

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: P631843

Luminaire Tested: GWS-SA2B-740-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-740-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

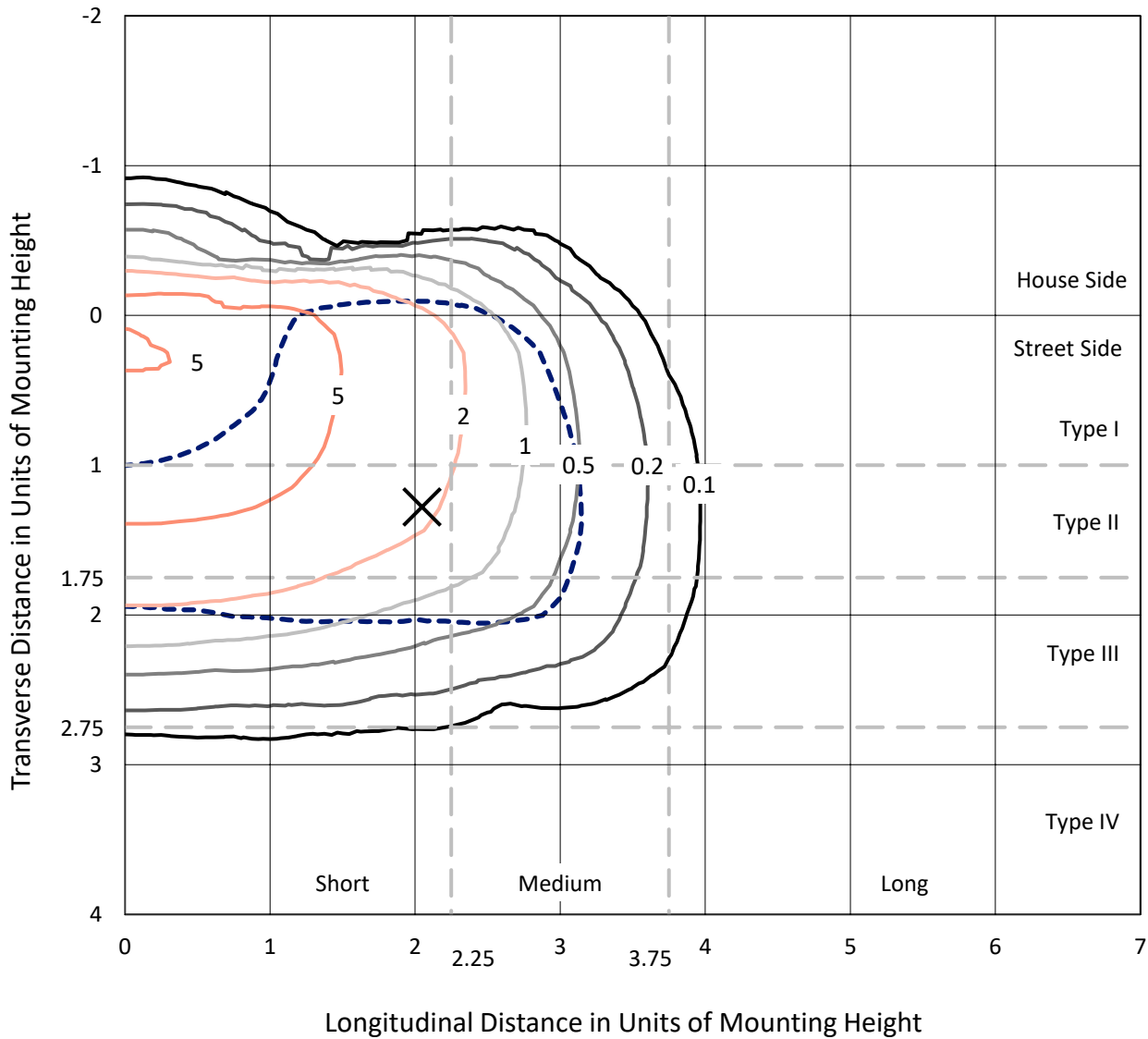
Lumens per Lamp: N/A  
Luminaire Lumens: 5066.5 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

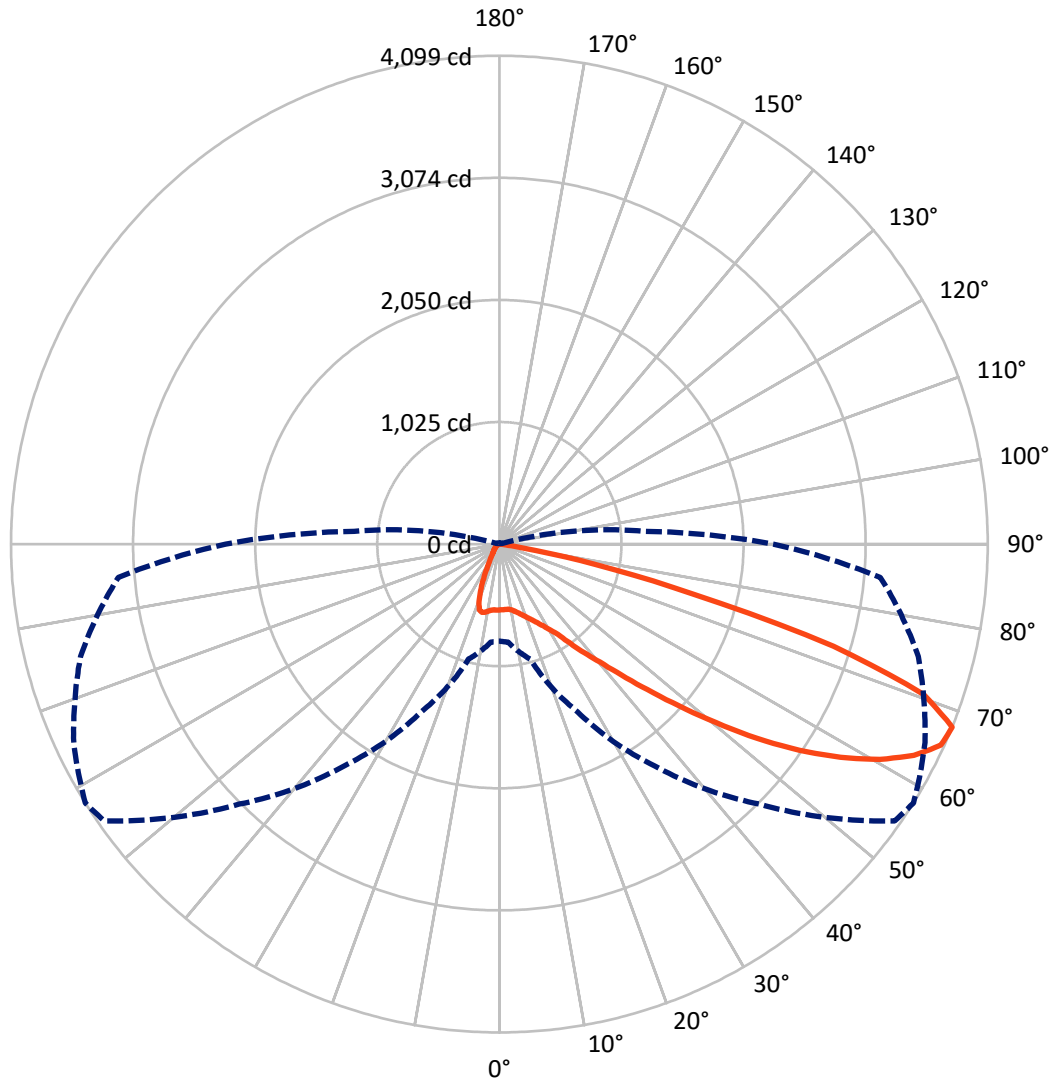
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P631843  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA2B-740-U-T3-W-HSS

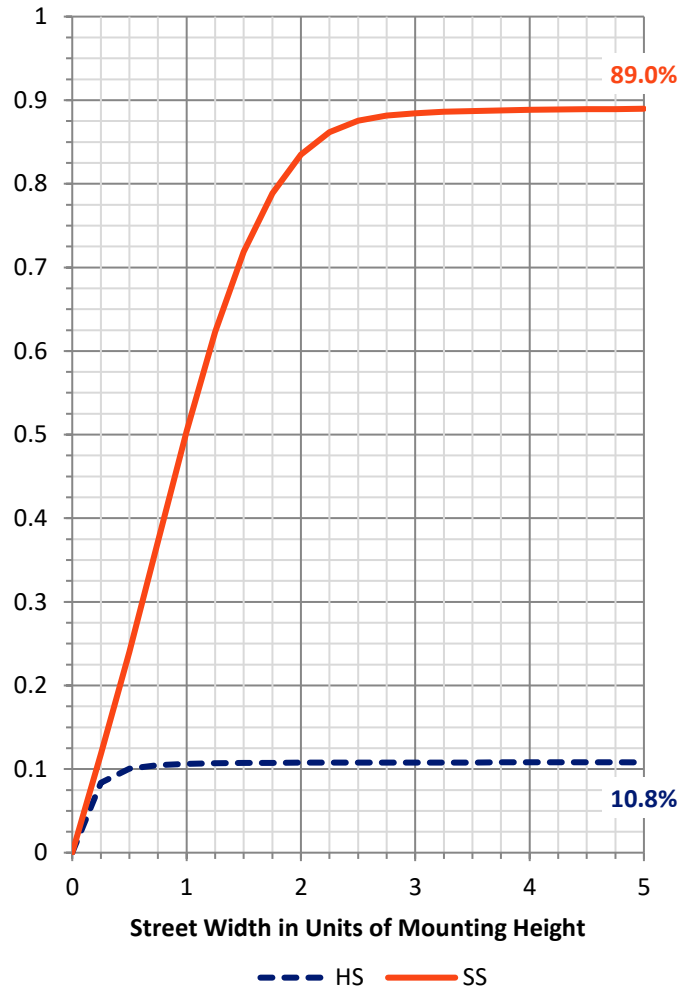
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	552.8	0.0	552.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4513.8	0.0	4513.8
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	5066.5	0.0	5066.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	1.0
10°-20°	145.6	2.9
20°-30°	254.2	5.0
30°-40°	453.9	9.0
40°-50°	829.7	16.4
50°-60°	1379.9	27.2
60°-70°	1498.8	29.6
70°-80°	440.1	8.7
80°-90°	12.5	0.2
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°	5066.5	100.0
0°-180°	5066.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631843

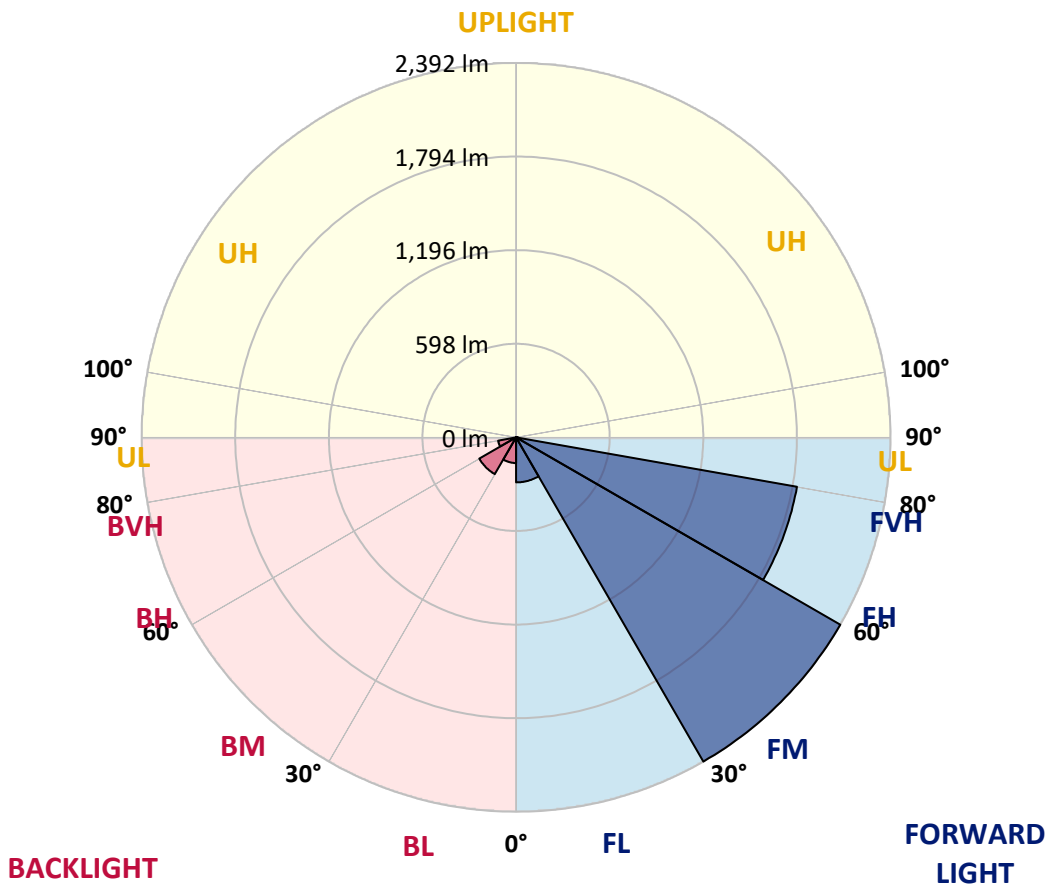
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.7	5.7			
FM (30°-60°)	2392.0	47.2			
FH (60°-80°)	1822.1	36.0			G2/5000
