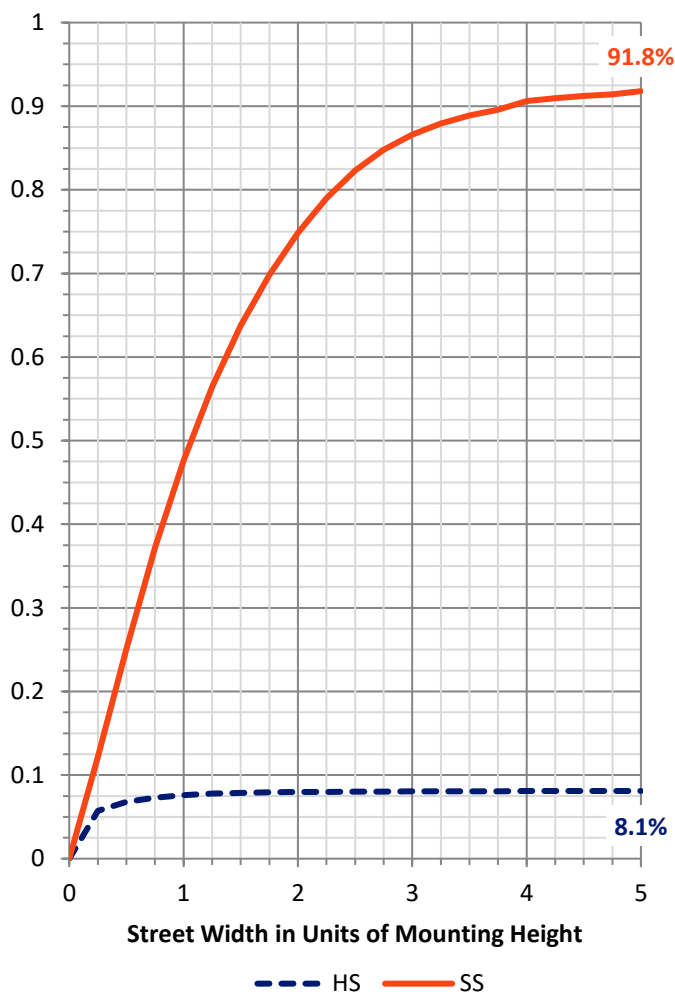
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.7	0.0	444.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	4992.9	0.0	4992.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	5437.6	0.0	5437.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.4
10°-20°	197.8	3.6
20°-30°	331.0	6.1
30°-40°	519.9	9.6
40°-50°	822.4	15.1
50°-60°	1199.7	22.1
60°-70°	1487.2	27.4
70°-80°	752.4	13.8
80°-90°	49.1	0.9
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°	5437.6	100.0
0°-180°	5437.6	100.0

Coefficient of Utilization



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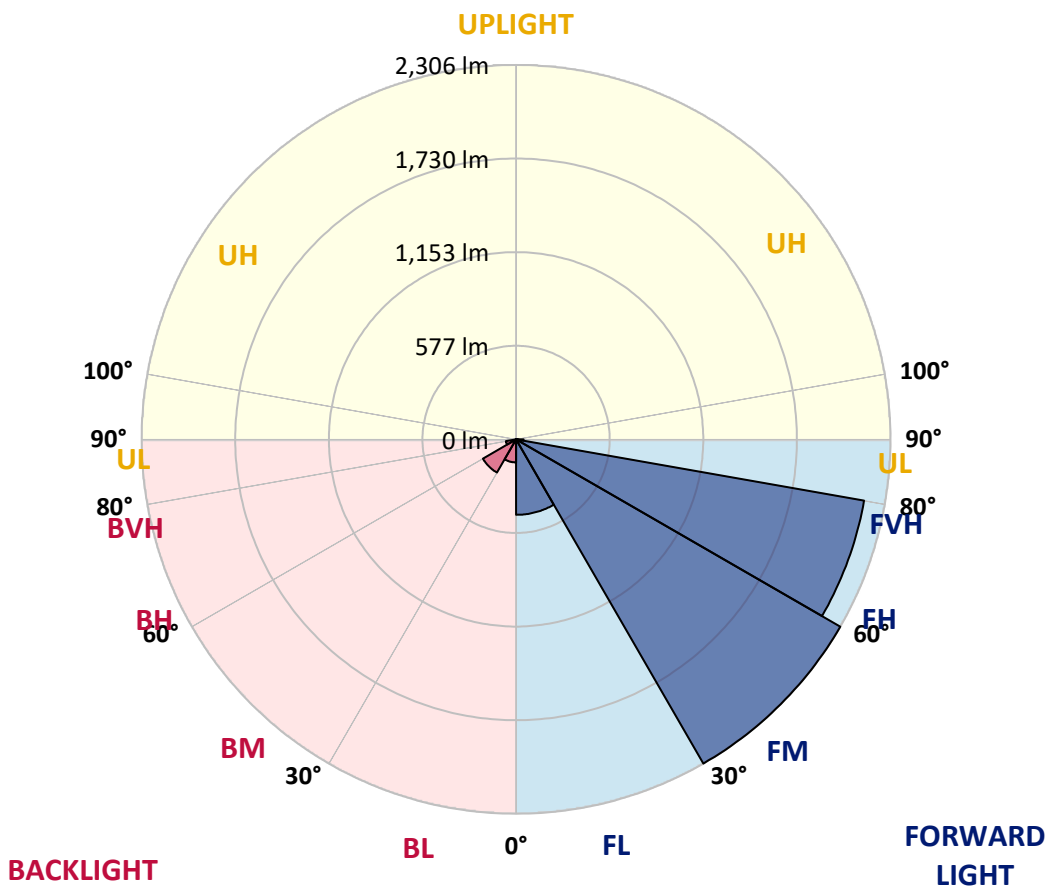
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.8	8.5			
FM (30°-60°)	2306.0	42.4			
FH (60°-80°)	2176.2	40.0			G2/5000
FVH (80°-90°)	45.9	0.8			G1/100
BL (0°-30°)	142.0	2.6	B1/500		
BM (30°-60°)	236.0	4.3	B1/1000		
BH (60°-80°)	63.4	1.2	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5°	992.0	995.4	994.9	996.4	992.9	987.5	986.5	979.1	965.7	948.9	930.1
5°	1012.2	1016.2	1013.2	1011.7	1005.3	999.4	997.9	990.0	974.6	951.9	919.2
7.5°	1029.6	1030.5	1028.6	1025.1	1015.7	1007.8	1002.3	991.5	973.2	950.4	912.8
10°	1032.5	1032.0	1033.0	1033.5	1027.6	1020.7	1016.2	1001.4	978.1	953.9	913.3
12.5°	1029.1	1029.1	1035.5	1042.9	1042.9	1039.5	1035.0	1021.6	994.4	965.7	923.2
15°	1033.5	1035.0	1047.4	1061.2	1065.7	1062.2	1060.2	1046.4	1018.2	986.5	941.0
17.5°	1049.3	1050.8	1070.6	1091.4	1096.8	1092.9	1088.9	1075.1	1044.9	1010.3	961.3
20°	1072.6	1076.6	1101.8	1128.5	1133.5	1128.5	1120.6	1101.3	1071.1	1036.0	980.6
22.5°	1115.2	1117.6	1144.8	1173.0	1175.5	1167.6	1155.7	1129.0	1097.3	1063.2	1002.3
25°	1171.6	1175.0	1202.2	1229.4	1223.0	1211.1	1194.8	1164.6	1128.5	1095.4	1030.1
27.5°	1238.8	1242.8	1269.5	1293.3	1276.4	1262.6	1244.3	1206.7	1170.1	1139.9	1065.7
30°	1311.6	1315.0	1338.8	1360.0	1337.8	1321.5	1299.7	1261.1	1224.0	1201.2	1116.1
32.5°	1381.8	1381.3	1404.1	1421.4	1398.6	1385.8	1366.0	1326.9	1297.2	1287.3	1191.3
35°	1447.1	1447.1	1465.9	1483.2	1466.9	1460.0	1441.7	1410.5	1393.7	1405.6	1291.8
