

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: P631617

Luminaire Tested: GWS-SA2B-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3407.6 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

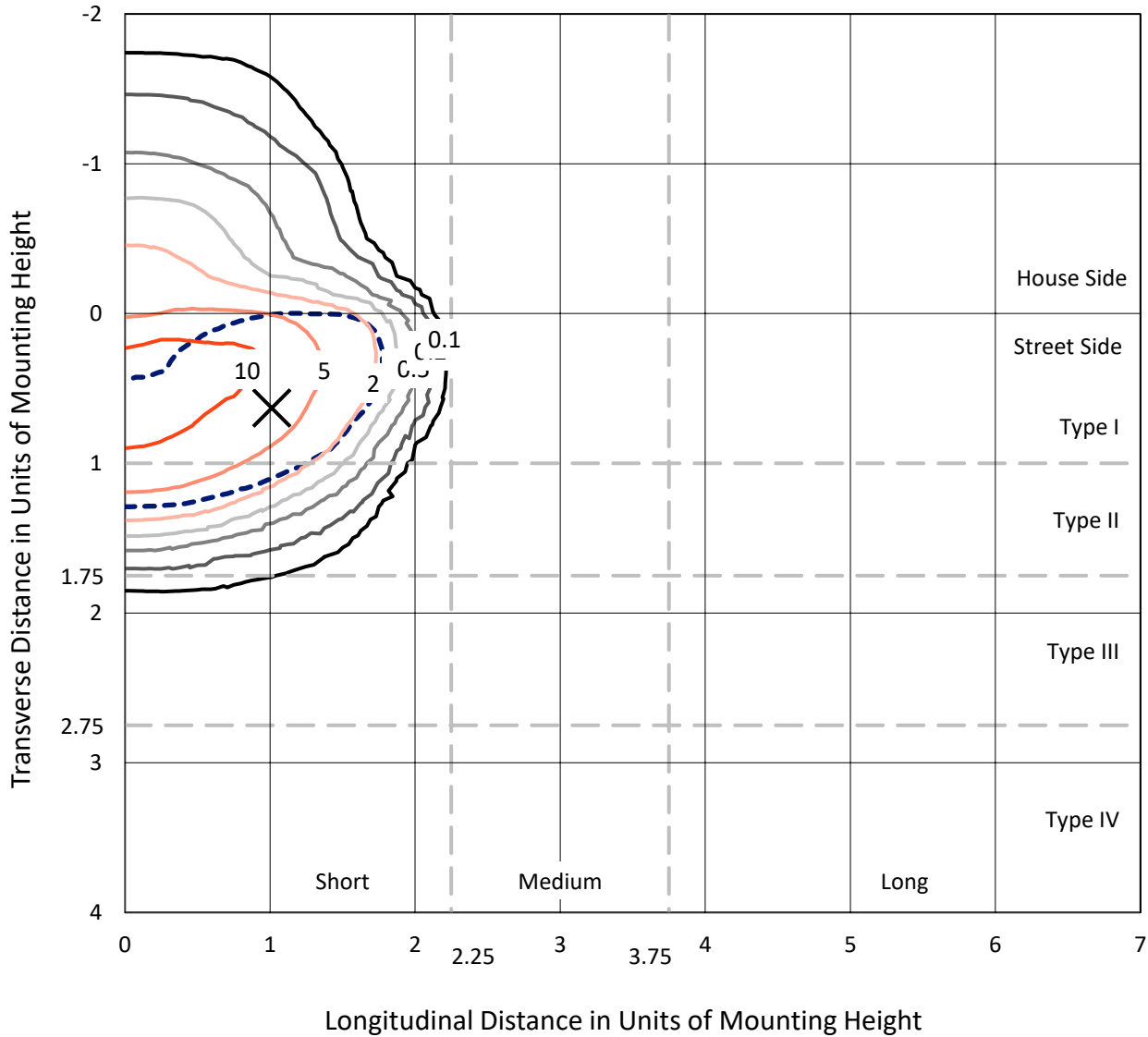
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

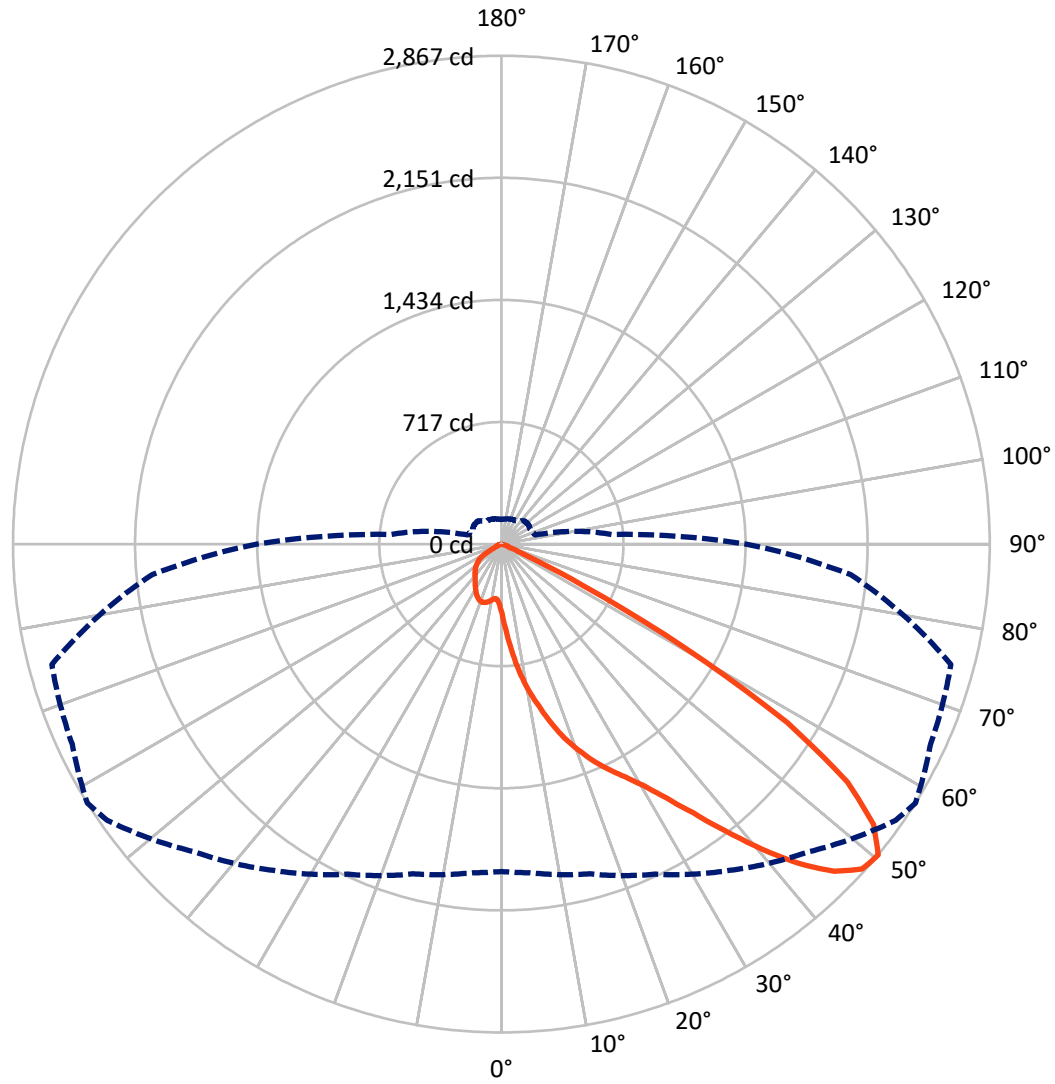
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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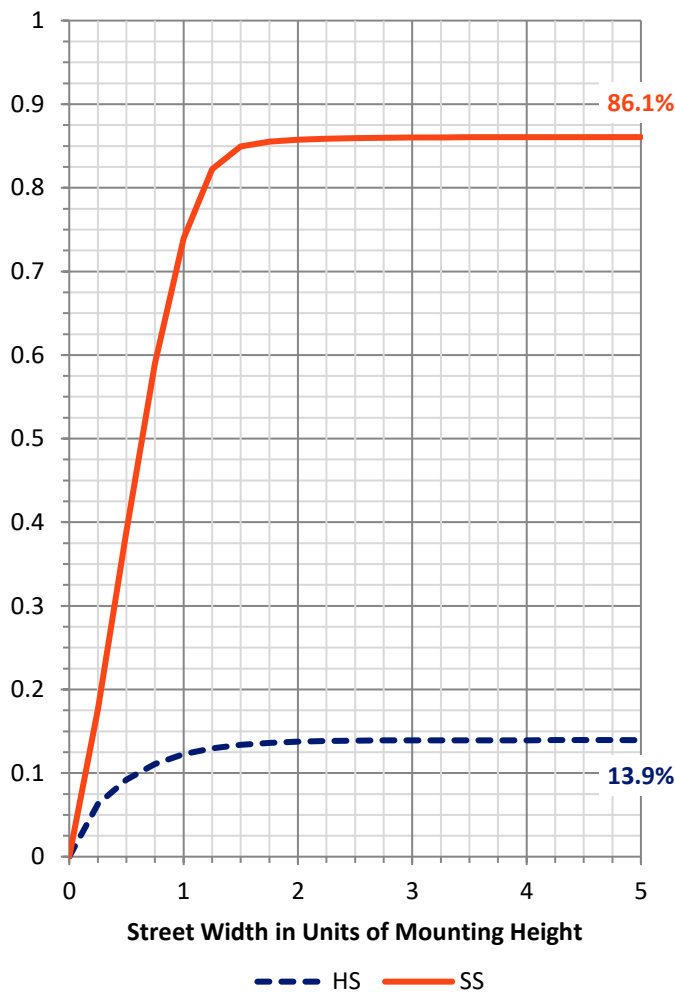
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.3	0.0	477.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2930.3	0.0	2930.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	3407.6	0.0	3407.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.5
10°-20°	199.6	5.9
20°-30°	403.9	11.9
30°-40°	714.6	21.0
40°-50°	1041.7	30.6
50°-60°	835.0	24.5
60°-70°	150.4	4.4
70°-80°	11.9	0.3
80°-90°	0.0	0.0
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°	3407.6	100.0
0°-180°	3407.6	100.0

Coefficient of Utilization



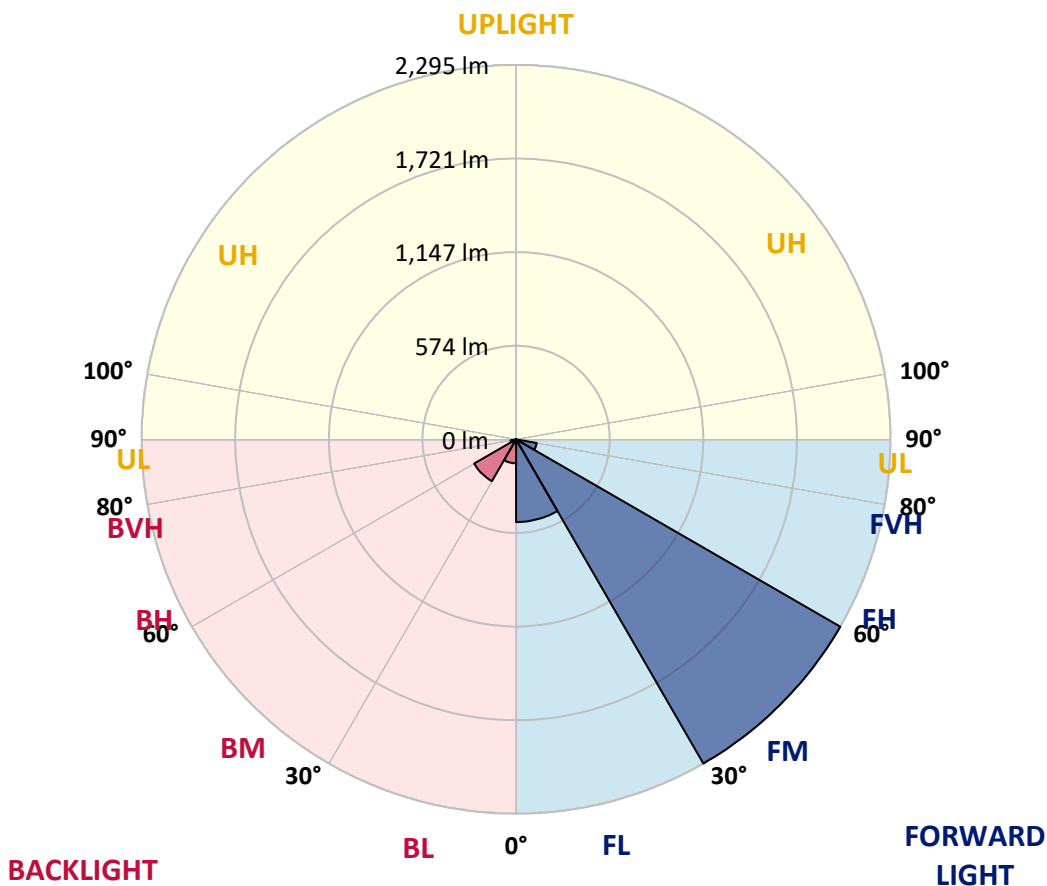
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.0	14.9			
FM (30°-60°)	2294.9	67.3			
