

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: P630571

Luminaire Tested: GWS-SA1D-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4779.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

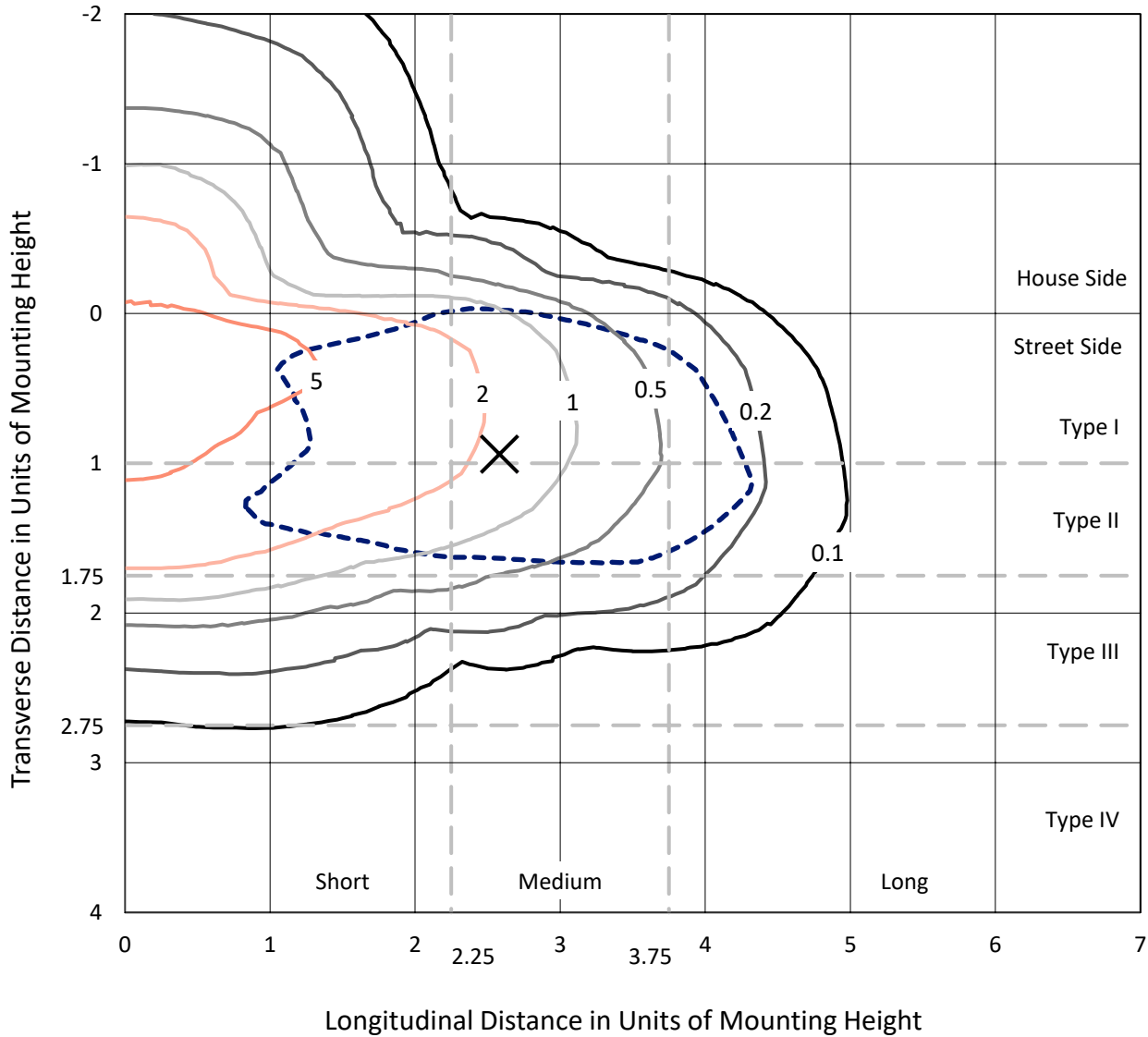
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

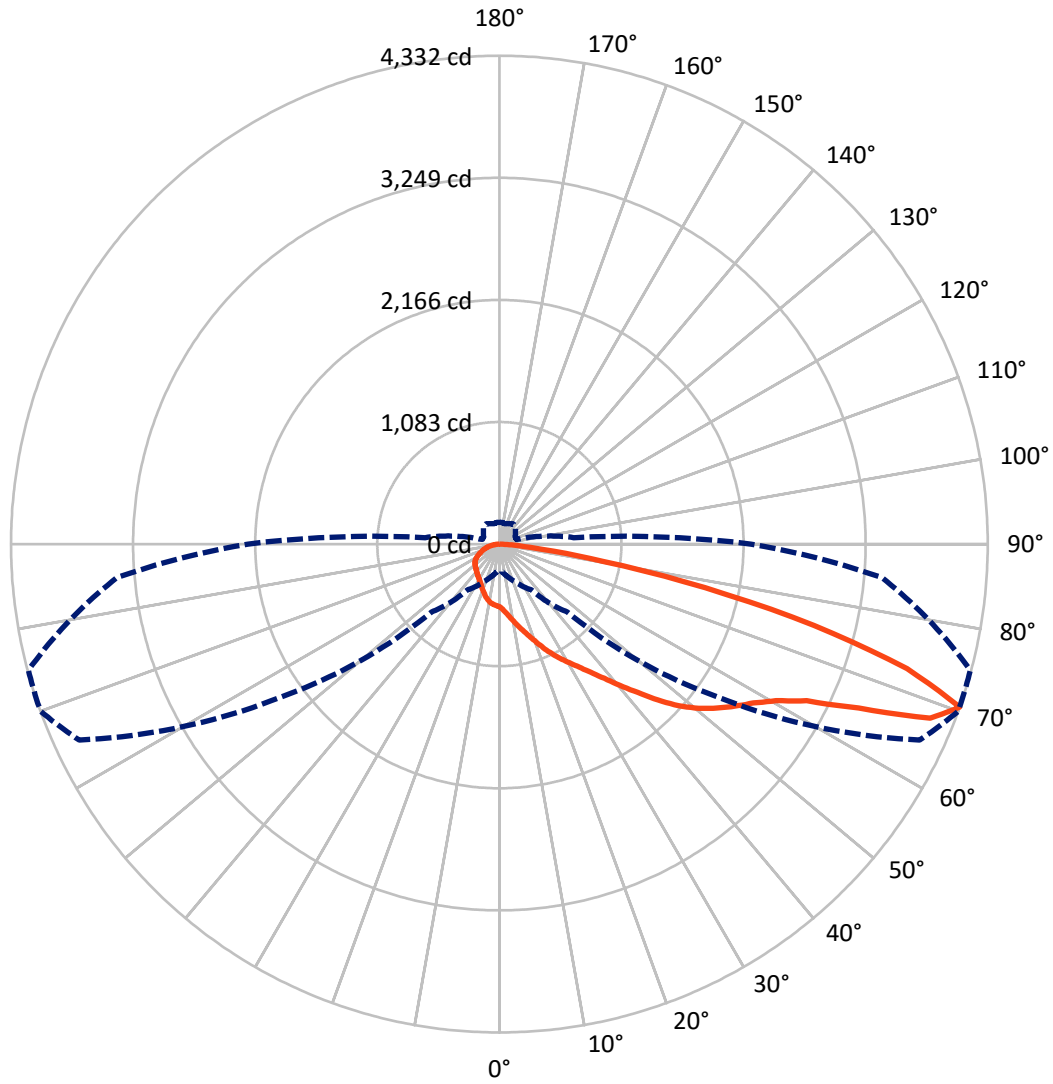
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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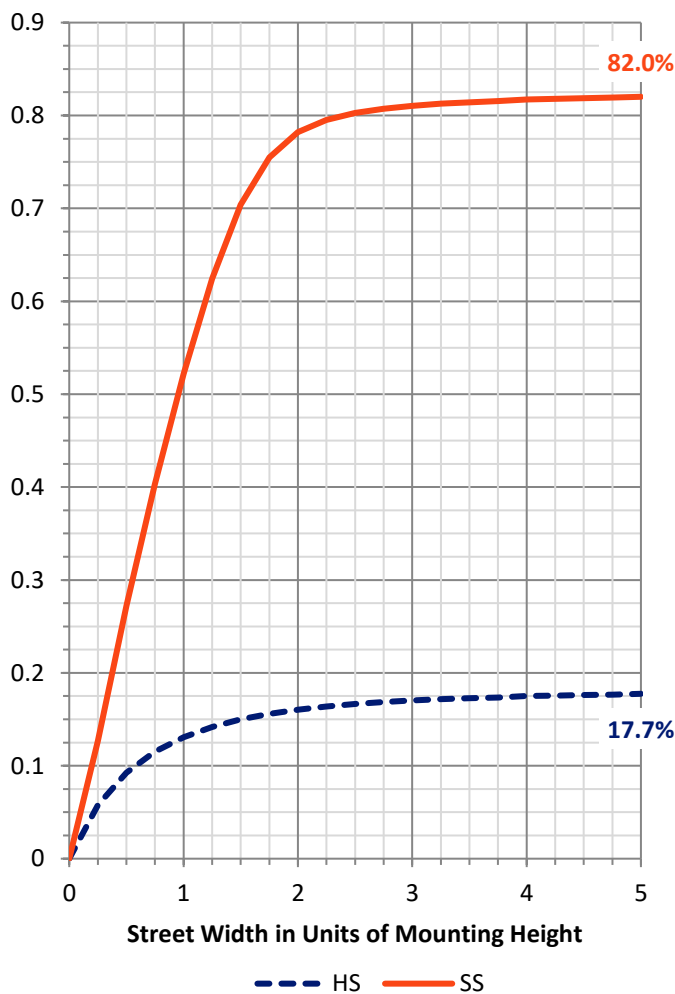
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.4	0.0	856.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	3922.8	0.0	3922.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	4779.2	0.0	4779.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.2
10°-20°	184.3	3.9
20°-30°	326.5	6.8
30°-40°	491.3	10.3
40°-50°	743.3	15.6
50°-60°	1064.8	22.3
60°-70°	1177.1	24.6
70°-80°	664.2	13.9
80°-90°	71.0	1.5
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°	4779.2	100.0
0°-180°	4779.2	100.0

Coefficient of Utilization



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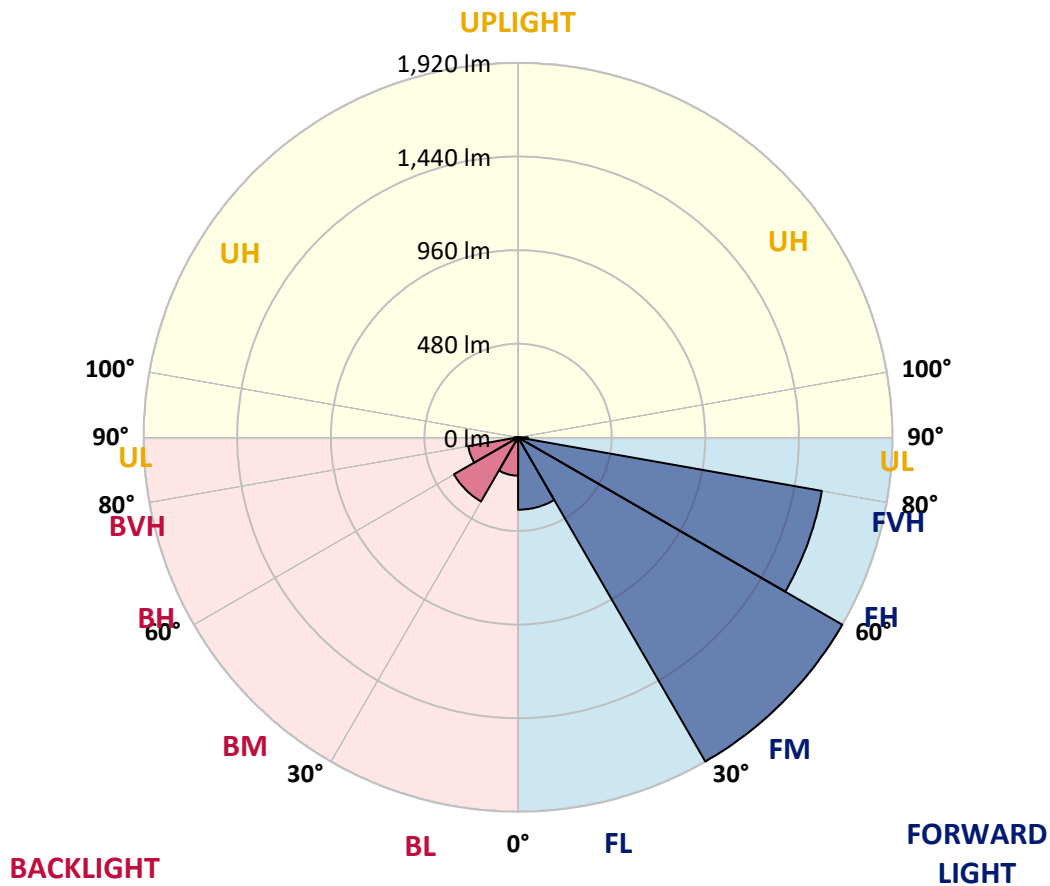
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.0	7.8			
FM (30°-60°)	1919.8	40.2			
FH (60°-80°)	1581.7	33.1			G1/1800
FVH (80°-90°)	50.2	1.1			G1/100
BL (0°-30°)	196.4	4.1	B1/500		
BM (30°-60°)	379.7	7.9	B1/1000		