FVH (80°-90°)	11.9	0.2			G1/100
BL (0°-30°)	164.0	3.2	B1/500		
BM (30°-60°)	271.5	5.4	B1/1000		
BH (60°-80°)	116.7	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	541.7	540.7	540.7	544.7	545.2	547.2	551.6	552.1	554.6	553.6	550.1
5°	513.5	514.0	517.0	523.9	529.8	537.3	548.1	550.6	556.1	559.0	557.0
7.5°	487.3	487.8	492.2	503.1	514.5	529.3	547.2	552.1	563.0	570.9	571.4
10°	477.4	476.9	481.4	493.7	508.6	529.3	555.1	561.5	577.8	591.7	594.1
12.5°	480.4	479.9	484.3	495.7	512.0	538.2	568.9	577.8	598.6	619.9	624.3
15°	492.2	491.7	494.7	504.1	521.9	549.1	586.7	600.1	626.3	652.0	659.0
17.5°	527.9	525.4	522.4	523.4	533.8	562.0	609.5	625.8	658.5	689.1	695.1
20°	591.2	584.7	576.8	566.4	561.5	580.8	635.7	654.5	694.1	729.2	730.2
22.5°	686.7	684.2	665.9	635.7	614.4	614.9	666.4	688.1	736.6	775.2	769.8
25°	819.7	818.3	790.1	740.6	685.2	666.4	705.5	727.7	787.1	828.1	810.8
27.5°	985.0	974.6	941.4	874.6	792.0	733.2	754.9	774.7	840.5	879.1	846.4
30°	1128.9	1129.4	1098.3	1028.5	935.5	833.6	815.3	832.6	889.5	930.1	890.5
32.5°	1267.4	1271.9	1237.8	1174.9	1073.0	964.7	901.9	904.8	952.3	996.3	948.4
35°	1396.1	1399.5	1375.8	1322.4	1227.4	1101.7	1022.6	1021.1	1046.8	1091.8	1029.0
37.5°	1540.0	1543.5	1520.2	1472.3	1383.2	1258.5	1159.6	1157.6	1168.0	1204.6	1132.9
