

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: P631949

Luminaire Tested: GWS-SA2B-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5615.2 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

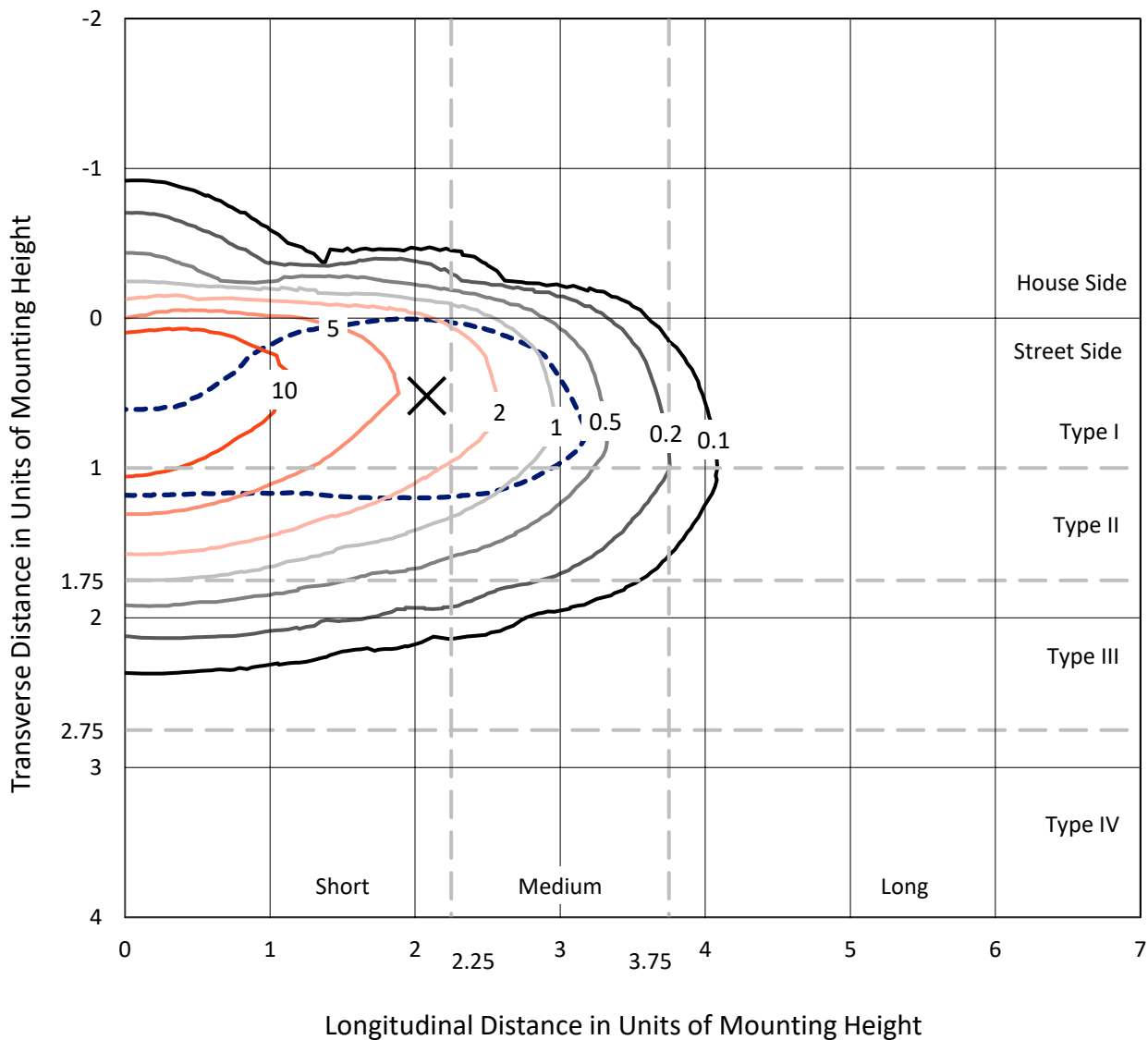
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

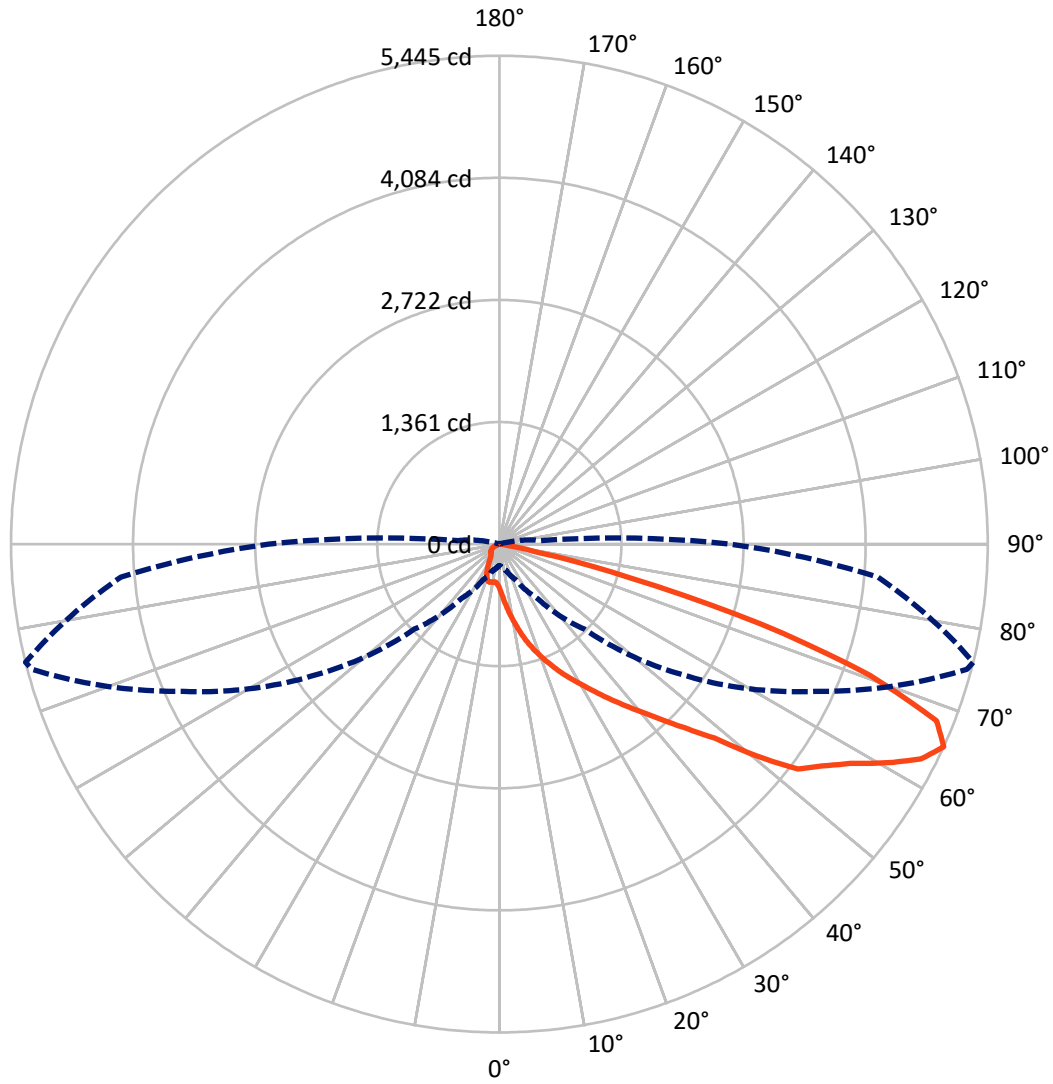
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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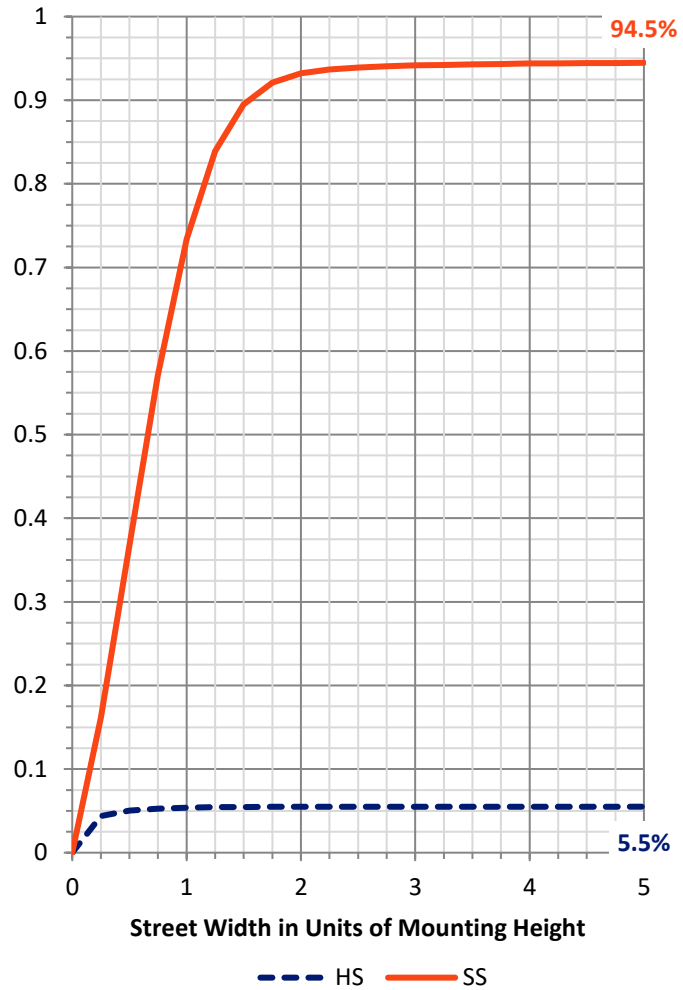
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.5	0.0	310.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5304.7	0.0	5304.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	5615.2	0.0	5615.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.1
10°-20°	229.5	4.1
20°-30°	468.2	8.3
30°-40°	832.7	14.8
40°-50°	1230.9	21.9
50°-60°	1409.3	25.1
60°-70°	1075.3	19.1
70°-80°	301.2	5.4
80°-90°	7.6	0.1
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°	5615.2	100.0
0°-180°	5615.2	100.0

Coefficient of Utilization



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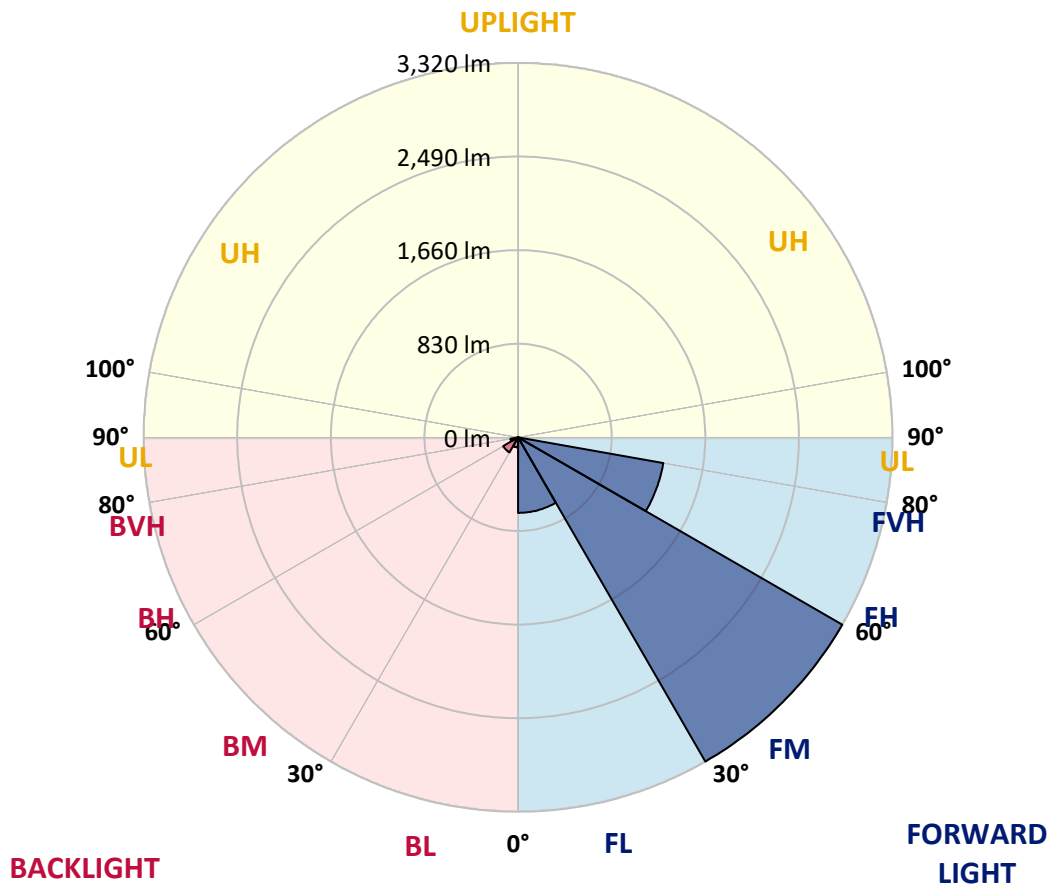
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.6	11.9			
FM (30°-60°)	3319.8	59.1			
FH (60°-80°)	1308.2	23.3			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	88.6	1.6	B0/110		
