

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: P630077

Luminaire Tested: GWS-SA1C-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630077
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-SA1C-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.6 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

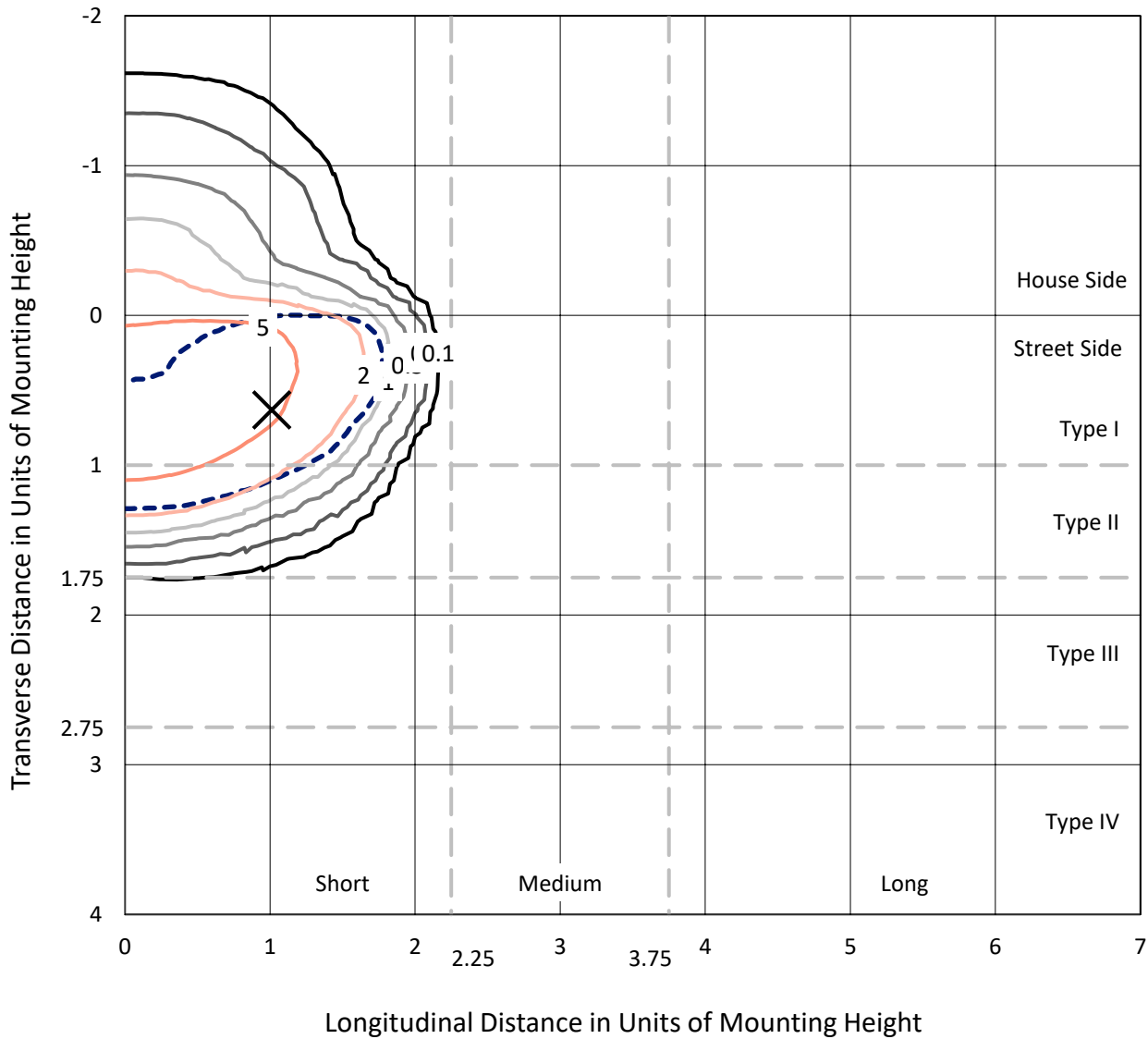
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

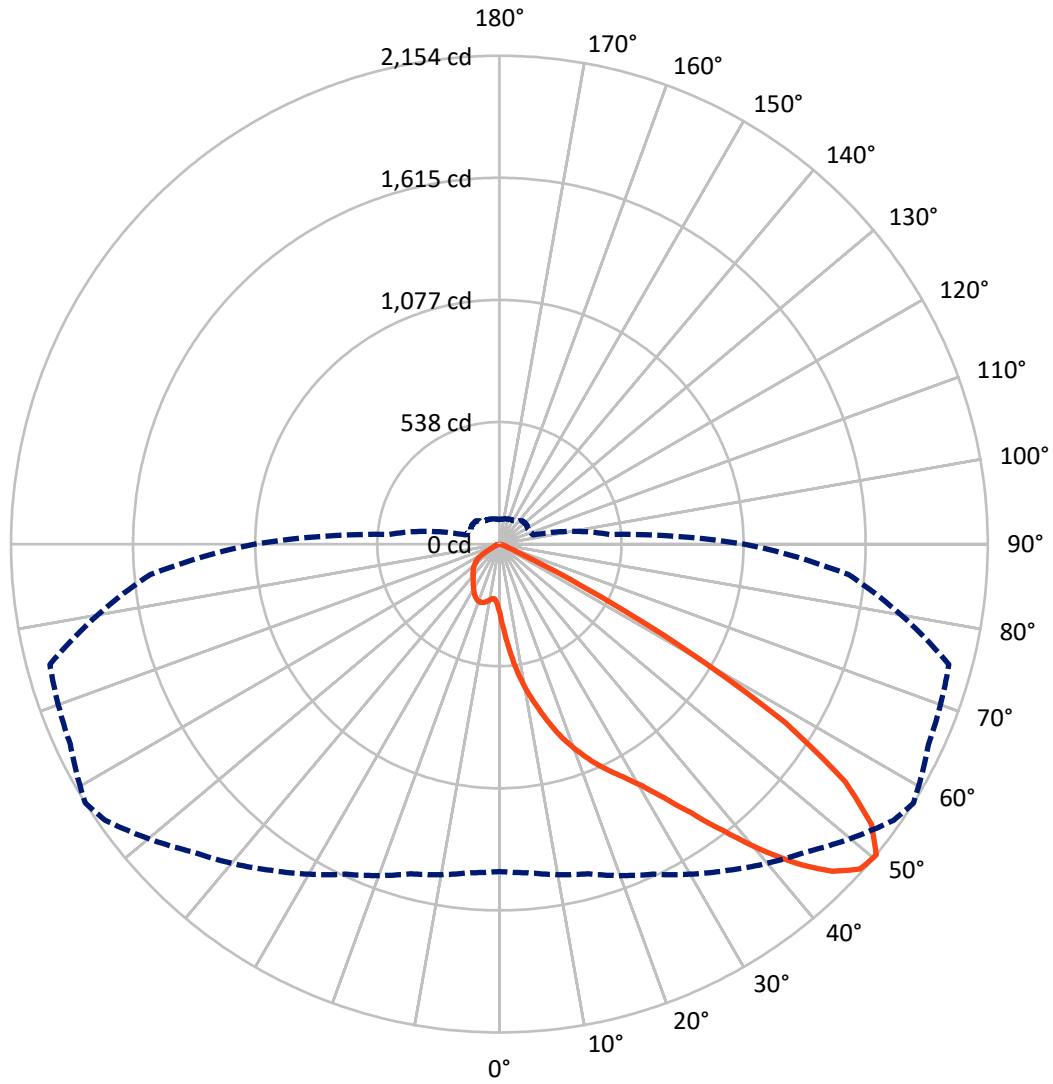
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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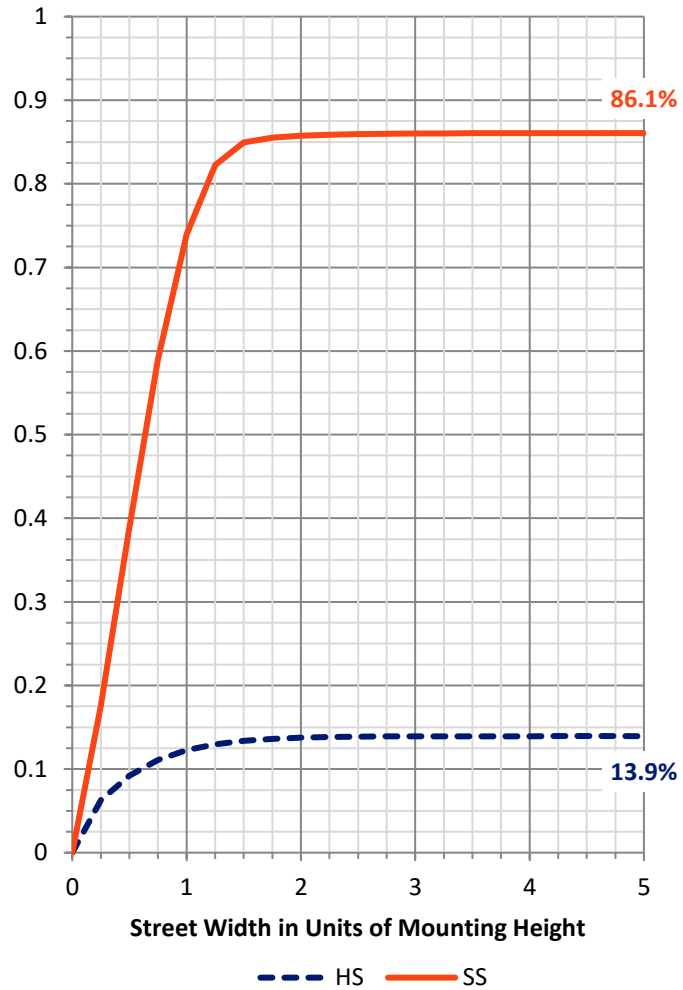
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	358.5	0.0	358.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2201.1	0.0	2201.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	2559.6	0.0	2559.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	1.5
10°-20°	149.9	5.9
20°-30°	303.4	11.9
30°-40°	536.8	21.0
40°-50°	782.5	30.6
50°-60°	627.2	24.5
60°-70°	113.0	4.4
70°-80°	8.9	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°	2559.6	100.0
0°-180°	2559.6	100.0

Coefficient of Utilization



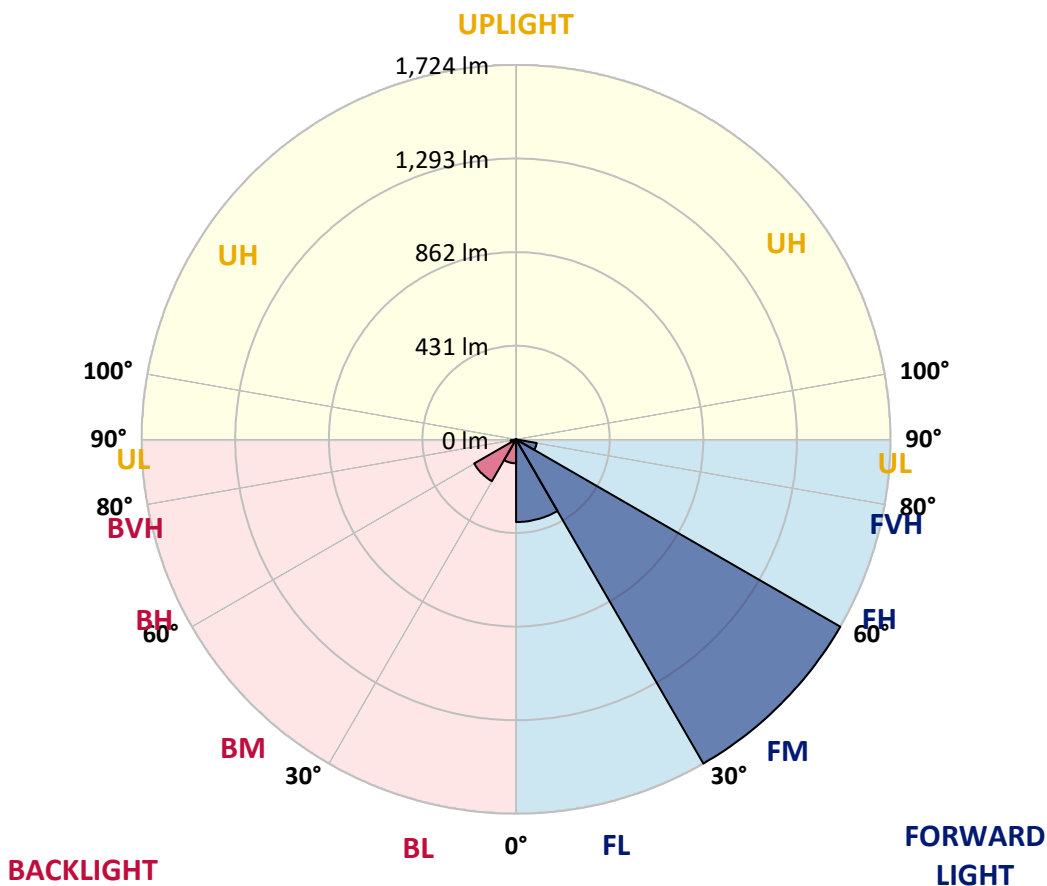
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.9	14.9			