BH (60°-80°)	259.6	5.4	B1/500		G1/500
BVH (80°-90°)	20.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
2.5°	617.4	616.4	617.1	616.4	612.6	603.3	595.7	586.0	579.5	575.7	566.7
5°	690.0	688.9	686.5	683.1	676.1	663.4	644.4	623.3	610.5	600.9	581.9
7.5°	742.1	742.1	741.8	737.6	732.8	719.3	696.9	669.2	650.6	634.0	602.9
10°	768.7	770.4	772.8	778.7	777.7	770.4	749.4	719.7	696.2	676.8	630.6
12.5°	783.2	784.2	788.4	800.5	812.9	814.6	802.2	771.1	745.6	719.7	661.3
15°	801.8	802.2	807.7	822.2	840.5	858.8	855.7	824.6	798.4	769.7	695.5
17.5°	816.3	818.8	828.8	845.7	868.5	893.7	908.9	889.6	857.1	824.3	732.8
20°	821.5	823.3	836.4	862.3	893.4	928.9	962.8	957.6	924.8	886.1	774.9
22.5°	840.2	840.2	849.8	871.6	908.2	960.0	1014.9	1028.4	999.4	954.1	820.1
25°	881.3	879.9	884.4	893.4	921.0	984.9	1066.4	1106.8	1074.3	1023.5	865.4
27.5°	937.6	936.9	936.5	937.9	947.2	1006.6	1109.9	1180.0	1147.5	1090.2	905.8
30°	998.7	996.6	1001.1	997.0	994.9	1032.5	1146.8	1245.6	1220.4	1156.1	939.3
32.5°	1081.9	1078.1	1077.1	1063.6	1055.3	1072.9	1176.5	1320.2	1300.1	1227.3	976.9
35°	1191.7	1188.3	1170.6	1149.2	1124.7	1133.0	1213.5	1393.0	1394.4	1316.4	1026.3
37.5°	1302.6	1303.3	1289.4	1239.0	1213.8	1209.0	1269.8	1481.8	1511.5	1422.7	1090.2
40°	1394.8	1398.9	1398.9	1345.7	1308.1	1303.6	1348.8	1587.1	1646.2	1553.3	1171.0