BM (30°-60°)	153.2	2.7	B0/220		
BH (60°-80°)	68.3	1.2	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: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2
2.5°	766.2	777.7	768.7	753.7	724.8	696.8	660.9	611.5	572.0	567.0	530.1
5°	1034.7	1033.7	1014.3	994.8	964.4	916.4	844.1	752.2	663.9	656.4	573.5
7.5°	1194.5	1196.0	1185.0	1170.0	1140.1	1090.6	1015.3	904.5	775.2	760.2	632.9
10°	1328.7	1328.2	1320.2	1313.3	1286.3	1253.4	1172.5	1050.7	895.0	871.5	699.3
12.5°	1429.6	1433.0	1437.0	1444.0	1432.6	1400.1	1323.7	1191.0	1016.3	990.3	775.2
15°	1509.4	1510.4	1525.4	1552.3	1561.8	1544.9	1475.5	1326.7	1136.1	1113.6	862.5
17.5°	1533.4	1535.4	1560.8	1610.2	1660.2	1669.6	1617.2	1463.5	1253.9	1229.9	947.4
20°	1583.8	1588.3	1607.3	1650.7	1713.6	1764.5	1744.0	1601.8	1371.7	1340.2	1034.2
22.5°	1742.5	1745.0	1738.5	1744.0	1776.5	1835.4	1847.8	1735.5	1492.4	1459.0	1128.1
25°	2015.6	2016.6	1971.1	1928.2	1903.7	1914.7	1942.2	1858.8	1612.2	1579.3	1215.4
27.5°	2299.1	2302.6	2248.2	2175.3	2087.9	2038.0	2030.0	1971.6	1733.0	1696.6	1301.8
30°	2566.1	2566.1	2508.7	2419.9	2303.1	2205.7	2148.3	2085.4	1862.3	1822.4	1390.1
32.5°	2806.2	2804.2	2730.8	2634.5	2519.2	2412.4	2291.6	2204.2	2006.1	1961.6	1491.9
35°	3004.4	2999.4	2916.0	2823.7	2700.4	2621.0	2486.2	2332.0	2161.8	2117.4	1596.8