FM (30°-60°)	1723.8	67.3			
FH (60°-80°)	96.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	110.4	4.3	B1/500		
BM (30°-60°)	222.7	8.7	B1/1000		
BH (60°-80°)	25.5	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°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	452.5	445.3	441.2	437.9	423.4	400.4	385.4	377.5	364.3	342.1	323.0
5°	590.4	585.2	575.6	569.1	550.4	517.9	484.2	470.8	441.0	390.9	346.0
7.5°	681.8	678.0	674.4	665.7	648.2	618.6	581.4	567.4	521.4	450.3	376.6
10°	752.2	749.2	745.1	744.8	731.1	704.5	668.1	653.6	603.8	514.9	412.8
12.5°	814.0	811.6	810.7	818.4	809.6	789.9	750.5	732.5	679.6	580.8	452.7
15°	856.5	855.9	859.5	874.5	879.4	870.4	837.3	817.9	757.1	647.1	496.8
17.5°	875.9	877.5	884.4	910.4	932.3	939.9	914.5	898.1	834.0	714.1	543.9
20°	909.0	908.5	912.6	937.2	964.0	991.4	983.7	969.8	911.7	785.0	596.2
22.5°	1002.3	994.4	985.6	989.5	999.1	1031.1	1045.3	1038.2	991.9	857.8	650.1
25°	1145.8	1137.6	1109.4	1082.0	1063.9	1078.4	1097.9	1101.4	1071.6	932.5	706.5
27.5°	1298.0	1290.6	1258.8	1217.8	1166.0	1140.8	1155.4	1162.5	1149.9	1021.5	766.4
30°	1440.6	1430.7	1395.9	1345.0	1285.1	1246.5	1230.1	1235.0	1242.4	1126.9	836.7
32.5°	1564.3	1556.9	1515.3	1461.6	1403.9	1363.6	1325.3	1333.5	1351.6	1255.8	926.8
