

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: P629858

Luminaire Tested: GWS-SA1C-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629858
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3222.1 lumens
Efficiency: N/A
Efficacy: 94.5 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

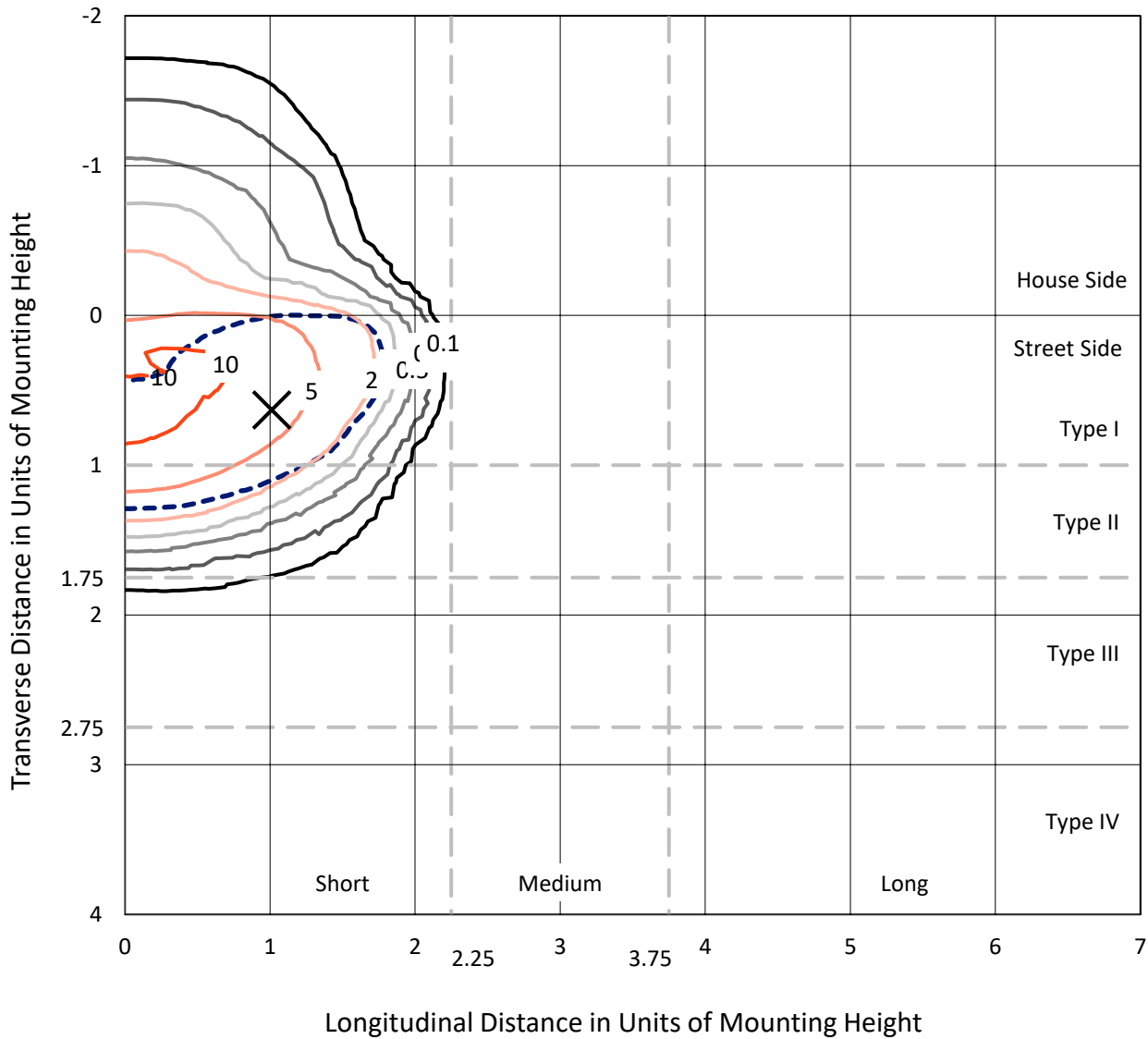
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

