

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: P630573

Luminaire Tested: GWS-SA1D-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239.4 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

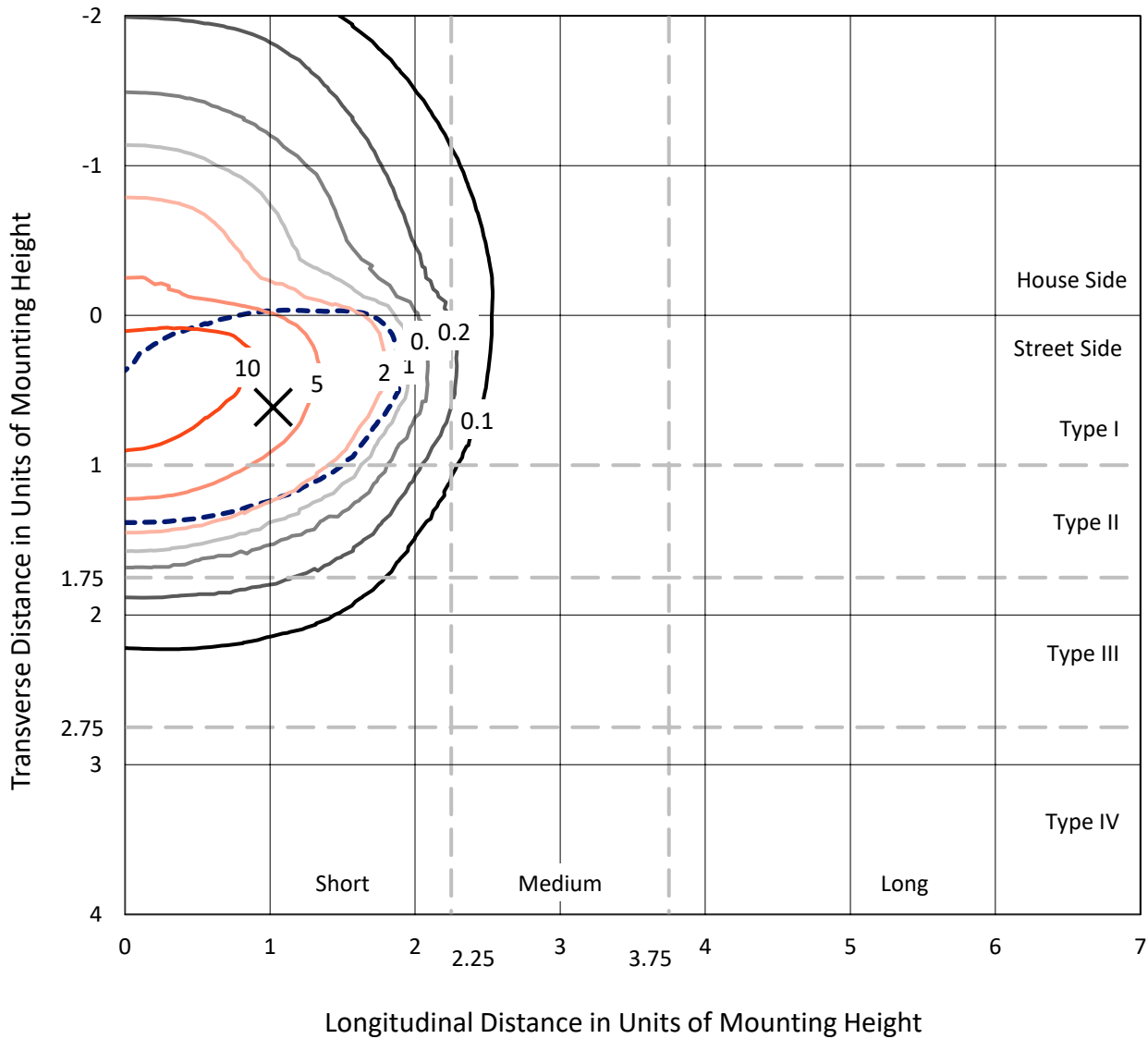
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

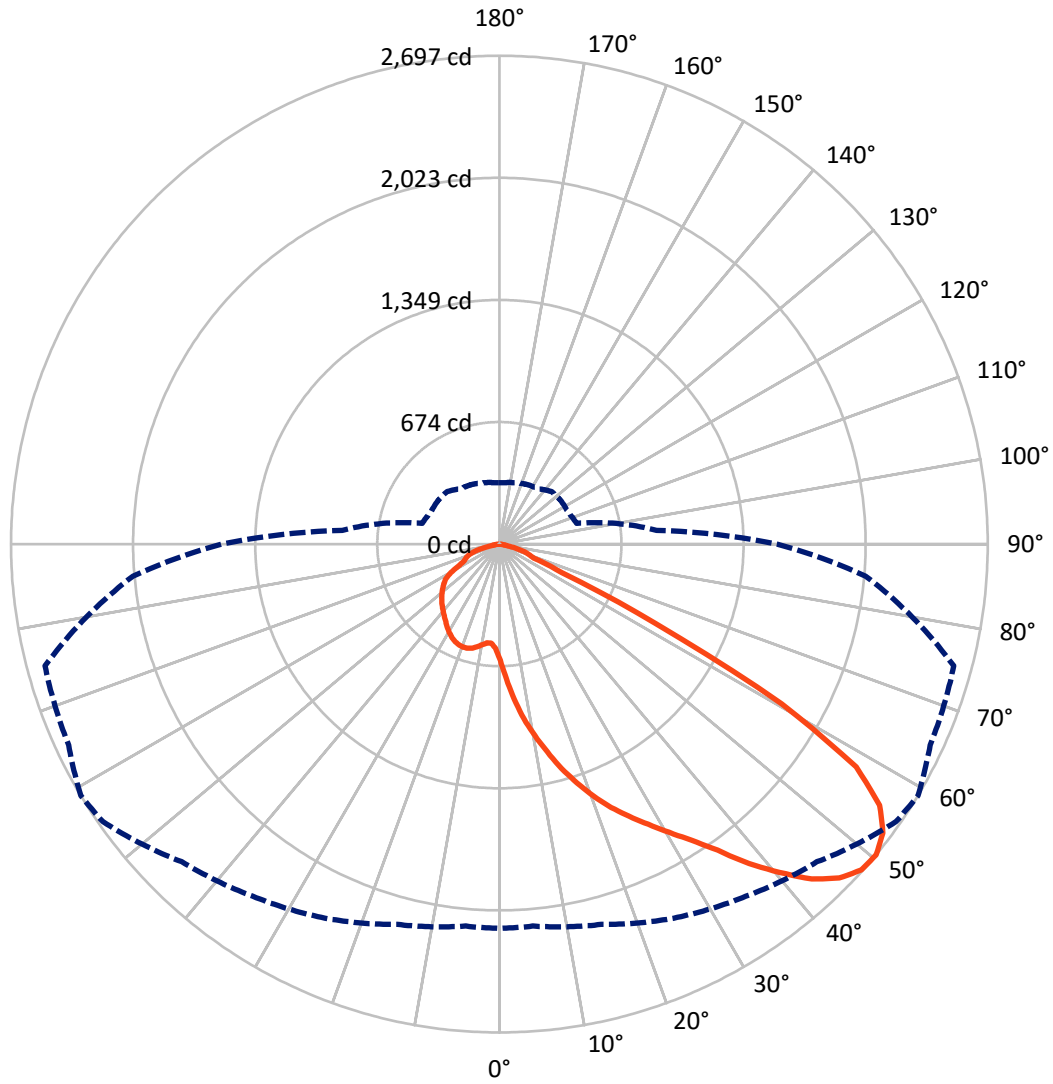
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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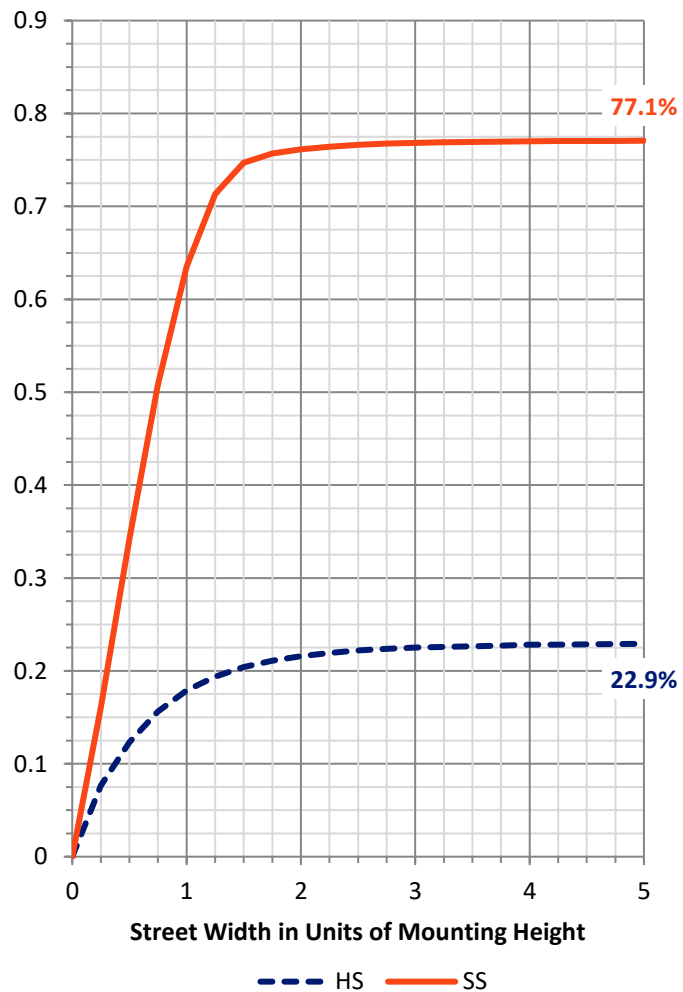
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	975.1	0.0	975.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	3264.3	0.0	3264.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	4239.4	0.0	4239.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.7
10°-20°	261.6	6.2
20°-30°	495.3	11.7
30°-40°	821.4	19.4
40°-50°	1122.1	26.5
50°-60°	1018.5	24.0
60°-70°	339.2	8.0
70°-80°	98.9	2.3
80°-90°	10.4	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°	4239.4	100.0
0°-180°	4239.4	100.0

Coefficient of Utilization



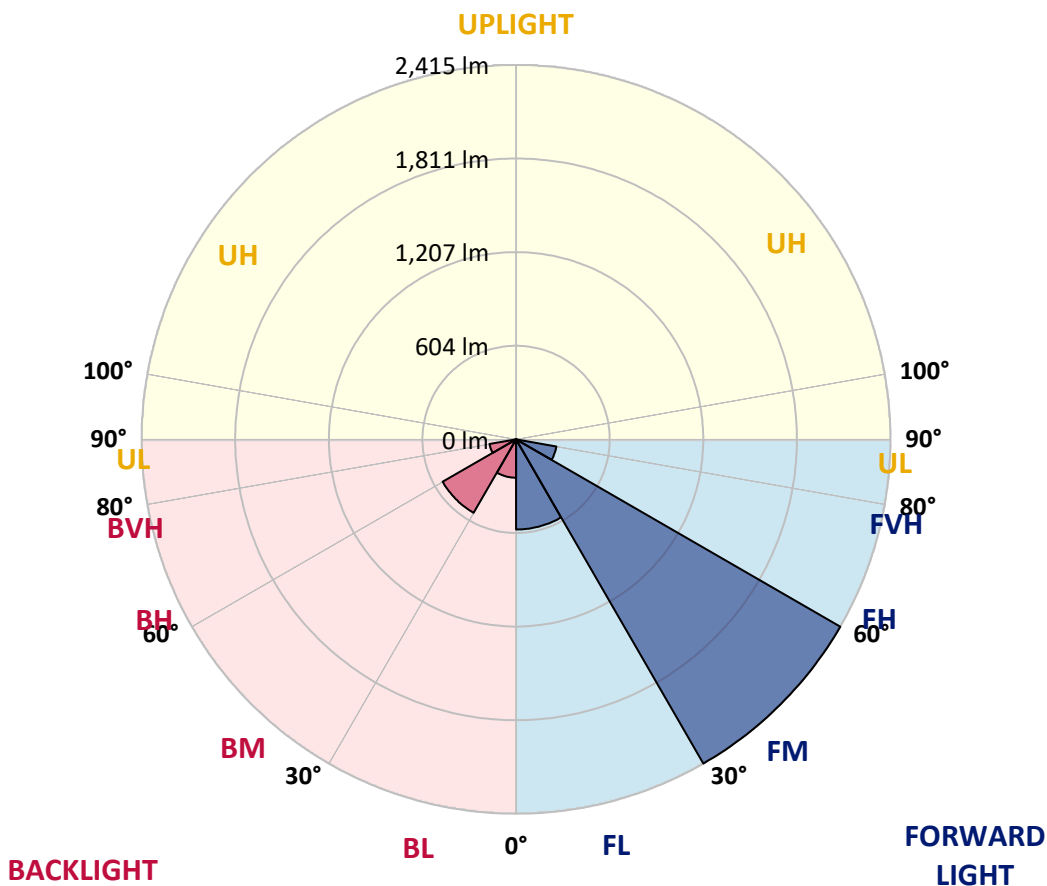
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.3	13.7			
FM (30°-60°)	2414.8	57.0			
FH (60°-80°)	264.1	6.2			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	247.6	5.8	B1/500		
BM (30°-60°)	547.2	12.9	B1/1000		
