

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: P631953

Luminaire Tested: GWS-SA2B-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631953  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

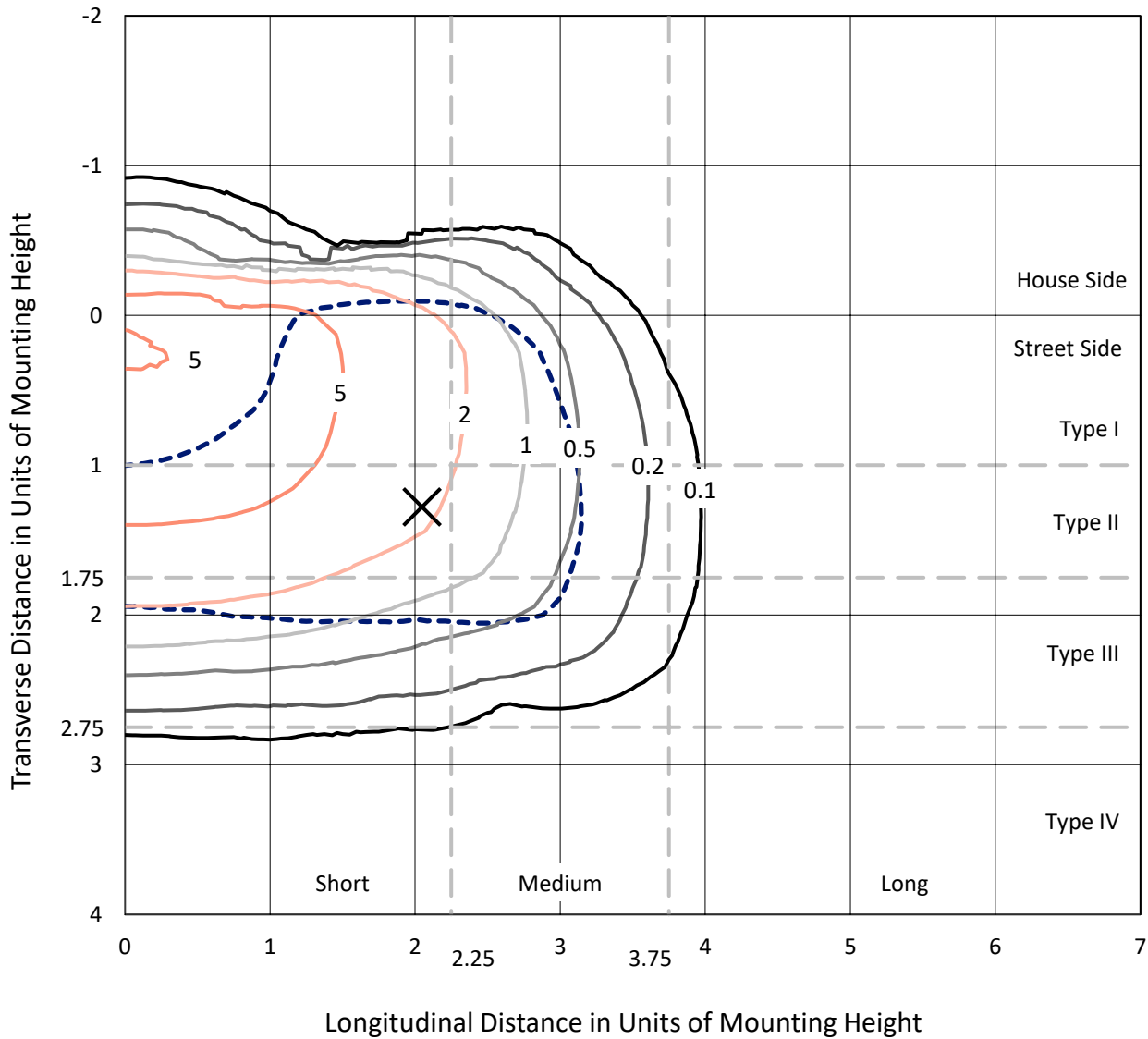
Lumens per Lamp: N/A  
Luminaire Lumens: 5111.6 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

