

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: P631957

Luminaire Tested: GWS-SA2B-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

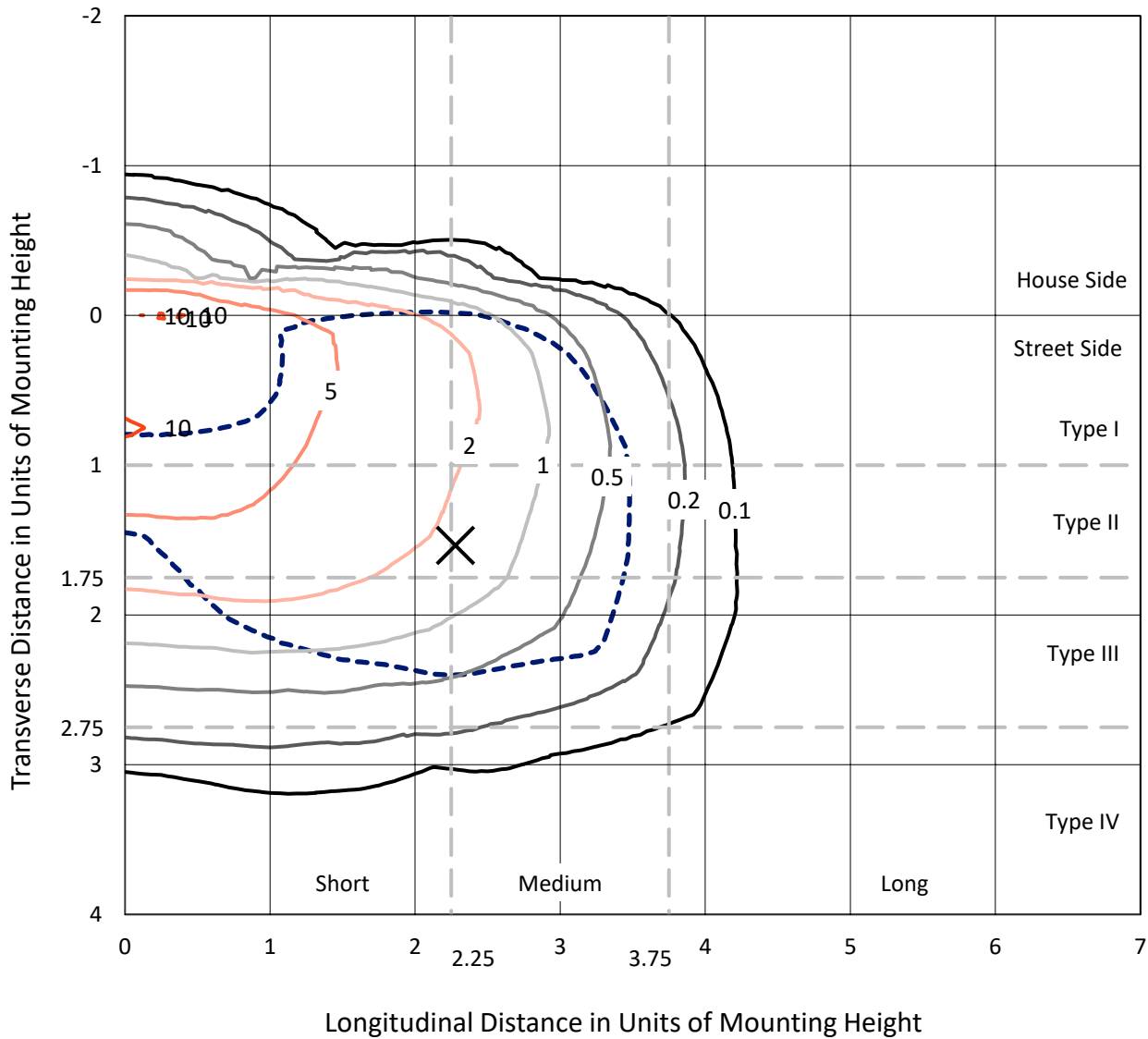
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

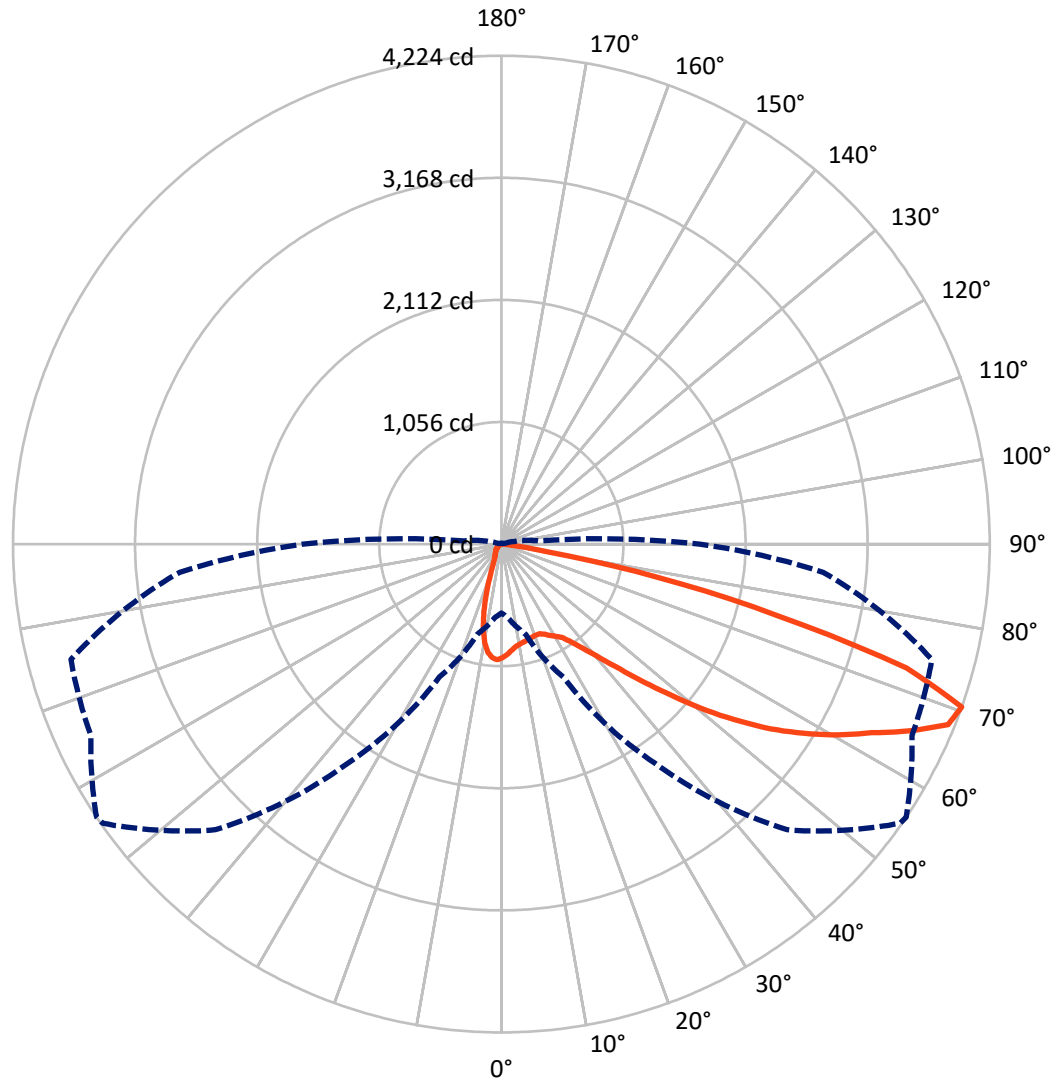
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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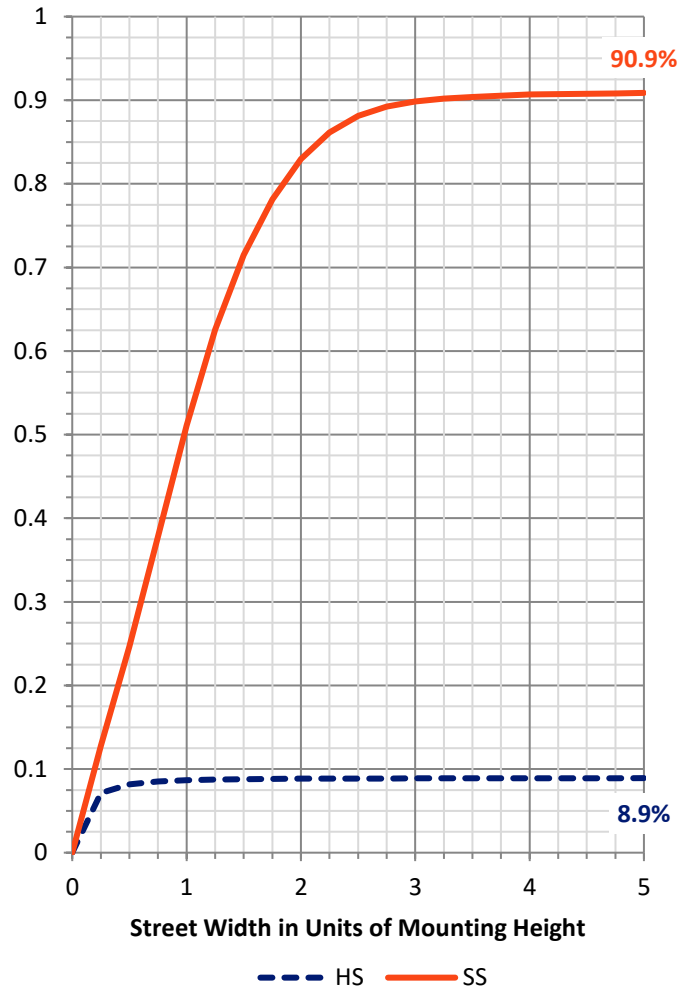
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.6	0.0	489.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	4960.9	0.0	4960.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	5450.5	0.0	5450.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	1.5
10°-20°	189.8	3.5
20°-30°	300.6	5.5
30°-40°	518.4	9.5
40°-50°	875.4	16.1
50°-60°	1286.3	23.6
60°-70°	1524.9	28.0
70°-80°	650.3	11.9
80°-90°	20.4	0.4
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°	5450.5	100.0
0°-180°	5450.5	100.0

Coefficient of Utilization



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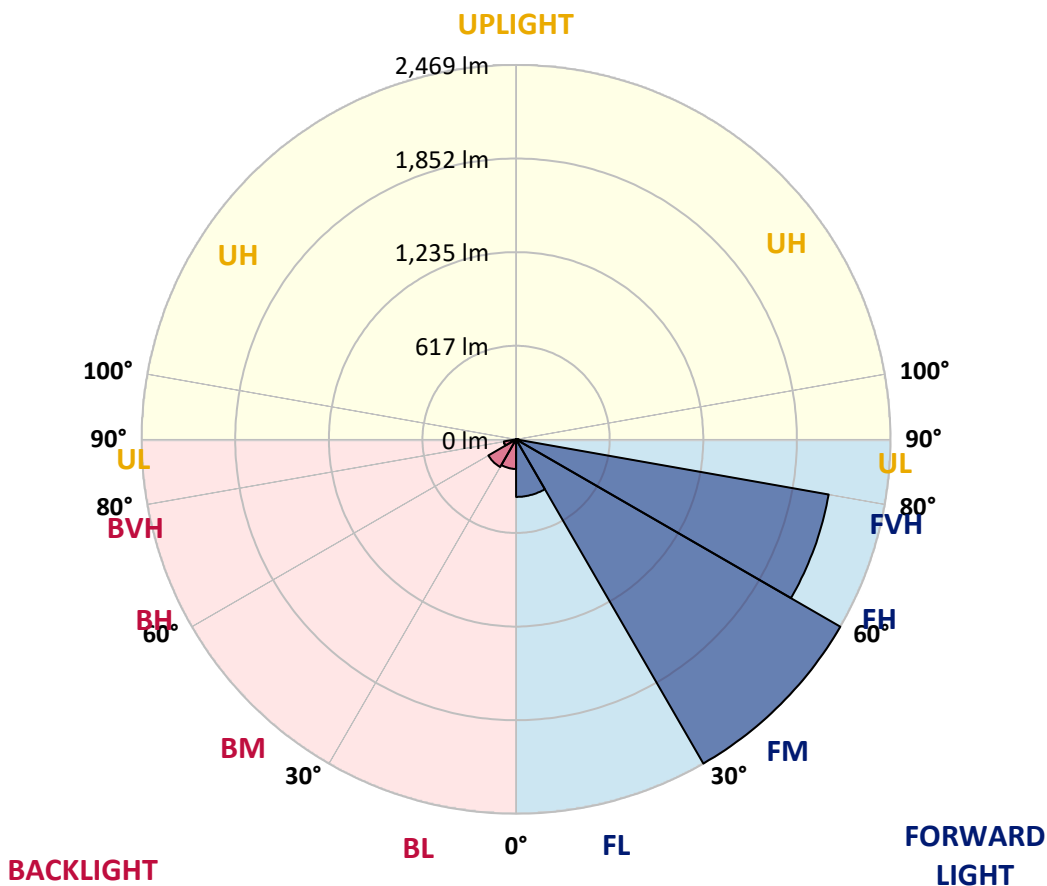
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.8	7.0			
FM (30°-60°)	2469.2	45.3			
FH (60°-80°)	2093.6	38.4			G2/5000
FVH (80°-90°)	18.3	0.3			G1/100
BL (0°-30°)	195.0	3.6	B1/500		
BM (30°-60°)	210.9	3.9	B0/220		
