

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: P630585

Luminaire Tested: GWS-SA1D-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4652.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

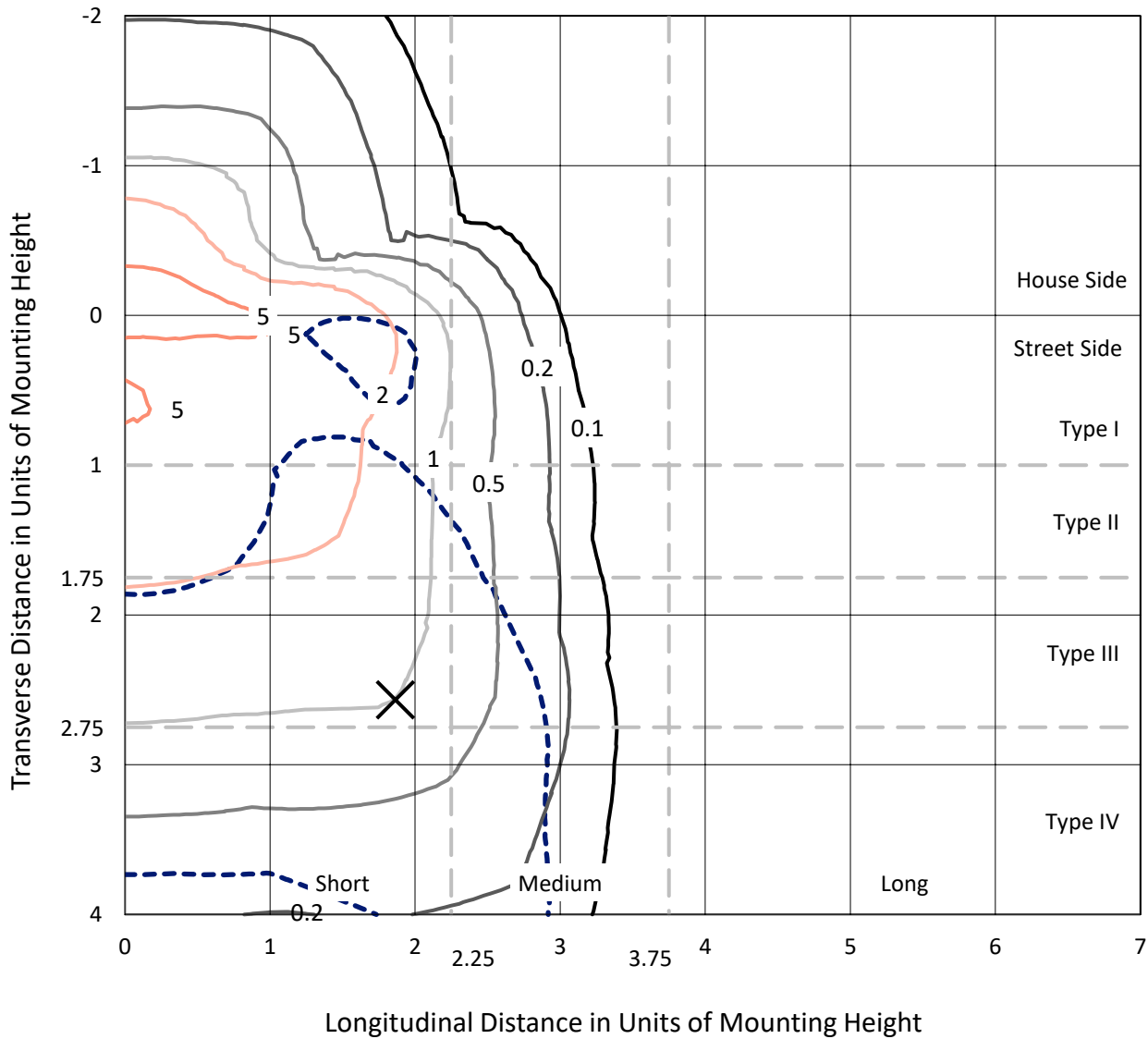
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

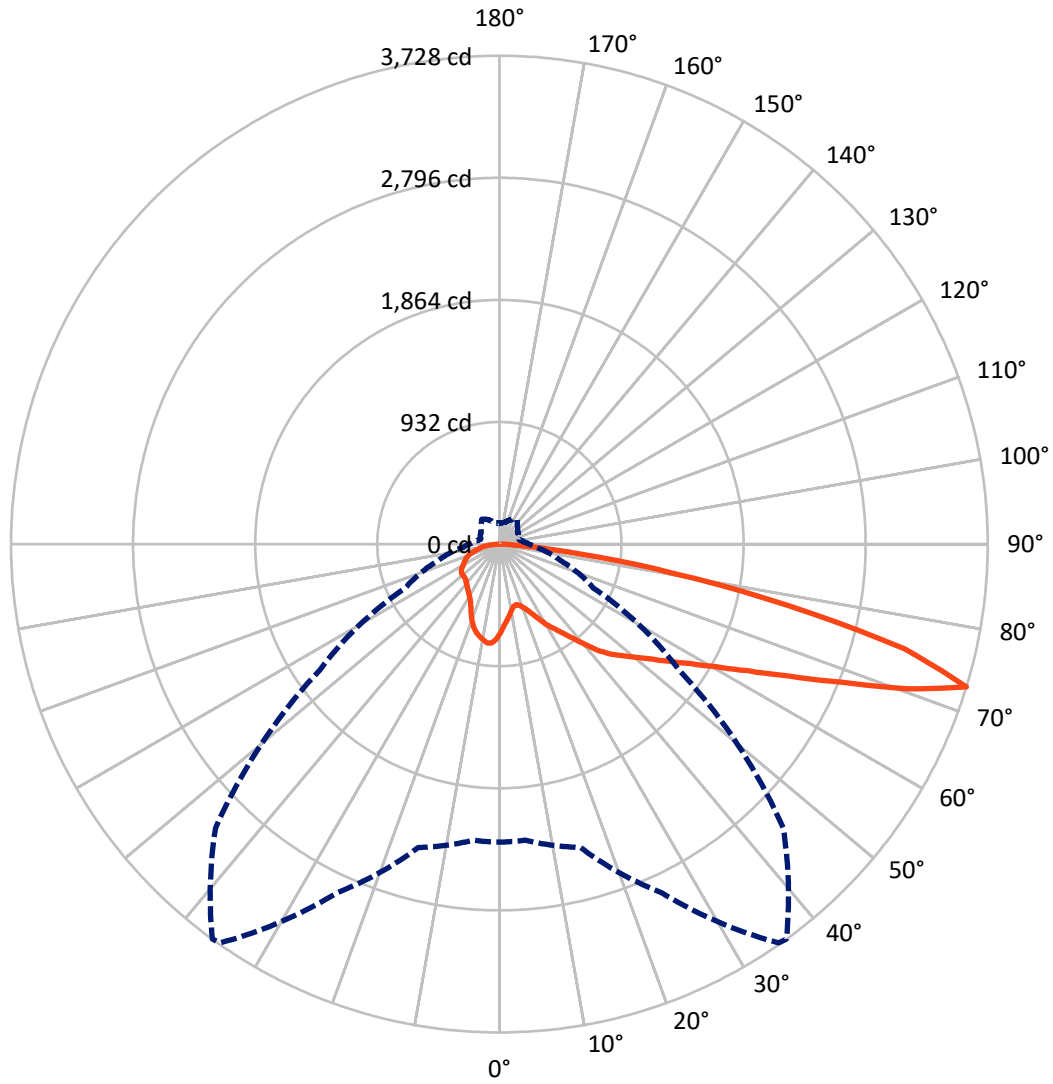
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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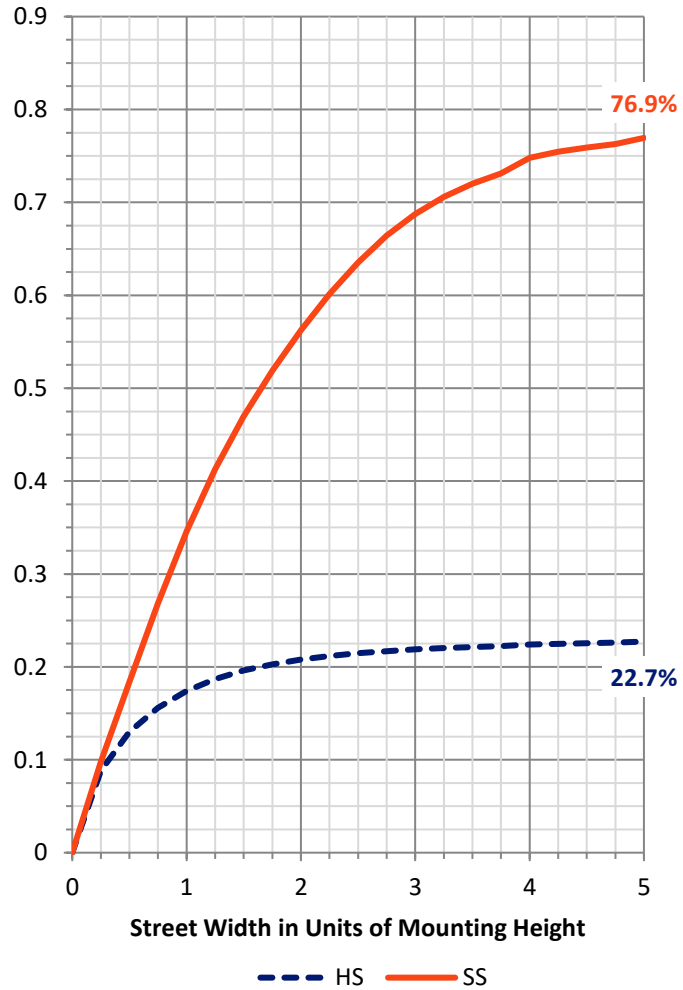
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.7	0.0	1072.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3580.1	0.0	3580.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	4652.8	0.0	4652.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.4
10°-20°	179.6	3.9
20°-30°	297.4	6.4
30°-40°	445.4	9.6
40°-50°	649.8	14.0
50°-60°	924.9	19.9
60°-70°	1168.5	25.1
70°-80°	832.7	17.9
80°-90°	90.9	2.0
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°	4652.8	100.0
0°-180°	4652.8	100.0

Coefficient of Utilization



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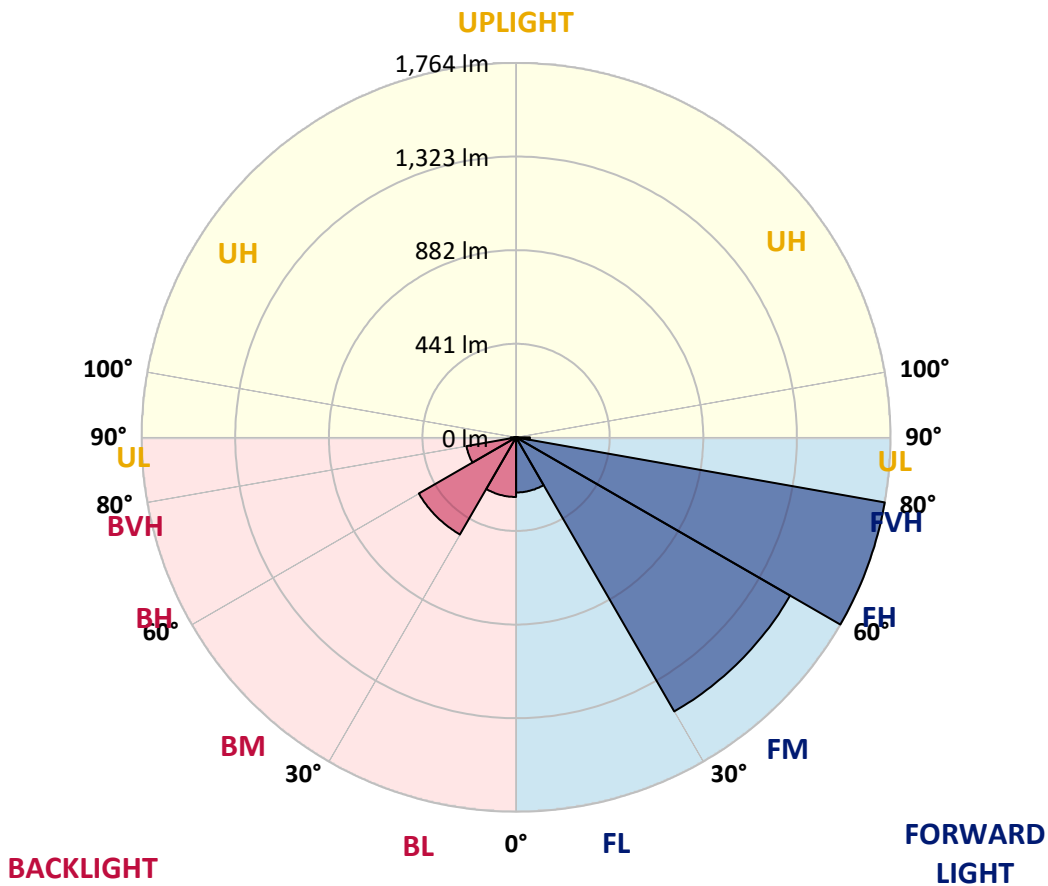
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.8	5.6			
FM (30°-60°)	1491.1	32.0			
FH (60°-80°)	1764.0	37.9			G1/1800
FVH (80°-90°)	65.2	1.4			G1/100
BL (0°-30°)	280.9	6.0	B1/500		
BM (30°-60°)	529.0	11.4	B1/1000		