37.5°	3154.1	3148.6	3072.2	2974.4	2860.1	2808.7	2695.9	2485.3	2326.0	2285.6	1713.1
40°	3235.5	3224.5	3171.6	3098.7	3002.9	2957.9	2911.0	2675.4	2519.2	2468.8	1850.3
42.5°	3259.4	3246.4	3211.5	3177.6	3119.7	3084.2	3134.6	2890.1	2731.3	2687.9	2007.1
45°	3188.5	3181.1	3178.1	3202.5	3213.0	3223.0	3347.3	3127.7	2965.4	2932.5	2204.2
47.5°	3017.8	3015.8	3042.3	3144.1	3254.9	3360.3	3578.4	3420.7	3268.9	3233.5	2479.8
50°	2702.4	2722.8	2796.7	2975.4	3197.0	3438.1	3794.5	3827.0	3760.1	3708.2	2839.1
52.5°	2209.2	2248.7	2414.4	2685.9	3004.4	3416.2	3894.3	4152.4	4220.8	4166.9	3096.7
55°	1733.5	1770.5	1918.2	2262.6	2687.4	3248.9	3898.8	4264.7	4414.0	4364.0	3270.9
57.5°	1291.3	1325.2	1459.5	1788.9	2256.1	2920.0	3792.0	4327.1	4643.1	4611.1	3545.9
60°	844.1	877.5	998.8	1286.8	1750.0	2440.8	3529.0	4314.1	4955.0	4952.0	3883.9
62.5°	468.2	494.7	582.5	807.1	1221.4	1890.3	3115.7	4183.8	5257.0	5276.0	4162.4
65°	239.6	256.6	310.0	443.7	739.2	1340.2	2572.1	3885.4	5396.8	5444.7	4235.8
67.5°	156.7	162.2	175.2	230.6	395.8	843.1	1935.7	3406.7	5200.1	5256.0	3989.7
70°	127.3	131.8	139.3	153.7	204.2	447.7	1271.3	2720.8	4345.1	4383.0	3177.1
72.5°	93.3	99.3	113.8	123.3	147.2	245.6	661.4	1785.9	2983.9	3050.8	1996.6
75°	68.9	72.4	84.4	97.3	120.3	155.2	253.1	938.9	1540.9	1501.9	838.6