FH (60°-80°)	128.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	146.9	4.3	B1/500		
BM (30°-60°)	296.4	8.7	B1/1000		
BH (60°-80°)	33.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0
2.5°	602.3	592.9	587.4	583.0	563.7	533.1	513.1	502.5	485.0	455.5	430.0
5°	786.0	779.1	766.3	757.6	732.8	689.4	644.6	626.8	587.0	520.4	460.6
7.5°	907.7	902.6	897.9	886.2	862.9	823.5	774.0	755.4	694.2	599.4	501.4
10°	1001.4	997.4	991.9	991.5	973.3	938.0	889.5	870.2	803.9	685.4	549.5
12.5°	1083.7	1080.4	1079.3	1089.5	1077.9	1051.7	999.2	975.1	904.8	773.3	602.7
15°	1140.2	1139.5	1144.2	1164.2	1170.8	1158.8	1114.7	1088.8	1007.9	861.4	661.4
17.5°	1166.1	1168.3	1177.4	1212.0	1241.1	1251.3	1217.5	1195.6	1110.3	950.7	724.1
20°	1210.2	1209.4	1214.9	1247.7	1283.4	1319.8	1309.6	1291.1	1213.8	1045.1	793.7
22.5°	1334.4	1323.9	1312.2	1317.3	1330.1	1372.7	1391.6	1382.2	1320.6	1142.0	865.4
25°	1525.4	1514.4	1476.9	1440.5	1416.4	1435.7	1461.6	1466.3	1426.6	1241.5	940.5
27.5°	1728.0	1718.1	1675.9	1621.2	1552.3	1518.8	1538.1	1547.6	1530.8	1359.9	1020.3
30°	1917.8	1904.7	1858.4	1790.6	1710.8	1659.5	1637.6	1644.2	1654.0	1500.2	1114.0
32.5°	2082.5	2072.7	2017.3	1945.9	1869.0	1815.4	1764.4	1775.3	1799.4	1671.9	1233.8