BH (60°-80°)	81.7	1.5	B0/110		G0/110
BVH (80°-90°)	2.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	914.9	913.4	914.4	921.9	935.9	942.4	953.3	955.3	964.3	975.8	980.3
5°	855.5	850.5	853.0	863.5	879.5	897.4	917.9	923.4	945.8	971.3	990.3
7.5°	801.1	795.6	801.6	818.1	840.5	860.0	890.4	893.9	929.9	974.8	1009.2
10°	715.7	717.2	729.2	758.2	792.6	833.0	874.0	879.0	923.4	986.3	1039.7
12.5°	650.4	646.9	659.8	692.8	741.2	800.1	861.5	868.0	923.9	1003.7	1078.6
15°	619.9	618.9	624.4	648.4	695.3	764.7	850.0	858.5	930.4	1019.7	1115.5
17.5°	620.9	619.4	618.9	632.9	667.8	738.2	837.5	848.5	935.9	1037.2	1154.5
20°	664.3	657.3	644.9	638.4	659.3	721.2	829.0	841.5	943.8	1055.7	1195.9
22.5°	755.2	757.7	724.2	689.3	679.3	723.2	828.1	842.5	961.3	1084.6	1246.8
25°	936.9	932.9	871.0	792.6	738.2	746.2	845.5	863.0	995.8	1126.0	1294.7
27.5°	1164.5	1168.0	1083.1	958.3	844.5	793.6	877.5	894.9	1035.7	1152.0	1326.7
30°	1412.5	1409.0	1318.2	1179.9	995.3	872.5	909.4	924.9	1055.7	1166.0	1359.6
32.5°	1647.1	1639.1	1549.3	1404.5	1187.4	996.8	953.3	962.3	1082.1	1196.4	1404.0
35°	1847.3	1846.8	1768.4	1614.2	1385.1	1152.5	1028.7	1036.2	1131.5	1244.8	1469.4
37.5°	2053.9	2046.9	1959.1	1818.3	1588.2	1323.2	1144.0	1141.0	1209.4	1316.2	1549.8
40°	2223.6	2219.1	2151.7	2016.5	1799.4	1511.9	1283.8	1274.8	1301.7	1415.0	1661.6