77.5°	41.4	43.9	53.9	62.4	85.9	96.8	88.3	346.9	468.7	440.7	202.7
80°	20.5	23.0	35.4	46.9	54.9	38.9	36.9	96.8	104.3	104.3	50.9
82.5°	7.0	9.0	19.0	30.9	27.0	15.0	17.5	25.0	28.0	29.4	15.0
85°	0.0	0.0	4.5	9.0	4.0	2.0	4.5	5.5	7.0	7.5	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.0
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°	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2	497.2
2.5°	510.1	486.7	451.2	419.3	394.8	371.9	354.4	340.4	337.9	329.9	330.9
5°	533.1	490.7	425.3	374.9	339.4	315.5	295.5	280.5	274.0	267.5	262.6
7.5°	568.5	507.1	415.3	353.9	312.5	275.5	244.6	219.6	207.6	200.2	195.2
10°	612.0	530.1	415.8	341.4	280.0	223.6	181.2	153.7	140.8	136.8	136.3
12.5°	663.9	559.0	419.8	321.0	233.1	166.2	134.3	121.8	117.8	114.3	114.3
15°	718.8	591.5	419.8	283.5	177.7	129.8	116.3	108.3	103.3	101.3	100.3
17.5°	776.7	621.9	409.8	232.1	136.3	114.3	103.3	95.8	91.8	88.8	87.8
20°	838.6	650.9	384.8	177.7	116.8	102.3	91.8	84.4	80.4	77.4	77.4
22.5°	901.5	677.8	344.4	136.8	103.3	90.8	80.9	73.9	69.9	66.9	66.9
25°	959.9	695.8	292.5	112.8	93.3	80.9	71.9	64.9	60.4	58.4	57.4
27.5°	1014.3	707.3	235.1	99.3	83.9	72.4	62.9	56.4	52.9	51.4	50.4
30°	1070.7	710.3	179.7	90.3	75.9	63.9	54.9	49.9	46.9	44.9	44.9
32.5°	1125.6	706.8	137.3	82.9	68.9	56.4	48.9	44.4	41.9	40.4	39.9