35°	1669.1	1665.3	1621.2	1567.8	1506.8	1486.3	1453.4	1455.1	1473.1	1411.5	1036.6
37.5°	1760.3	1753.7	1713.7	1664.2	1615.7	1612.5	1603.4	1604.2	1613.6	1593.0	1162.7
40°	1817.7	1811.7	1783.3	1752.6	1718.1	1718.7	1765.5	1769.0	1758.3	1771.2	1296.0
42.5°	1839.4	1835.0	1819.7	1819.9	1816.4	1832.5	1920.4	1927.0	1888.6	1911.1	1409.9
45°	1801.9	1800.0	1801.0	1840.5	1883.2	1933.0	2047.1	2058.6	2004.4	2003.9	1498.9
47.5°	1680.9	1677.1	1709.1	1776.1	1874.9	1971.8	2123.8	2141.5	2085.4	2057.0	1554.7
50°	1443.8	1454.8	1505.4	1606.2	1756.4	1918.5	2122.9	2153.9	2088.4	2052.3	1545.4
52.5°	1045.9	1043.7	1154.5	1293.0	1475.9	1747.7	2010.2	2055.3	2015.4	2006.6	1524.6
55°	569.1	589.0	663.8	847.1	1075.4	1424.4	1752.6	1851.1	1897.4	1989.9	1562.1
57.5°	209.1	217.9	264.7	394.4	569.3	885.7	1338.7	1487.4	1630.2	1943.4	1555.8
60°	84.3	85.9	104.6	145.1	239.2	450.8	803.1	935.0	1069.7	1487.6	1193.9
62.5°	61.3	63.5	70.9	84.9	121.0	197.1	346.2	402.6	440.1	736.8	588.2
65°	49.5	51.2	57.2	63.5	79.9	105.9	111.7	107.6	107.0	190.5	134.9
67.5°	41.1	42.7	47.1	51.5	57.5	52.8	38.3	40.2	32.8	32.6	26.6
70°	30.1	32.0	36.4	41.1	34.5	14.2	22.2	32.8	24.9	20.8	20.3
72.5°	22.7	24.1	28.2	26.8	10.1	5.5	14.8	23.8	19.2	15.3	15.1