42.5°	2349.4	2349.9	2328.9	2246.6	2023.0	1730.0	1459.4	1445.5	1445.0	1564.3	1809.3
45°	2444.7	2451.2	2482.7	2470.2	2287.0	1984.0	1684.6	1670.1	1645.6	1757.9	1978.5
47.5°	2489.1	2497.6	2592.5	2642.4	2518.1	2236.1	1952.6	1922.1	1874.2	2015.5	2167.7
50°	2484.7	2499.6	2631.9	2783.6	2727.7	2491.6	2244.6	2230.1	2151.7	2288.0	2354.9
52.5°	2382.8	2414.8	2634.4	2869.5	2888.9	2727.2	2546.5	2519.6	2481.7	2572.5	2530.6
55°	2106.3	2145.2	2529.1	2896.9	3014.7	2932.9	2842.0	2820.1	2757.2	2841.0	2683.8
57.5°	1956.1	1989.5	2307.5	2883.5	3121.5	3123.0	3105.1	3087.1	3035.2	3106.6	2863.5
60°	1865.7	1899.2	2189.2	2834.0	3218.4	3323.7	3352.1	3350.1	3275.3	3408.5	3074.1
62.5°	1733.5	1779.4	2065.9	2705.8	3287.2	3521.3	3607.2	3593.7	3510.4	3723.0	3282.8
65°	1466.4	1506.4	1813.3	2494.1	3246.8	3685.1	3883.7	3890.7	3794.4	4019.0	3447.5
67.5°	1028.2	1057.6	1362.6	2049.9	2972.3	3739.0	4166.7	4166.2	4002.0	4170.7	3374.6
70°	596.0	636.4	805.1	1267.3	2312.5	3493.9	4209.1	4223.6	3917.6	3853.8	2792.6
72.5°	230.6	264.0	456.2	673.3	1205.9	2676.3	3620.7	3663.1	3278.8	2972.8	1943.6
75°	68.9	76.9	214.6	358.4	484.2	1292.7	2451.2	2463.2	2249.1	1854.3	996.3
77.5°	51.4	56.9	93.8	181.2	169.7	391.8	1268.3	1385.1	1193.9	662.3	274.5
80°	34.9	41.4	66.9	88.3	62.9	104.3	356.4	391.3	364.4	148.7	68.9