BH (60°-80°)	174.0	4.1	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	832.2	838.4	828.8	829.5	805.3	794.2	763.2	744.9	732.8	698.9	668.2
5°	1000.1	992.8	985.2	980.7	959.7	930.0	891.3	860.5	832.2	765.9	702.0
7.5°	1103.0	1099.2	1094.0	1091.2	1070.5	1039.4	1000.7	974.5	933.4	843.6	743.1
10°	1190.3	1185.8	1182.7	1184.8	1167.9	1147.9	1105.7	1075.7	1029.4	925.8	792.9
12.5°	1258.0	1260.4	1261.5	1272.5	1265.3	1253.2	1209.7	1177.9	1126.4	1012.5	851.2
15°	1311.5	1310.8	1322.9	1344.0	1355.7	1348.1	1313.3	1286.7	1223.8	1097.8	914.1
17.5°	1324.0	1324.7	1343.6	1380.6	1418.9	1437.6	1417.9	1386.1	1324.0	1182.0	979.3
20°	1334.0	1335.4	1355.0	1397.2	1453.1	1505.3	1508.4	1485.6	1432.1	1273.2	1045.6
22.5°	1397.2	1400.3	1405.5	1432.1	1482.5	1548.4	1584.7	1579.8	1535.0	1368.9	1117.1
25°	1563.3	1553.9	1528.7	1521.1	1540.5	1594.0	1655.8	1665.1	1643.0	1474.2	1194.1
27.5°	1768.4	1758.4	1721.1	1681.7	1639.9	1658.6	1724.5	1752.5	1752.9	1590.2	1271.5
30°	1954.5	1946.6	1916.2	1859.9	1787.7	1760.8	1809.5	1847.1	1869.6	1724.2	1359.5
32.5°	2113.7	2106.5	2065.4	2019.4	1949.0	1894.8	1912.4	1948.7	2001.1	1897.5	1469.0
35°	2247.7	2240.4	2201.1	2154.8	2089.5	2057.1	2050.9	2075.7	2143.8	2078.5	1594.7
37.5°	2356.5	2349.2	2308.1	2264.6	2214.9	2217.0	2226.3	2238.4	2277.4	2272.2	1729.0
40°	2426.9	2419.3	2390.0	2358.9	2327.5	2352.3	2398.6	2384.1	2404.8	2428.7	1852.7