35°	2222.1	2217.0	2158.3	2087.3	2006.0	1978.7	1935.0	1937.1	1961.2	1879.2	1380.0
37.5°	2343.4	2334.7	2281.5	2215.5	2151.0	2146.7	2134.6	2135.7	2148.1	2120.8	1548.0
40°	2420.0	2411.9	2374.0	2333.2	2287.3	2288.1	2350.4	2355.1	2340.9	2358.0	1725.4
42.5°	2448.8	2442.9	2422.5	2422.9	2418.1	2439.6	2556.6	2565.4	2514.3	2544.2	1877.0
45°	2398.8	2396.3	2397.7	2450.2	2507.1	2573.4	2725.3	2740.6	2668.5	2667.8	1995.4
47.5°	2237.8	2232.7	2275.3	2364.6	2496.1	2625.1	2827.4	2851.0	2776.3	2738.4	2069.8
50°	1922.2	1936.8	2004.2	2138.3	2338.3	2554.1	2826.3	2867.4	2780.4	2732.3	2057.4
52.5°	1392.4	1389.4	1537.0	1721.4	1964.8	2326.7	2676.1	2736.3	2683.1	2671.4	2029.7
55°	757.6	784.2	883.7	1127.8	1431.7	1896.3	2333.2	2464.4	2526.0	2649.2	2079.6
57.5°	278.4	290.1	352.4	525.1	757.9	1179.2	1782.3	1980.1	2170.4	2587.2	2071.2
60°	112.2	114.4	139.2	193.1	318.5	600.2	1069.1	1244.8	1424.1	1980.5	1589.5
62.5°	81.6	84.5	94.4	113.0	161.1	262.4	461.0	536.0	586.0	981.0	783.1
65°	66.0	68.1	76.2	84.5	106.4	141.0	148.7	143.2	142.5	253.6	179.6
67.5°	54.7	56.8	62.7	68.5	76.5	70.3	51.0	53.6	43.7	43.4	35.3
70°	40.1	42.6	48.5	54.7	45.9	18.9	29.5	43.7	33.2	27.7	27.0