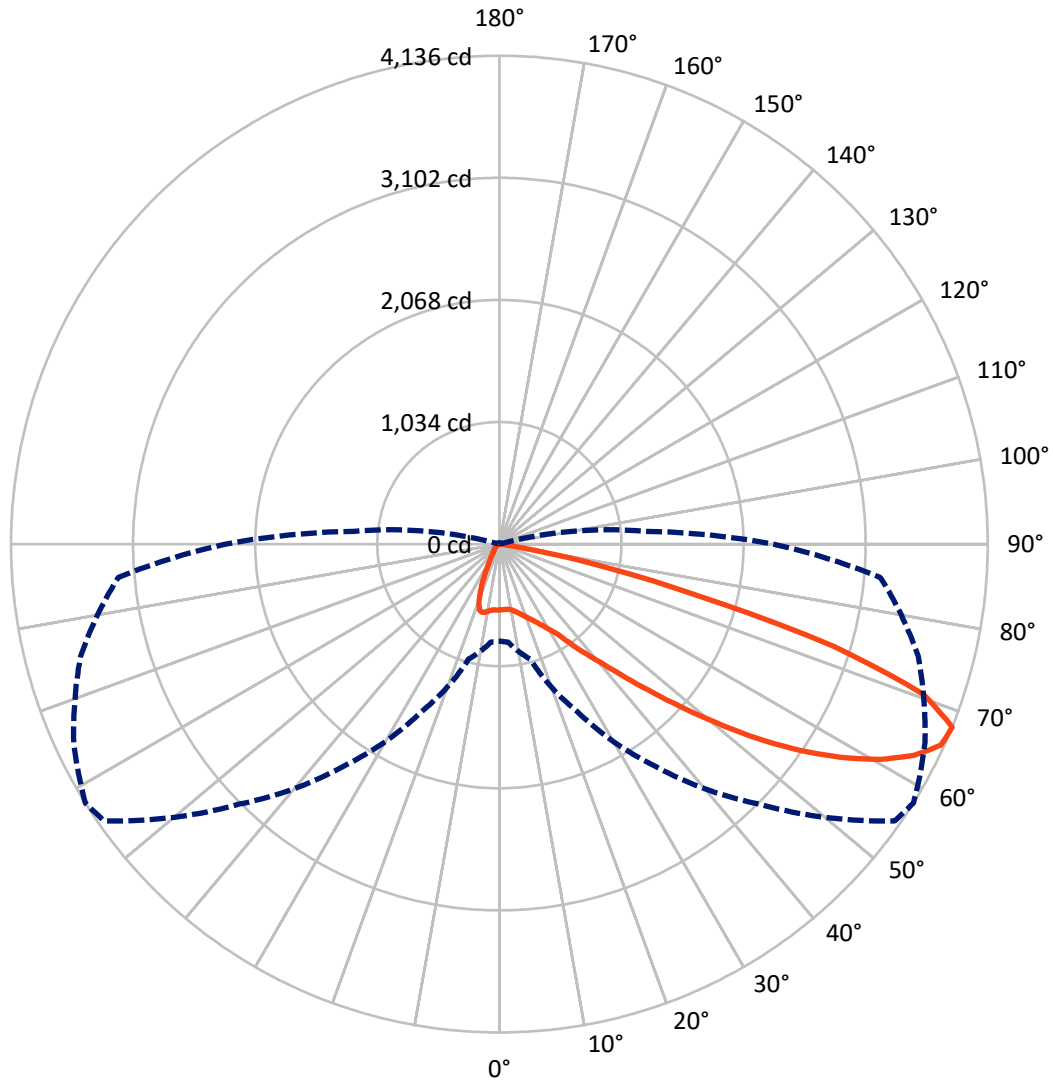
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P631953  
CATALOG NUMBER: GWS-SA2B-760-U-T3-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631953