40°	1693.4	1699.8	1674.1	1633.5	1548.4	1443.1	1318.9	1301.1	1290.7	1333.7	1267.4
42.5°	1848.7	1858.6	1849.7	1809.2	1736.4	1649.4	1525.7	1498.0	1475.7	1529.6	1459.4
45°	2041.7	2053.5	2049.6	2018.4	1962.0	1891.3	1774.5	1742.4	1732.0	1781.9	1698.3
47.5°	2227.2	2240.1	2254.4	2247.5	2207.4	2174.7	2045.1	2026.8	2023.9	2077.3	1947.7
50°	2365.2	2377.1	2432.0	2471.6	2498.8	2491.9	2379.6	2352.3	2347.9	2382.0	2210.9
52.5°	2464.2	2475.5	2551.2	2674.9	2774.8	2829.3	2716.0	2710.0	2685.8	2673.9	2457.2
55°	2540.8	2556.7	2636.3	2823.3	3024.7	3145.4	3074.6	3053.4	2991.0	2922.8	2685.8
57.5°	2556.2	2562.6	2674.9	2927.2	3218.6	3414.0	3414.0	3376.9	3256.7	3162.2	2950.0
60°	2418.6	2438.4	2590.3	2918.8	3301.7	3589.6	3695.5	3669.8	3507.5	3391.2	3204.2
62.5°	2113.4	2135.7	2320.7	2717.4	3218.6	3625.7	3908.7	3904.8	3721.7	3580.7	3415.0
65°	1620.7	1637.0	1798.3	2273.2	2867.3	3486.7	4061.1	4072.0	3890.9	3705.9	3487.7
67.5°	814.3	825.7	999.8	1552.9	2272.7	3086.5	4050.7	4099.2	3942.3	3639.6	3210.2
70°	284.5	295.8	378.0	666.4	1383.2	2356.8	3700.4	3779.6	3640.1	3106.8	2368.2
72.5°	97.5	102.9	156.8	247.4	538.2	1397.1	2813.9	2933.1	2683.3	2085.7	1360.9
75°	55.4	58.9	84.1	134.1	225.6	459.6	1596.4	1669.6	1564.3	1136.8	560.0
77.5°	37.6	40.6	52.4	76.2	124.7	147.9	651.0	819.7	714.9	371.0	143.0
80°	22.3	24.2	32.2	45.0	63.8	57.4	139.5	185.5	238.9	110.8	43.0