37.5°	1512.9	1509.5	1527.3	1546.6	1545.1	1545.6	1535.2	1520.3	1521.3	1563.4	1429.8
40°	1567.3	1565.9	1586.6	1611.9	1631.7	1647.5	1641.1	1646.5	1677.7	1756.3	1606.4
42.5°	1610.9	1614.3	1641.1	1681.1	1731.1	1763.3	1767.7	1790.0	1870.1	1991.8	1805.8
45°	1660.9	1661.3	1698.5	1759.8	1839.5	1890.4	1908.2	1965.6	2079.4	2236.2	2024.5
47.5°	1722.2	1716.3	1757.8	1843.9	1959.2	2034.4	2066.0	2137.8	2313.9	2474.7	2202.6
50°	1790.0	1779.1	1826.1	1943.4	2093.3	2187.3	2251.6	2356.5	2546.4	2670.6	2335.2
52.5°	1868.6	1858.3	1911.7	2057.6	2254.0	2368.3	2451.0	2556.8	2745.8	2820.0	2414.3
55°	1968.6	1958.2	2014.6	2194.7	2444.0	2592.5	2679.0	2768.1	2931.4	2930.4	2471.7
57.5°	2079.4	2065.1	2143.2	2367.8	2681.0	2835.4	2923.4	2967.0	3072.4	3016.0	2510.3
60°	2206.6	2193.7	2302.0	2574.1	2954.6	3097.6	3153.0	3135.2	3188.1	3066.4	2497.0
62.5°	2321.3	2315.4	2450.0	2792.8	3215.3	3336.1	3351.4	3273.7	3273.2	3067.4	2406.9
65°	2440.6	2451.9	2651.8	3044.6	3477.5	3558.7	3532.5	3411.3	3307.4	2946.2	2140.8
67.5°	2485.1	2518.2	2784.9	3272.2	3684.4	3747.7	3701.7	3480.0	3165.4	2538.5	1630.2
70°	2210.0	2272.4	2659.2	3285.1	3769.9	3830.3	3720.0	3295.0	2639.0	1681.6	893.0
72.5°	1680.6	1753.4	2216.0	2689.9	3390.5	3528.0	3339.5	2684.5	1700.9	736.7	299.8
75°	940.5	1019.2	1650.5	2025.5	2276.3	2402.0	2332.7	1722.2	753.5	192.5	89.5
77.5°	318.1	344.3	767.8	1253.2	1502.5	1389.7	1176.5	855.4	277.1	73.2	47.5
80°	188.5	198.4	286.0	623.9	790.6	655.5	517.5	316.1	141.0	39.1	33.1
82.5°	56.4	66.8	157.8	231.5	309.7	192.9	163.3	180.6	73.2	21.3	27.7
85°	0.0	0.0	33.6	71.7	81.1	31.7	31.7	102.4	13.4	8.9	20.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	1.5	2.0	4.5
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°	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5°	916.8	899.4	879.2	859.9	841.6	817.8	806.4	792.6	780.7	774.3	777.7
5°	898.5	871.2	829.7	787.6	745.1	705.0	668.9	644.7	622.9	611.5	614.0
7.5°	882.6	846.0	781.2	712.4	644.2	575.4	519.5	475.9	442.3	428.4	426.0
10°	875.7	829.7	738.2	639.2	534.3	441.8	362.6	314.7	280.5	263.7	266.7