CATALOG NUMBER: GWS-SA2B-760-U-T3-W-HSS

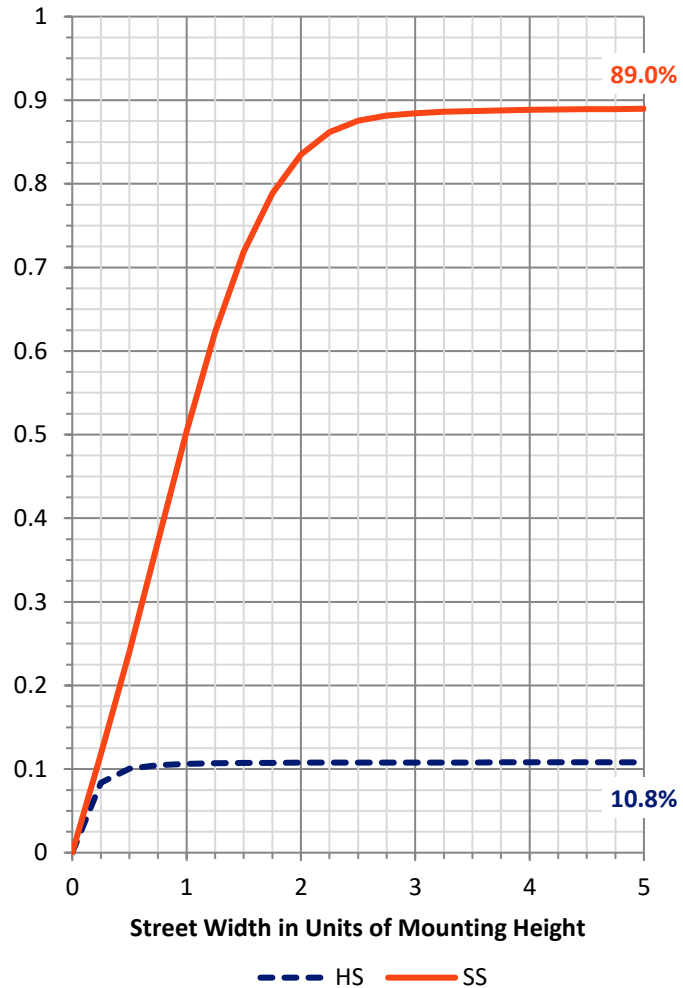
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	557.7	0.0	557.7
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4553.9	0.0	4553.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	5111.6	0.0	5111.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.0
10°-20°	146.9	2.9
20°-30°	256.4	5.0
30°-40°	458.0	9.0
40°-50°	837.1	16.4
50°-60°	1392.2	27.2
60°-70°	1512.1	29.6
70°-80°	444.0	8.7
80°-90°	12.6	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°	5111.6	100.0
0°-180°	5111.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631953

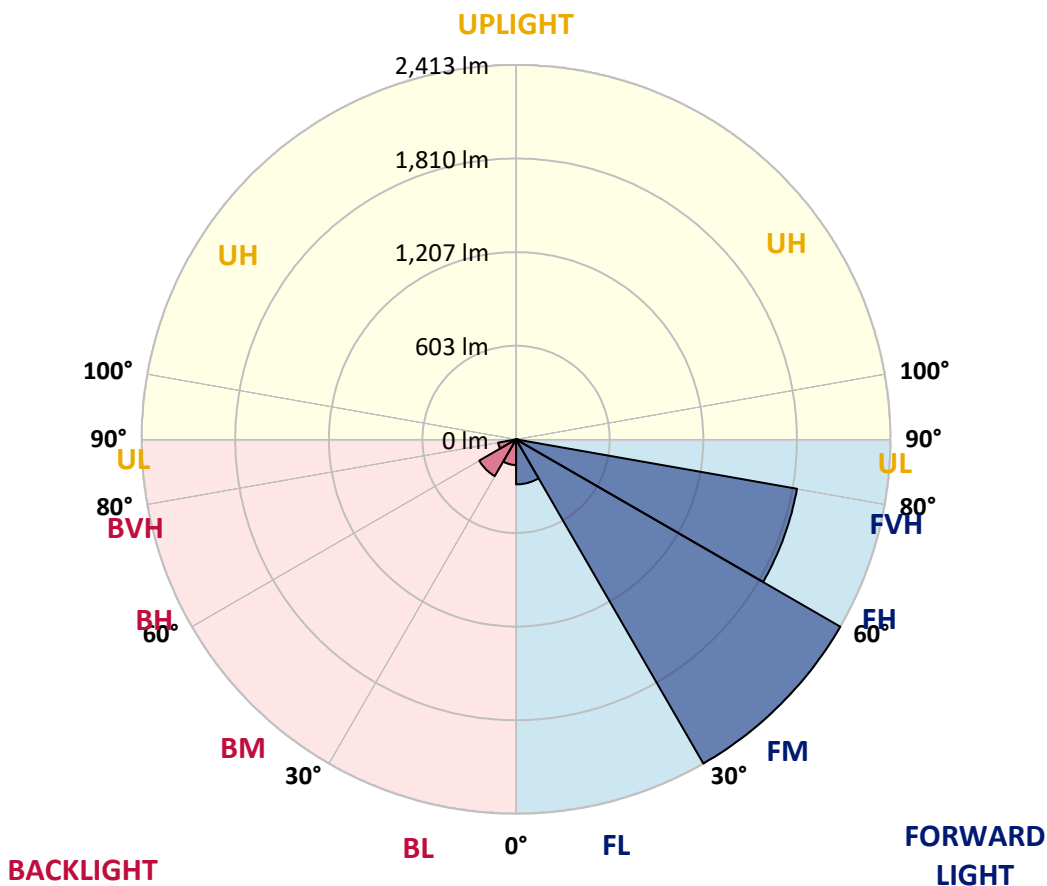
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.3	5.7			
FM (30°-60°)	2413.3	47.2			
FH (60°-80°)	1838.4	36.0			G2/5000
FVH (80°-90°)	12.0	0.2			G1/100
BL (0°-30°)	165.4	3.2	B1/500		
BM (30°-60°)	273.9	5.4	B1/1000		
BH (60°-80°)	117.7	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