82.5°	10.4	11.9	20.8	29.7	32.2	24.2	41.1	50.0	67.3	54.4	17.8
85°	0.0	0.0	6.9	12.4	11.9	6.9	11.4	12.4	18.3	27.2	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	3.0	5.4	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631843  
 CATALOG NUMBER: GWS-SA2B-740-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	554.1	550.6	554.6	552.6	554.6	554.1	550.1	547.6	547.6	543.2	541.7
5°	561.0	557.5	558.5	554.1	553.1	550.6	545.7	543.7	543.7	539.2	537.8
7.5°	576.3	570.9	569.9	561.0	557.0	550.1	541.2	537.8	537.3	532.8	531.3
10°	600.6	594.1	589.7	578.3	566.9	553.1	534.3	518.5	509.6	497.7	496.7
12.5°	630.3	622.3	615.4	598.1	579.3	548.1	492.7	434.9	399.2	371.0	373.0
15°	663.4	656.0	645.1	618.9	580.3	499.2	383.4	294.4	250.8	227.6	226.6
17.5°	699.5	688.6	670.8	635.2	549.1	381.4	249.3	176.1	153.4	145.4	143.5
20°	733.2	719.8	697.5	638.7	459.1	258.2	155.8	136.5	132.6	130.1	130.1
22.5°	768.8	752.0	718.8	612.0	341.4	165.2	132.6	128.1	125.2	121.7	121.2
25°	804.9	783.1	738.1	542.2	223.6	130.1	124.2	119.2	113.8	108.3	106.9
27.5°	835.6	807.4	752.9	438.3	143.5	117.2	113.3	104.9	97.5	91.5	90.5
30°	872.2	836.1	759.4	320.6	112.8	103.4	97.5	88.6	79.6	73.7	71.7
32.5°	921.2	881.6	749.5	208.8	99.9	91.0	81.6	71.2	62.3	55.9	54.9
35°	997.3	950.3	704.0	133.1	90.5	78.7	67.3	56.4	49.0	44.0	43.0