42.5°	1464.9	1468.7	1480.8	1442.4	1402.7	1418.2	1444.8	1692.8	1798.8	1714.5	1273.2
45°	1541.9	1545.0	1551.5	1529.4	1506.3	1547.7	1553.6	1819.2	1973.5	1895.5	1392.0
47.5°	1644.1	1641.3	1642.0	1625.8	1607.8	1674.8	1673.4	1925.5	2142.4	2093.7	1520.8
50°	1771.2	1776.3	1771.5	1739.4	1718.3	1779.5	1787.4	2043.3	2290.9	2289.8	1650.7
52.5°	1893.4	1895.5	1921.0	1922.4	1879.3	1866.5	1887.2	2162.1	2416.2	2469.4	1775.3
55°	1899.6	1907.6	1984.2	2039.5	2109.2	2006.7	1988.0	2275.3	2537.4	2645.2	1904.8
57.5°	1767.4	1780.1	1910.3	2029.5	2223.5	2247.4	2160.7	2421.8	2658.7	2818.2	2054.7
60°	1484.9	1511.5	1688.3	1870.6	2172.1	2420.4	2514.0	2620.7	2817.8	2995.0	2236.7
62.5°	948.3	958.6	1206.6	1511.8	1940.4	2403.5	2898.7	2971.2	3060.3	3225.3	2517.1
65°	474.8	508.0	653.4	902.3	1399.3	2117.9	3093.1	3613.1	3504.0	3619.7	2971.5
67.5°	322.2	332.9	406.4	542.2	820.5	1500.4	2972.6	4153.9	4121.8	4140.8	3456.0
70°	237.6	244.5	302.5	384.0	496.2	851.9	2366.5	4113.2	4332.4	4325.5	3405.2
72.5°	173.4	176.8	220.7	293.2	367.8	440.6	1445.2	3322.7	3782.0	3981.2	2978.1
75°	126.0	130.2	153.3	219.3	285.9	274.9	713.4	2400.0	2884.1	3267.5	2426.2
77.5°	93.9	99.1	109.8	137.4	200.3	196.8	308.4	1558.4	1865.4	2134.1	1473.8
80°	67.7	68.7	74.9	88.1	127.1	115.3	146.8	812.5	931.7	1020.8	577.7
82.5°	41.1	42.1	50.1	54.2	78.7	72.5	76.3	263.1	377.1	400.2	215.8
85°	12.1	12.8	22.8	24.9	32.8	31.1	30.7	107.1	127.8	163.3	84.9