82.5°	15.5	20.0	47.4	44.4	23.0	29.9	109.8	116.8	75.4	44.9	24.0
85°	1.5	2.0	18.0	19.5	8.5	7.0	23.0	23.0	16.5	15.5	10.0
87.5°	0.0	0.0	0.5	1.0	1.0	1.5	2.0	2.5	3.0	4.0	5.0
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°	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8	982.8
2.5°	991.8	985.8	993.3	999.3	1000.7	989.8	983.3	973.8	971.8	972.3	969.8
5°	1005.2	1002.2	1007.7	1001.2	984.3	952.3	924.9	894.4	878.0	868.5	867.5
7.5°	1030.2	1028.7	1022.7	993.3	940.4	869.5	801.1	734.2	692.8	677.8	675.3
10°	1067.1	1064.1	1039.7	969.8	857.0	720.7	605.9	510.1	451.7	434.7	413.8
12.5°	1109.6	1103.6	1050.2	919.4	731.2	542.6	399.3	292.0	241.6	226.6	226.6
15°	1150.5	1137.5	1044.2	836.0	576.5	352.9	223.1	168.7	153.2	149.2	149.2
17.5°	1192.4	1167.5	1020.7	722.2	398.3	208.6	148.7	138.3	136.3	136.8	137.3
20°	1231.8	1192.9	979.3	585.5	254.1	145.7	133.3	130.8	129.8	130.8	130.3
22.5°	1274.8	1216.4	916.4	436.2	165.2	131.3	126.8	124.8	123.8	125.3	125.3
25°	1317.2	1233.3	833.0	293.5	131.3	122.3	119.8	117.8	116.8	117.3	117.3
27.5°	1339.2	1226.9	723.7	187.2	117.8	113.3	110.8	108.3	106.8	106.3	106.8
30°	1354.1	1206.9	590.0	133.3	106.8	101.3	98.8	96.8	92.8	90.3	91.3
32.5°	1377.6	1186.9	444.7	111.8	97.8	89.3	85.4	80.4	74.9	72.4	72.4
35°	1405.5	1159.5	312.0	100.8	88.3	79.4	71.9	63.4	56.9	54.9	54.9