42.5°	2458.3	2448.7	2431.8	2424.9	2415.2	2453.9	2543.0	2528.4	2503.6	2532.9	1944.5
45°	2426.9	2418.6	2418.3	2439.4	2461.8	2511.5	2642.7	2631.0	2568.2	2583.4	1999.4
47.5°	2330.6	2323.3	2343.0	2398.3	2453.5	2526.0	2687.3	2689.4	2614.1	2604.4	2035.0
50°	2122.3	2117.5	2174.5	2279.1	2374.4	2480.8	2673.1	2697.0	2625.1	2597.9	2030.5
52.5°	1699.0	1721.4	1845.4	2020.1	2205.2	2401.4	2620.6	2651.7	2572.0	2554.7	2006.3
55°	1163.0	1173.4	1297.4	1552.6	1846.1	2229.4	2500.1	2548.1	2509.1	2547.4	2031.5
57.5°	602.2	610.5	708.3	934.8	1252.1	1761.8	2165.5	2323.0	2382.4	2584.0	2109.9
60°	247.3	254.2	294.6	404.0	631.6	1026.0	1558.4	1791.9	1931.4	2359.9	1873.7
62.5°	179.6	183.0	202.4	241.0	330.8	502.8	882.0	967.9	1066.0	1479.0	1189.6
65°	151.3	155.0	170.6	194.1	241.4	308.4	376.7	378.8	417.5	602.6	441.0
67.5°	126.7	130.2	144.0	164.0	195.1	218.9	202.4	202.7	202.0	218.6	211.3
70°	98.8	101.5	115.3	136.7	153.0	140.5	158.2	175.1	167.8	174.4	184.4
72.5°	72.2	75.3	87.4	103.6	99.5	100.1	128.1	145.4	141.2	148.5	157.8
75°	52.1	54.2	60.4	51.8	54.6	66.0	90.1	99.5	103.6	109.8	118.1
77.5°	16.9	16.9	19.0	23.8	29.7	36.6	45.9	49.7	55.9	62.8	68.7
80°	8.6	9.0	10.7	13.1	16.6	21.1	26.9	28.7	31.8	35.6	38.0
82.5°	4.1	4.5	5.2	6.6	8.6	11.1	14.8	16.6	18.6	21.1	22.8
85°	1.0	1.0	1.4	2.1	2.8	4.1	5.5	6.6	8.3	10.0	11.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.4	1.7	2.1	2.8