37.5°	1090.3	1046.8	629.3	99.9	81.1	68.3	54.9	44.5	39.1	35.6	34.6
40°	1228.4	1167.5	536.8	87.6	71.7	57.9	45.0	36.6	32.7	29.7	28.7
42.5°	1407.5	1310.0	430.4	79.6	62.8	48.5	36.6	30.2	26.7	24.7	24.2
45°	1616.7	1449.0	318.1	71.7	54.4	40.1	30.2	24.7	22.3	20.8	20.3
47.5°	1830.9	1570.7	219.7	63.3	46.5	33.1	25.2	21.3	19.3	17.3	16.8
50°	2059.5	1673.6	149.9	54.9	39.6	27.2	21.8	19.3	16.8	15.3	14.8
52.5°	2227.2	1711.7	104.4	47.5	33.6	23.3	19.3	17.3	15.3	13.4	12.9
55°	2382.0	1710.7	79.2	40.1	28.7	20.3	17.3	15.3	13.4	11.9	11.4
57.5°	2536.4	1697.4	62.3	34.1	24.7	18.3	15.3	13.4	12.4	10.4	9.9
60°	2636.3	1646.9	48.5	28.7	21.3	15.8	13.4	11.9	10.4	8.9	8.4
62.5°	2689.2	1576.6	37.1	22.8	17.3	13.9	11.9	10.4	8.9	7.4	6.9
65°	2617.5	1452.0	29.2	17.8	13.4	11.9	9.9	8.4	6.9	5.4	4.9
67.5°	2299.4	1224.4	22.8	14.3	10.4	8.9	8.4	6.9	4.9	4.0	3.5
70°	1625.1	838.5	17.8	10.9	7.9	6.9	6.4	5.4	4.0	3.0	2.5
72.5°	892.0	423.0	12.9	7.9	5.9	5.4	4.9	4.5	3.5	2.5	2.5
75°	343.3	116.3	9.4	5.4	4.0	4.0	3.5	3.5	3.0	2.0	2.0
77.5°	89.5	34.6	5.9	3.5	2.5	2.5	2.5	2.0	2.0	1.5	1.5
80°	28.7	11.4	3.5	2.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0
82.5°	9.4	4.0	2.0	2.0	1.5	1.0	1.0	0.5	0.5	0.0	0.0
85°	3.5	2.0	1.5	1.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	0.5	0.0	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)