35°	1181.5	690.8	111.3	76.4	61.9	49.4	43.4	39.9	38.4	36.4	36.4
37.5°	1242.4	669.4	96.8	69.9	54.9	44.4	38.9	36.4	34.4	32.9	32.4
40°	1318.2	644.4	88.8	64.4	48.4	39.9	34.9	32.4	30.9	29.4	29.0
42.5°	1408.1	619.9	84.9	58.4	43.4	35.4	31.4	28.5	27.0	25.0	24.5
45°	1535.4	614.4	80.4	51.9	38.9	31.9	27.5	24.5	22.5	21.0	20.5
47.5°	1740.0	629.9	72.9	44.9	34.4	28.0	23.5	21.0	18.5	17.0	16.0
50°	1943.2	625.9	65.4	38.9	30.4	24.0	20.0	17.5	15.0	13.5	13.0
52.5°	2054.0	607.0	58.4	34.4	26.5	20.5	17.0	14.0	12.5	11.0	10.5
55°	2154.3	599.5	51.4	29.9	22.5	18.0	14.0	11.5	10.5	9.0	8.5
57.5°	2351.0	616.9	45.4	26.0	19.5	15.5	12.0	9.5	8.5	7.0	6.5
60°	2556.6	618.9	38.9	22.5	17.0	13.0	9.5	7.5	6.5	5.0	4.5
62.5°	2663.9	568.5	31.9	19.0	14.0	11.0	8.0	6.0	5.0	3.0	3.0
65°	2574.1	459.7	27.0	15.5	11.0	8.5	6.0	4.5	3.0	1.5	0.5
67.5°	2278.1	326.9	22.5	12.5	8.0	6.0	4.5	3.0	0.5	0.0	0.0
70°	1668.1	186.7	17.5	9.0	6.0	4.0	3.0	1.5	0.0	0.0	0.0
72.5°	1025.2	99.8	13.0	6.0	4.5	3.0	2.5	1.0	0.0	0.0	0.0
75°	388.8	47.9	8.0	4.0	3.5	2.5	1.5	0.5	0.0	0.0	0.0
77.5°	105.3	23.5	4.5	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0
80°	27.5	11.0	3.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	5.0	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.5	0.5	0.5	0.0	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)