BH (60°-80°)	237.1	5.1	B1/500		G1/500
BVH (80°-90°)	25.7	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	621.2	620.2	618.1	624.3	630.5	629.9	638.5	646.8	655.8	665.1	677.5
5°	571.5	570.8	569.1	578.4	587.7	587.4	601.5	615.0	633.3	653.3	678.2
7.5°	521.8	520.0	522.5	534.2	547.3	548.7	568.0	590.1	616.7	646.8	682.0
10°	477.9	477.6	478.6	491.7	511.4	512.8	537.7	568.4	603.6	643.7	690.6
12.5°	466.5	465.8	463.1	469.6	484.5	486.5	513.8	551.5	594.6	645.4	702.4
15°	485.2	483.4	473.8	470.7	477.9	479.6	502.8	541.5	589.5	648.5	717.2
17.5°	517.3	516.2	497.9	485.2	490.0	491.4	508.6	539.7	588.1	654.7	735.5
20°	564.2	559.8	531.1	511.8	511.8	513.8	524.2	547.3	589.8	662.3	756.2
22.5°	626.4	617.4	577.0	550.8	543.9	546.6	551.1	566.3	597.0	675.1	782.1
25°	696.2	687.9	639.9	602.9	593.2	594.3	590.5	593.2	612.9	692.7	814.2
27.5°	770.4	764.9	713.8	666.8	651.6	651.6	638.1	631.6	635.0	712.7	850.2
30°	836.7	829.1	785.9	734.5	714.5	714.5	688.9	674.7	666.5	737.2	898.2
32.5°	871.6	867.1	838.4	799.1	774.5	770.7	748.6	732.1	712.7	773.5	963.1
35°	917.2	916.1	898.9	868.1	837.0	831.5	816.3	803.2	769.7	818.7	1049.4
37.5°	974.5	972.7	970.0	951.7	914.4	913.4	899.9	884.0	840.5	884.0	1154.0
40°	1038.7	1035.6	1032.1	1031.8	1009.4	1005.6	1004.5	986.6	925.8	962.7	1263.2
42.5°	1127.1	1116.4	1083.9	1098.4	1115.0	1111.6	1124.7	1097.8	1032.1	1056.3	1366.4