REPORT NUMBER: P631953

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0
2.5°	546.5	545.5	545.5	549.5	550.0	552.0	556.5	557.0	559.5	558.5	555.0
5°	518.1	518.6	521.6	528.6	534.6	542.0	553.0	555.5	561.0	564.0	562.0
7.5°	491.6	492.1	496.6	507.6	519.1	534.1	552.0	557.0	568.0	576.0	576.5
10°	481.6	481.1	485.6	498.1	513.1	534.1	560.0	566.5	583.0	596.9	599.4
12.5°	484.6	484.1	488.6	500.1	516.6	543.0	574.0	583.0	603.9	625.4	629.9
15°	496.6	496.1	499.1	508.6	526.6	554.0	591.9	605.4	631.9	657.8	664.8
17.5°	532.6	530.1	527.1	528.1	538.5	567.0	614.9	631.4	664.3	695.3	701.3
20°	596.4	590.0	582.0	571.5	566.5	586.0	641.4	660.3	700.3	735.7	736.7
22.5°	692.8	690.3	671.8	641.4	619.9	620.4	672.3	694.3	743.2	782.1	776.6
25°	827.0	825.5	797.1	747.2	691.3	672.3	711.7	734.2	794.1	835.5	818.0
27.5°	993.7	983.3	949.8	882.4	799.1	739.7	761.6	781.6	848.0	886.9	854.0
30°	1139.0	1139.5	1108.0	1037.7	943.8	841.0	822.5	840.0	897.4	938.3	898.4
32.5°	1278.7	1283.2	1248.8	1185.4	1082.6	973.3	909.9	912.9	960.8	1005.2	956.8
35°	1408.5	1412.0	1388.0	1334.1	1238.3	1111.5	1031.7	1030.2	1056.1	1101.5	1038.2
37.5°	1553.7	1557.2	1533.8	1485.4	1395.5	1269.7	1169.9	1167.9	1178.4	1215.3	1143.0
40°	1708.5	1715.0	1689.0	1648.1	1562.2	1455.9	1330.6	1312.7	1302.2	1345.6	1278.7
42.5°	1865.2	1875.2	1866.2	1825.3	1751.9	1664.0	1539.3	1511.3	1488.9	1543.3	1472.4
45°	2059.8	2071.8	2067.8	2036.4	1979.5	1908.1	1790.3	1757.9	1747.4	1797.8	1713.5
47.5°	2247.0	2260.0	2274.5	2267.5	2227.0	2194.1	2063.3	2044.9	2041.9	2095.8	1965.0
50°	2386.3	2398.2	2453.6	2493.6	2521.0	2514.0	2400.7	2373.3	2368.8	2403.2	2230.5
52.5°	2486.1	2497.6	2573.9	2698.7	2799.5	2854.4	2740.1	2734.1	2709.7	2697.7	2479.1
55°	2563.5	2579.4	2659.8	2848.4	3051.6	3173.4	3102.0	3080.5	3017.6	2948.8	2709.7
57.5°	2578.9	2585.4	2698.7	2953.3	3247.2	3444.4	3444.4	3407.0	3285.7	3190.3	2976.2
60°	2440.2	2460.1	2613.4	2944.8	3331.1	3621.6	3728.4	3702.4	3538.7	3421.4	3232.8
62.5°	2132.2	2154.7	2341.3	2741.6	3247.2	3658.0	3943.5	3939.5	3754.8	3612.6	3445.4
65°	1635.1	1651.6	1814.3	2293.4	2892.9	3517.8	4097.2	4108.2	3925.5	3738.9	3518.8
67.5°	821.5	833.0	1008.7	1566.7	2292.9	3114.0	4086.7	4135.7	3977.4	3672.0	3238.8
70°	287.0	298.5	381.3	672.3	1395.5	2377.8	3733.4	3813.2	3672.5	3134.4	2389.3
72.5°	98.3	103.8	158.2	249.6	543.0	1409.5	2839.0	2959.2	2707.2	2104.3	1373.1
75°	55.9	59.4	84.8	135.3	227.6	463.7	1610.6	1684.5	1578.2	1147.0	565.0
77.5°	37.9	40.9	52.9	76.9	125.8	149.2	656.8	827.0	721.2	374.3	144.2
80°	22.5	24.5	32.4	45.4	64.4	57.9	140.8	187.2	241.1	111.8	43.4
82.5°	10.5	12.0	21.0	29.9	32.4	24.5	41.4	50.4	67.9	54.9	18.0
85°	0.0	0.0	7.0	12.5	12.0	7.0	11.5	12.5	18.5	27.5	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	3.0	5.5	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: P631953