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°	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
2.5°	654.4	635.0	610.2	589.1	569.8	554.9	542.2	535.9	530.1	525.9	527.3
5°	672.3	639.2	592.9	560.8	541.1	531.1	524.2	520.7	520.1	517.3	516.3
7.5°	698.6	651.3	589.5	557.0	543.9	538.7	534.9	532.8	533.9	531.1	530.1
10°	731.0	671.3	598.1	569.4	558.0	554.2	550.1	547.3	546.0	541.8	541.1
12.5°	771.4	696.2	613.6	585.3	573.9	567.4	561.8	557.0	553.9	548.7	547.3
15°	815.0	723.8	631.9	600.9	587.4	577.7	568.7	561.5	556.0	549.1	548.0
17.5°	862.3	752.8	647.1	611.6	594.3	581.5	568.4	557.7	550.1	541.1	540.1
20°	911.7	782.2	658.5	616.7	594.6	577.4	559.8	545.6	535.9	527.0	526.3
22.5°	962.8	809.1	665.4	615.4	589.1	567.7	546.6	530.8	519.4	508.7	508.0
25°	1014.2	835.0	667.2	609.8	578.1	553.2	532.1	513.5	500.7	488.6	487.2
27.5°	1066.4	856.7	663.0	598.8	563.2	536.3	515.2	496.9	483.8	471.7	469.6
30°	1122.0	875.4	654.0	584.3	546.0	518.3	497.6	483.8	471.4	459.3	457.2
32.5°	1181.3	891.6	641.3	566.7	525.9	500.4	485.2	472.7	460.3	449.6	447.5
35°	1252.1	902.3	622.3	543.9	507.3	487.2	476.9	462.4	447.2	435.5	434.4
37.5°	1325.3	910.6	599.5	522.1	491.0	479.7	471.0	451.3	432.3	418.2	416.5
40°	1396.1	917.5	571.2	501.8	476.2	474.1	462.4	437.9	405.1	389.2	387.8