75°	17.0	17.8	14.2	4.4	1.1	1.4	5.5	9.9	10.7	8.8	8.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.8	1.1	1.4	1.6
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°	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7	305.7
2.5°	312.0	300.5	284.1	270.4	260.0	249.9	242.2	234.6	234.3	230.5	229.6
5°	325.2	304.4	274.3	252.6	239.5	231.6	226.1	223.4	222.0	220.6	220.1
7.5°	344.1	314.2	272.6	249.6	238.7	233.5	229.6	228.0	227.2	226.1	225.8
10°	367.3	328.5	278.6	255.4	245.8	240.9	236.8	234.3	232.9	231.0	230.5
12.5°	395.2	346.0	288.2	265.0	254.8	248.3	242.8	239.2	237.3	234.8	234.3
15°	425.4	364.9	298.9	273.7	261.7	253.2	246.3	240.9	237.3	234.3	233.5
17.5°	456.6	384.0	308.5	279.7	265.0	254.8	245.0	237.6	233.2	229.4	228.3
20°	491.6	403.7	314.8	280.8	263.9	250.4	239.0	229.6	225.3	220.1	219.0
22.5°	528.3	422.1	317.5	278.4	257.8	242.2	229.9	220.3	214.0	208.6	206.9
25°	563.9	438.5	316.1	271.5	248.8	230.7	218.2	208.3	201.5	196.0	194.6
27.5°	601.6	452.2	311.2	261.4	236.5	218.2	206.1	197.6	191.3	185.3	183.9
30°	644.1	464.8	303.3	249.1	222.0	205.3	196.0	190.2	183.4	177.1	175.2
32.5°	695.2	476.0	291.8	234.3	209.1	194.1	188.9	184.5	176.5	170.0	168.6