45°	1235.9	1209.6	1145.4	1149.5	1191.3	1198.2	1243.8	1237.3	1149.2	1164.4	1475.2
47.5°	1301.1	1278.4	1218.6	1215.2	1267.3	1275.9	1375.0	1387.5	1275.2	1294.6	1609.5
50°	1354.7	1338.8	1289.7	1294.6	1349.8	1358.5	1505.2	1531.8	1394.0	1427.9	1765.6
52.5°	1419.2	1396.4	1358.5	1381.3	1448.9	1459.3	1649.9	1678.6	1501.1	1574.3	1927.2
55°	1455.5	1446.2	1446.9	1481.7	1566.7	1580.8	1801.5	1796.7	1599.1	1699.6	2048.7
57.5°	1539.1	1535.6	1567.4	1580.5	1704.1	1722.4	1953.1	1911.7	1688.2	1796.7	2107.1
60°	1686.5	1677.9	1705.5	1725.5	1874.0	1899.9	2122.3	2024.2	1748.7	1868.8	2087.4
62.5°	1893.7	1883.0	1884.0	1915.8	2101.6	2128.9	2310.5	2118.2	1767.3	1879.9	1962.8
65°	2151.3	2135.8	2118.2	2161.3	2403.7	2426.5	2515.3	2186.5	1722.8	1773.5	1702.4
67.5°	2423.1	2410.3	2389.6	2480.0	2795.0	2808.8	2744.9	2180.7	1581.5	1489.0	1194.1
70°	2438.9	2442.1	2540.1	2867.5	3305.7	3309.1	2962.1	2062.6	1280.8	965.2	595.0
72.5°	2275.3	2270.1	2397.9	2938.3	3716.6	3728.3	3064.7	1671.0	791.5	481.4	279.0
75°	1848.1	1857.1	1991.4	2570.9	3185.5	3195.9	2498.3	985.2	376.0	235.5	178.5
77.5°	795.6	845.7	1110.5	1811.2	2281.5	2249.4	1287.7	399.2	200.6	167.8	136.7
80°	229.6	249.3	395.7	861.2	1367.1	1342.9	509.7	149.5	139.9	126.0	98.1
82.5°	74.2	82.2	145.0	342.9	612.6	611.9	193.4	88.4	91.5	85.6	63.2
85°	20.7	23.8	44.5	103.9	189.6	185.8	55.9	41.8	48.7	49.4	31.4