87.5°	0.0	0.0	0.0	0.0	0.3	2.1	3.8	19.0	28.7	39.7	20.7
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°	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
2.5°	563.2	555.3	551.1	543.9	538.7	533.5	528.3	523.5	521.4	518.3	519.0
5°	573.2	560.8	548.4	534.2	522.1	512.1	503.1	495.2	491.7	488.6	490.0
7.5°	588.4	569.8	546.0	520.1	501.1	487.3	477.9	472.4	470.7	468.3	468.3
10°	607.8	579.8	538.0	501.1	478.3	467.2	463.1	462.7	464.5	464.8	464.1
12.5°	629.2	589.5	526.3	478.6	459.3	455.8	458.9	464.8	470.7	473.8	473.1
15°	651.3	595.7	506.2	457.2	445.5	450.0	460.0	471.7	483.1	489.0	488.6
17.5°	672.0	597.1	480.3	436.5	433.4	444.8	462.0	480.3	495.9	504.2	504.5
20°	695.1	594.6	453.8	417.8	421.3	439.9	462.7	484.8	503.1	511.4	513.5
22.5°	716.2	586.4	427.9	400.2	410.9	434.1	457.2	477.9	494.2	502.1	504.9
25°	735.2	570.5	399.5	385.4	403.0	425.8	443.4	457.9	469.3	474.1	477.9
27.5°	745.6	546.6	378.1	373.6	395.4	414.0	423.7	428.2	432.0	430.6	433.4
30°	747.6	517.0	359.5	364.3	384.0	397.8	399.9	395.4	388.8	378.1	380.5
32.5°	745.6	482.8	343.9	354.3	371.2	379.5	376.7	365.0	349.1	332.5	333.6
35°	746.2	448.2	331.2	343.3	356.4	360.9	354.0	337.7	320.8	305.6	304.9
37.5°	753.8	419.2	320.5	332.5	341.9	342.6	335.0	318.0	309.4	298.0	296.6
40°	774.9	397.8	310.8	321.8	327.7	327.4	318.7	306.6	312.5	308.7	307.7