42.5°	1462.1	919.6	541.5	480.0	462.7	461.7	448.6	410.6	385.4	375.4	374.0
45°	1507.3	917.9	510.7	459.6	449.3	443.7	429.9	390.9	375.4	366.4	364.7
47.5°	1540.8	908.9	476.2	438.2	434.1	426.5	396.8	378.5	364.0	355.0	353.3
50°	1535.0	871.6	441.3	417.5	415.8	409.2	372.6	362.9	350.2	340.5	339.1
52.5°	1504.6	800.8	405.8	394.7	398.2	385.4	355.3	344.3	333.2	322.2	319.8
55°	1512.2	749.7	378.8	372.6	378.8	349.8	336.0	324.3	313.9	303.2	301.1
57.5°	1545.3	699.3	350.2	348.8	355.3	322.5	311.1	296.3	281.4	272.8	272.8
60°	1297.7	509.7	299.7	303.2	318.0	300.4	290.4	275.2	259.0	251.4	251.4
62.5°	767.3	319.8	248.6	244.8	254.2	265.2	270.7	258.3	239.0	228.9	229.3
65°	338.1	232.7	219.3	216.2	213.4	221.0	236.2	237.2	216.9	205.1	205.5
67.5°	208.2	210.6	205.1	202.7	200.3	198.9	197.5	198.2	192.7	182.0	181.6
70°	187.9	194.4	190.6	188.5	185.4	183.0	174.7	161.3	151.9	149.2	152.3
72.5°	161.6	170.6	168.5	167.5	163.7	157.8	146.8	133.6	122.6	115.7	117.1
75°	121.9	129.2	130.2	130.5	126.4	120.9	109.5	98.4	88.7	81.5	83.2
77.5°	70.1	74.2	75.3	76.3	73.2	71.1	63.5	55.6	50.4	42.8	44.9
80°	39.0	40.7	40.7	41.1	39.4	36.9	31.8	27.3	24.9	21.4	21.8
82.5°	23.5	24.2	24.5	24.9	23.8	21.4	17.6	14.5	13.1	11.4	11.1
85°	11.4	12.1	12.1	12.4	10.7	9.3	7.3	5.5	4.8	3.5	3.8
87.5°	2.8	3.1	3.1	2.8	2.4	1.7	1.0	0.3	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)