87.5°	0.0	0.0	0.3	0.7	0.7	0.7	1.4	6.2	14.2	18.0	12.8
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°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	685.1	684.1	698.2	709.3	719.6	726.5	728.6	730.0	732.8	734.1	732.8
5°	689.9	695.1	718.6	735.9	749.7	758.0	758.3	757.6	759.7	758.0	756.9
7.5°	700.3	710.3	740.0	758.3	767.3	767.6	759.3	749.7	744.8	740.7	739.3
10°	714.1	729.0	761.4	773.5	770.7	758.0	739.7	724.5	715.8	709.6	708.2
12.5°	733.1	749.7	780.4	780.1	762.8	740.0	718.6	700.3	687.9	680.6	678.2
15°	751.1	772.1	794.2	778.0	750.7	723.1	695.5	670.9	654.4	643.0	640.9
17.5°	773.2	795.6	804.2	771.4	735.5	700.0	663.0	630.9	608.4	595.0	593.9
20°	798.7	818.7	809.1	760.0	715.8	669.2	619.1	583.2	559.1	545.9	547.0
22.5°	828.4	842.9	810.5	744.5	688.6	625.7	569.8	535.2	519.0	512.1	512.4
25°	860.2	869.5	808.0	723.4	646.8	572.5	519.0	503.1	501.7	500.0	500.7
27.5°	897.8	895.7	800.8	693.7	590.5	510.7	483.4	487.6	493.1	492.4	493.1
30°	948.2	928.5	791.5	652.6	523.5	458.9	462.4	474.1	481.4	482.1	484.1
32.5°	1005.9	964.8	776.6	596.7	459.6	429.9	442.7	456.8	465.5	467.2	470.0
35°	1074.6	1006.2	750.4	526.9	413.7	412.6	424.4	434.1	443.4	444.1	444.1
37.5°	1153.7	1047.7	708.6	449.9	385.4	397.8	408.9	410.9	413.3	411.3	412.3
40°	1226.2	1087.7	649.2	379.8	362.2	384.7	394.0	387.1	379.5	374.3	375.4
42.5°	1287.0	1115.0	570.5	330.8	338.8	372.9	380.2	366.0	351.2	341.5	342.9