CATALOG NUMBER: GWS-SA2B-760-U-T3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0	557.0
2.5°	559.0	555.5	559.5	557.5	559.5	559.0	555.0	552.5	552.5	548.0	546.5
5°	566.0	562.5	563.5	559.0	558.0	555.5	550.5	548.5	548.5	544.0	542.5
7.5°	581.5	576.0	575.0	566.0	562.0	555.0	546.0	542.5	542.0	537.5	536.0
10°	605.9	599.4	594.9	583.5	572.0	558.0	539.0	523.1	514.1	502.1	501.1
12.5°	635.9	627.9	620.9	603.4	584.5	553.0	497.1	438.7	402.8	374.3	376.3
15°	669.3	661.8	650.8	624.4	585.5	503.6	386.8	297.0	253.1	229.6	228.6
17.5°	705.7	694.8	676.8	640.9	554.0	384.8	251.6	177.7	154.7	146.7	144.7
20°	739.7	726.2	703.8	644.4	463.2	260.5	157.2	137.8	133.8	131.3	131.3
22.5°	775.6	758.7	725.2	617.4	344.4	166.7	133.8	129.3	126.3	122.8	122.3
25°	812.1	790.1	744.7	547.0	225.6	131.3	125.3	120.3	114.8	109.3	107.8
27.5°	843.0	814.6	759.7	442.2	144.7	118.3	114.3	105.8	98.3	92.3	91.3
30°	879.9	843.5	766.1	323.4	113.8	104.3	98.3	89.3	80.4	74.4	72.4
32.5°	929.4	889.4	756.2	210.6	100.8	91.8	82.4	71.9	62.9	56.4	55.4
35°	1006.2	958.8	710.2	134.3	91.3	79.4	67.9	56.9	49.4	44.4	43.4
37.5°	1100.0	1056.1	634.9	100.8	81.9	68.9	55.4	44.9	39.4	35.9	34.9
40°	1239.3	1177.9	541.5	88.3	72.4	58.4	45.4	36.9	32.9	29.9	28.9
42.5°	1420.0	1321.7	434.2	80.4	63.4	48.9	36.9	30.4	27.0	25.0	24.5
45°	1631.1	1461.9	320.9	72.4	54.9	40.4	30.4	25.0	22.5	21.0	20.5
47.5°	1847.2	1584.7	221.6	63.9	46.9	33.4	25.5	21.5	19.5	17.5	17.0
50°	2077.8	1688.5	151.2	55.4	39.9	27.5	22.0	19.5	17.0	15.5	15.0
52.5°	2247.0	1726.9	105.3	47.9	33.9	23.5	19.5	17.5	15.5	13.5	13.0
55°	2403.2	1725.9	79.9	40.4	28.9	20.5	17.5	15.5	13.5	12.0	11.5
57.5°	2559.0	1712.5	62.9	34.4	25.0	18.5	15.5	13.5	12.5	10.5	10.0
60°	2659.8	1661.6	48.9	28.9	21.5	16.0	13.5	12.0	10.5	9.0	8.5
62.5°	2713.2	1590.7	37.4	23.0	17.5	14.0	12.0	10.5	9.0	7.5	7.0
65°	2640.8	1464.9	29.4	18.0	13.5	12.0	10.0	8.5	7.0	5.5	5.0
67.5°	2319.9	1235.3	23.0	14.5	10.5	9.0	8.5	7.0	5.0	4.0	3.5
70°	1639.6	846.0	18.0	11.0	8.0	7.0	6.5	5.5	4.0	3.0	2.5
72.5°	899.9	426.7	13.0	8.0	6.0	5.5	5.0	4.5	3.5	2.5	2.5
75°	346.4	117.3	9.5	5.5	4.0	4.0	3.5	3.5	3.0	2.0	2.0
77.5°	90.3	34.9	6.0	3.5	2.5	2.5	2.5	2.0	2.0	1.5	1.5
80°	28.9	11.5	3.5	2.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0
82.5°	9.5	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)