72.5°	30.2	32.1	37.5	35.7	13.5	7.3	19.7	31.7	25.5	20.4	20.0
75°	22.6	23.7	18.9	5.8	1.5	1.8	7.3	13.1	14.2	11.7	11.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	1.5	1.8	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0
2.5°	415.4	400.1	378.2	360.0	346.2	332.7	322.5	312.3	311.9	306.8	305.7
5°	432.9	405.2	365.1	336.3	318.8	308.3	301.0	297.3	295.5	293.7	293.0
7.5°	458.0	418.3	362.9	332.3	317.8	310.8	305.7	303.5	302.4	301.0	300.6
10°	489.0	437.3	371.0	340.0	327.2	320.7	315.2	311.9	310.1	307.6	306.8
12.5°	526.2	460.6	383.7	352.7	339.3	330.5	323.2	318.5	315.9	312.7	311.9
15°	566.3	485.7	397.9	364.4	348.4	337.1	328.0	320.7	315.9	311.9	310.8
17.5°	607.8	511.2	410.7	372.4	352.7	339.3	326.1	316.3	310.5	305.4	303.9
20°	654.5	537.5	419.1	373.9	351.3	333.4	318.1	305.7	299.9	293.0	291.5
22.5°	703.3	561.9	422.7	370.6	343.3	322.5	306.1	293.3	285.0	277.7	275.5
25°	750.7	583.8	420.9	361.5	331.2	307.2	290.4	277.3	268.2	260.9	259.1
27.5°	800.9	602.0	414.3	348.0	314.8	290.4	274.4	263.1	254.7	246.7	244.9
30°	857.4	618.7	403.8	331.6	295.5	273.3	260.9	253.3	244.1	235.8	233.2
32.5°	925.6	633.7	388.4	311.9	278.4	258.4	251.4	245.6	235.0	226.3	224.5
35°	1003.6	646.1	369.1	291.5	261.6	248.9	247.4	239.8	225.9	215.7	213.5