45°	1355.4	1140.2	477.9	297.7	318.7	364.7	369.5	351.2	332.2	317.7	315.6
47.5°	1449.6	1191.7	395.7	274.5	304.6	360.2	368.1	343.2	318.4	296.6	294.2
50°	1566.0	1264.5	327.0	259.3	298.0	357.7	367.8	334.6	304.9	279.4	277.6
52.5°	1693.1	1335.7	276.3	247.6	291.4	350.5	366.0	324.9	290.8	263.1	261.1
55°	1777.7	1363.6	242.1	236.5	280.7	339.1	359.1	315.6	269.3	244.1	241.0
57.5°	1802.5	1327.7	218.2	226.5	266.9	323.2	346.0	295.9	256.2	236.2	233.8
60°	1759.7	1237.3	203.4	218.2	251.7	302.8	323.2	284.5	245.9	227.9	226.2
62.5°	1638.9	1097.8	192.0	209.6	236.2	281.4	308.7	270.7	234.5	220.3	217.9
65°	1395.8	900.2	182.7	200.6	221.3	261.1	292.8	256.9	222.0	211.3	208.6
67.5°	976.2	632.3	172.7	189.9	206.5	241.4	276.3	244.1	209.3	201.3	198.6
70°	477.2	335.3	160.6	177.5	190.6	221.3	259.7	228.6	192.3	187.9	184.1
72.5°	227.2	187.5	146.4	160.6	168.9	194.8	232.1	206.2	172.3	162.6	156.1
75°	152.3	133.3	127.8	140.5	142.6	163.3	198.9	177.8	151.9	140.9	135.4
77.5°	115.3	101.9	107.4	118.8	114.6	134.3	163.7	158.5	137.1	127.1	124.3
80°	81.1	74.2	85.3	92.2	89.1	114.3	147.4	135.7	112.9	101.9	99.8
82.5°	51.1	49.7	62.8	63.9	64.9	90.5	121.2	106.7	87.7	72.2	67.0
85°	25.6	28.3	37.6	37.6	37.3	46.6	69.1	60.1	47.3	37.6	36.6
87.5°	8.6	12.1	16.2	13.1	10.0	7.9	9.0	11.1	11.7	11.4	11.4
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)