42.5°	809.4	384.7	302.8	310.4	314.6	315.3	308.4	300.8	313.6	308.7	307.0
45°	865.0	384.0	297.3	299.1	305.6	310.4	305.6	297.0	301.8	278.3	273.8
47.5°	931.0	395.7	293.2	289.0	300.4	309.1	301.5	287.7	277.6	256.2	253.1
50°	1010.4	419.6	289.4	278.3	292.8	303.9	296.3	277.3	262.1	250.7	249.0
52.5°	1104.7	451.0	284.5	266.2	281.4	301.1	296.3	276.3	256.2	245.9	244.1
55°	1203.5	487.3	279.0	251.7	268.7	301.8	298.7	269.0	251.7	246.2	244.8
57.5°	1326.0	530.8	269.0	234.8	257.3	295.6	289.0	264.9	248.6	244.1	242.8
60°	1485.2	595.3	250.0	217.6	244.1	284.5	280.4	258.0	240.3	236.5	235.5
62.5°	1737.3	704.8	226.9	201.0	228.6	261.4	267.6	244.8	230.0	229.6	229.3
65°	2148.3	836.4	199.6	186.1	212.4	242.4	250.7	231.4	219.3	223.1	222.7
67.5°	2436.3	847.8	177.2	170.6	193.4	221.7	233.8	217.6	204.4	211.7	211.3
70°	2231.5	661.3	157.8	154.4	173.0	199.3	215.5	200.3	187.2	194.1	192.7
72.5°	1882.0	506.9	139.5	137.4	152.3	175.8	192.0	183.0	169.2	169.2	166.1
75°	1512.5	418.2	120.2	119.1	129.2	151.9	170.2	155.1	142.3	141.6	139.5
77.5°	867.5	274.2	100.8	100.1	103.3	127.1	132.3	129.2	119.5	115.0	113.6
80°	345.7	142.6	79.4	74.9	78.0	93.2	104.3	99.1	90.8	85.3	82.2
82.5°	134.0	71.5	55.9	49.0	53.5	67.3	75.6	73.9	68.4	55.9	52.5
85°	54.6	34.9	33.5	28.3	31.1	36.3	43.5	37.6	31.1	22.1	21.1
87.5°	14.5	12.8	12.4	7.6	5.9	1.7	0.3	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)