35°	753.8	485.3	277.3	219.0	196.5	186.9	185.9	180.1	169.7	162.0	160.4
37.5°	821.7	494.3	260.0	203.9	187.2	183.7	183.9	174.1	161.5	152.2	151.1
40°	894.8	503.4	240.9	190.8	178.7	181.7	179.3	165.3	144.8	135.8	134.7
42.5°	970.9	513.2	221.4	178.5	171.6	174.4	170.8	147.8	133.0	128.4	127.8
45°	1039.6	525.0	200.4	166.1	164.5	163.7	157.7	133.8	127.6	124.3	124.0
47.5°	1089.1	523.1	177.9	154.4	156.8	154.1	135.8	127.3	122.1	117.7	116.6
50°	1080.1	489.7	154.6	141.2	147.0	144.5	122.1	119.6	115.0	110.3	108.7
52.5°	1057.1	444.2	134.4	127.3	136.3	130.6	112.8	110.3	106.2	100.2	98.3
55°	1069.4	401.5	118.5	116.1	125.4	108.1	102.4	98.5	94.2	87.6	86.8
57.5°	1029.7	327.6	95.3	96.9	110.9	92.2	89.8	83.8	76.4	72.0	71.4
60°	712.8	176.0	59.7	61.6	80.2	77.5	80.5	75.0	66.0	61.9	61.0
62.5°	327.4	70.6	32.6	31.2	42.2	52.6	69.0	68.4	57.2	50.6	50.1
65°	79.4	32.3	23.3	21.9	23.8	31.5	44.9	53.9	46.3	38.6	37.8
67.5°	25.7	26.3	21.3	20.0	21.1	23.5	26.8	29.8	29.6	27.1	26.6
70°	20.5	23.8	19.7	18.1	18.1	18.9	18.1	14.5	12.6	13.7	14.2
72.5°	15.3	18.1	15.6	14.0	13.4	13.1	11.2	8.2	5.7	5.2	4.9
75°	9.0	10.1	9.6	8.2	7.7	6.8	5.5	3.6	1.9	1.4	0.8
77.5°	1.6	1.9	2.2	1.6	1.4	1.1	0.8	0.3	0.0	0.0	0.0
80°	0.0	0.3	0.3	0.3	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)