12.5°	879.2	821.3	701.5	567.5	431.4	323.6	247.9	202.8	178.6	168.7	166.2
15°	889.1	819.3	668.9	494.2	333.0	226.1	171.2	152.9	147.9	146.9	146.9
17.5°	900.4	819.8	635.2	420.0	252.8	167.7	146.4	143.0	141.5	140.5	141.0
20°	911.8	819.8	596.7	344.8	190.0	145.0	139.5	137.0	135.6	135.1	135.1
22.5°	925.7	819.8	553.6	275.1	152.4	137.5	133.1	131.6	130.1	129.6	129.1
25°	942.5	820.3	506.1	215.2	138.5	131.1	127.6	126.2	124.7	123.7	123.7
27.5°	966.7	824.2	453.7	167.7	130.6	125.2	122.2	120.7	119.2	117.7	117.7
30°	1001.9	834.1	394.8	138.5	123.2	118.7	115.8	114.8	113.3	111.8	111.3
32.5°	1054.3	851.5	334.0	124.2	116.3	111.8	108.3	107.4	105.9	104.4	103.9
35°	1127.5	883.1	274.6	115.3	107.4	102.9	100.9	100.4	98.5	97.0	97.0
37.5°	1234.9	934.6	217.7	106.4	99.9	96.5	94.0	93.0	91.0	89.5	89.1
40°	1366.0	1001.4	169.2	99.4	93.0	89.5	87.1	85.6	83.1	81.1	80.1
42.5°	1533.2	1083.0	133.6	92.0	86.6	83.1	81.1	78.2	74.7	71.7	71.2
45°	1707.4	1167.1	110.3	85.1	80.6	77.7	75.2	71.2	66.3	62.8	61.8
47.5°	1840.9	1219.5	96.5	77.7	74.2	71.7	68.8	63.8	57.9	53.9	52.9
50°	1936.4	1227.5	86.1	70.7	68.8	66.3	61.8	55.9	49.5	45.5	44.5
52.5°	1983.4	1191.8	77.7	64.3	62.8	60.4	54.9	48.5	41.6	37.6	36.6
55°	2004.7	1124.6	69.8	58.9	56.9	53.9	48.0	41.1	34.1	30.7	29.7
57.5°	1996.3	1025.1	62.8	53.4	51.0	47.5	41.1	33.6	28.2	24.7	24.2
60°	1934.0	885.6	55.9	48.0	45.0	41.1	34.6	27.7	22.8	20.3	19.8
62.5°	1799.4	712.4	49.0	41.6	39.6	35.6	29.7	22.8	18.8	17.3	16.8
65°	1523.8	503.6	42.1	35.1	34.1	30.2	24.7	18.8	16.3	15.3	14.8
67.5°	1095.4	306.2	35.6	30.2	29.2	25.7	20.8	16.3	14.8	14.3	14.3
70°	550.6	145.0	28.2	24.7	24.7	21.3	17.8	14.8	14.3	13.9	13.9
72.5°	187.0	61.8	21.3	19.3	20.3	18.3	15.3	13.9	13.9	13.9	13.9
75°	63.8	32.7	14.8	13.9	14.8	14.8	13.4	13.4	13.9	13.9	13.9
77.5°	41.6	21.8	10.4	9.4	11.4	11.4	11.4	12.4	13.4	13.4	13.4
80°	34.1	11.9	6.9	6.4	8.4	8.4	9.4	11.4	12.4	12.4	12.4
82.5°	29.2	7.4	4.0	4.5	5.9	6.4	7.9	9.4	10.9	11.4	11.4
85°	19.8	4.0	3.0	3.5	4.0	4.9	6.4	7.9	8.9	9.9	9.9
87.5°	5.4	1.5	2.0	2.5	2.5	3.5	4.9	5.9	6.9	7.4	7.4
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)