37.5°	1442.5	1133.5	207.6	93.3	80.4	70.9	60.4	50.4	43.4	42.4	41.9
40°	1497.9	1111.6	146.2	87.8	73.4	61.9	49.4	38.9	33.9	32.4	32.4
42.5°	1569.8	1089.1	115.8	82.4	67.4	53.4	39.4	30.9	27.0	26.0	25.5
45°	1658.6	1062.6	100.8	77.4	61.4	44.4	31.4	26.0	23.0	22.0	22.0
47.5°	1754.9	1026.7	93.8	70.9	54.4	35.9	26.5	22.5	21.0	20.5	20.0
50°	1849.8	978.3	87.8	64.9	46.4	29.4	23.0	20.5	19.5	19.0	19.0
52.5°	1932.6	921.9	80.4	57.9	37.9	25.5	20.5	19.0	18.0	17.0	16.5
55°	2003.5	860.5	70.9	49.9	30.9	22.5	19.0	17.5	16.5	15.5	15.0
57.5°	2094.8	825.6	56.9	40.4	25.5	20.0	17.5	16.0	15.0	13.5	13.5
60°	2196.2	800.1	42.4	31.9	22.0	18.5	16.0	14.5	13.5	12.0	12.0
62.5°	2277.5	762.2	33.4	26.0	19.0	16.5	14.5	13.0	12.0	10.5	10.5
65°	2308.5	683.8	27.5	20.5	15.5	14.5	13.0	12.0	10.5	9.0	9.0
67.5°	2168.7	527.1	23.0	16.5	13.0	12.5	11.5	11.0	9.0	8.0	7.5
70°	1717.5	321.4	19.0	13.5	11.0	10.5	10.5	9.5	8.0	7.5	7.0
72.5°	1176.9	165.7	15.5	11.0	9.5	9.5	9.0	8.5	7.5	7.0	7.0
75°	611.4	55.4	12.0	8.5	7.5	8.0	8.0	7.5	7.0	7.0	6.5
77.5°	175.2	25.0	9.0	6.5	6.0	6.0	6.5	6.5	6.5	6.0	6.0
80°	45.4	14.5	6.5	5.0	5.0	5.0	5.0	5.5	6.0	5.5	5.5
82.5°	18.5	8.0	4.5	4.0	4.0	4.0	4.0	4.5	5.0	5.0	5.0
85°	11.5	4.0	3.5	3.5	3.5	3.0	3.0	3.5	3.5	4.0	4.0
87.5°	7.0	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
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)