37.5°	1093.9	658.1	346.2	271.5	249.2	244.5	244.9	231.8	215.0	202.6	201.1
40°	1191.2	670.1	320.7	254.0	238.0	242.0	238.7	220.1	192.8	180.7	179.3
42.5°	1292.5	683.2	294.8	237.6	228.5	232.1	227.4	196.8	177.1	170.9	170.2
45°	1384.0	698.9	266.7	221.2	219.0	217.9	209.9	178.2	169.8	165.4	165.1
47.5°	1449.9	696.4	236.9	205.5	208.8	205.2	180.7	169.4	162.5	156.7	155.2
50°	1437.9	651.9	205.9	188.0	195.7	192.4	162.5	159.2	153.0	146.9	144.7
52.5°	1407.3	591.4	178.9	169.4	181.5	173.8	150.1	146.9	141.4	133.4	130.8
55°	1423.7	534.6	157.8	154.5	166.9	143.9	136.3	131.2	125.4	116.6	115.5
57.5°	1370.9	436.2	126.8	129.0	147.6	122.8	119.5	111.5	101.7	95.8	95.1
60°	948.9	234.3	79.4	82.0	106.8	103.1	107.1	99.8	87.8	82.4	81.3
62.5°	435.8	94.0	43.4	41.5	56.1	70.0	91.8	91.1	76.2	67.4	66.7
65°	105.7	43.0	31.0	29.2	31.7	41.9	59.8	71.8	61.6	51.4	50.3
67.5°	34.3	35.0	28.4	26.6	28.1	31.3	35.7	39.7	39.4	36.1	35.3
70°	27.3	31.7	26.2	24.1	24.1	25.1	24.1	19.3	16.8	18.2	18.9
72.5°	20.4	24.1	20.8	18.6	17.9	17.5	14.9	10.9	7.7	6.9	6.6
75°	12.0	13.5	12.8	10.9	10.2	9.1	7.3	4.7	2.6	1.8	1.1
77.5°	2.2	2.6	2.9	2.2	1.8	1.5	1.1	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)