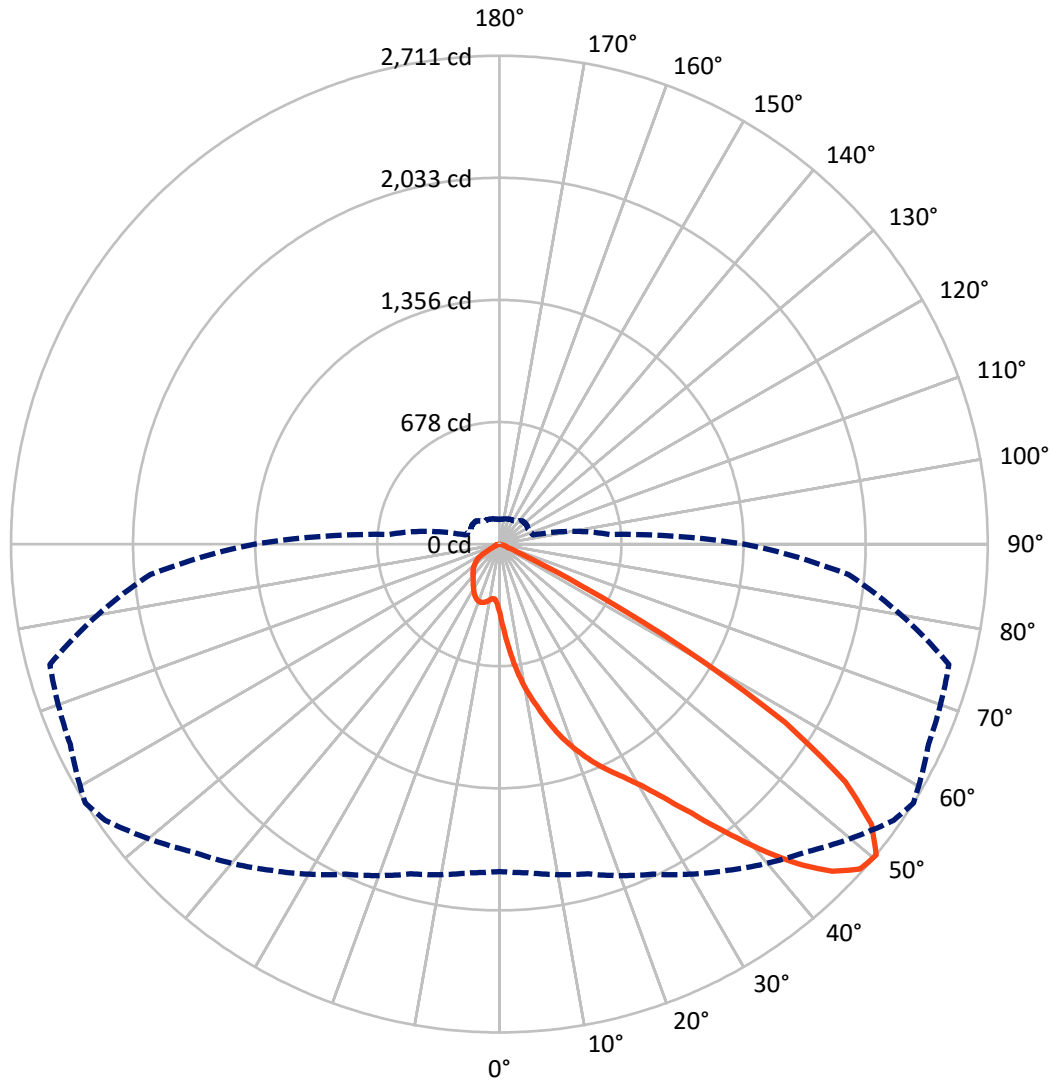
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 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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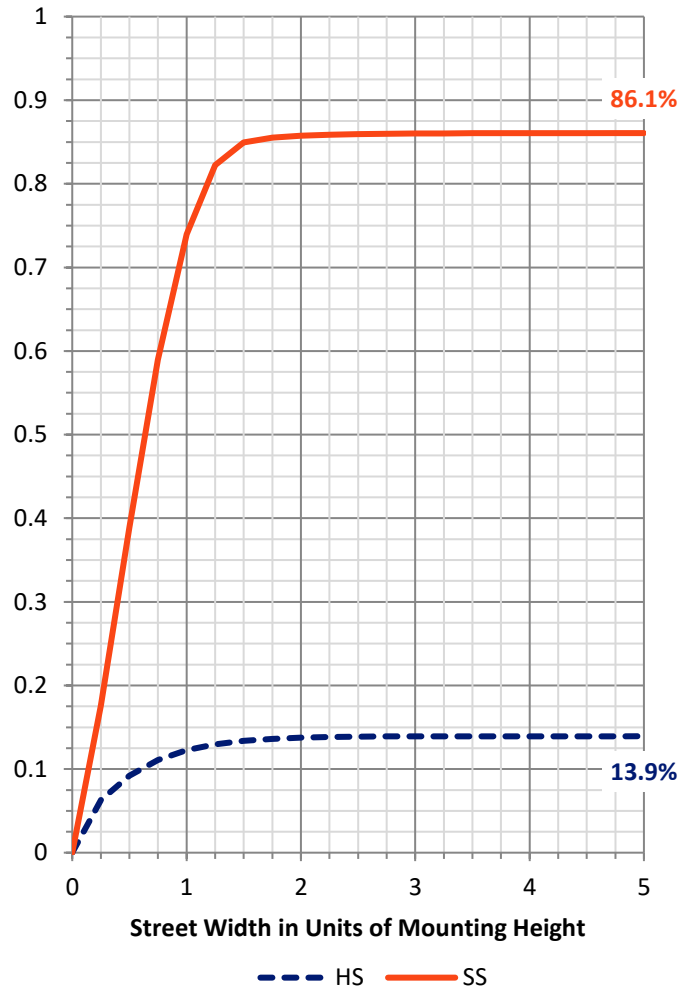
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.3	0.0	451.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2770.8	0.0	2770.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	3222.1	0.0	3222.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	1.5
10°-20°	188.8	5.9
20°-30°	381.9	11.9
30°-40°	675.7	21.0
40°-50°	985.0	30.6
50°-60°	789.5	24.5
60°-70°	142.2	4.4
70°-80°	11.2	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°	3222.1	100.0
0°-180°	3222.1	100.0

Coefficient of Utilization



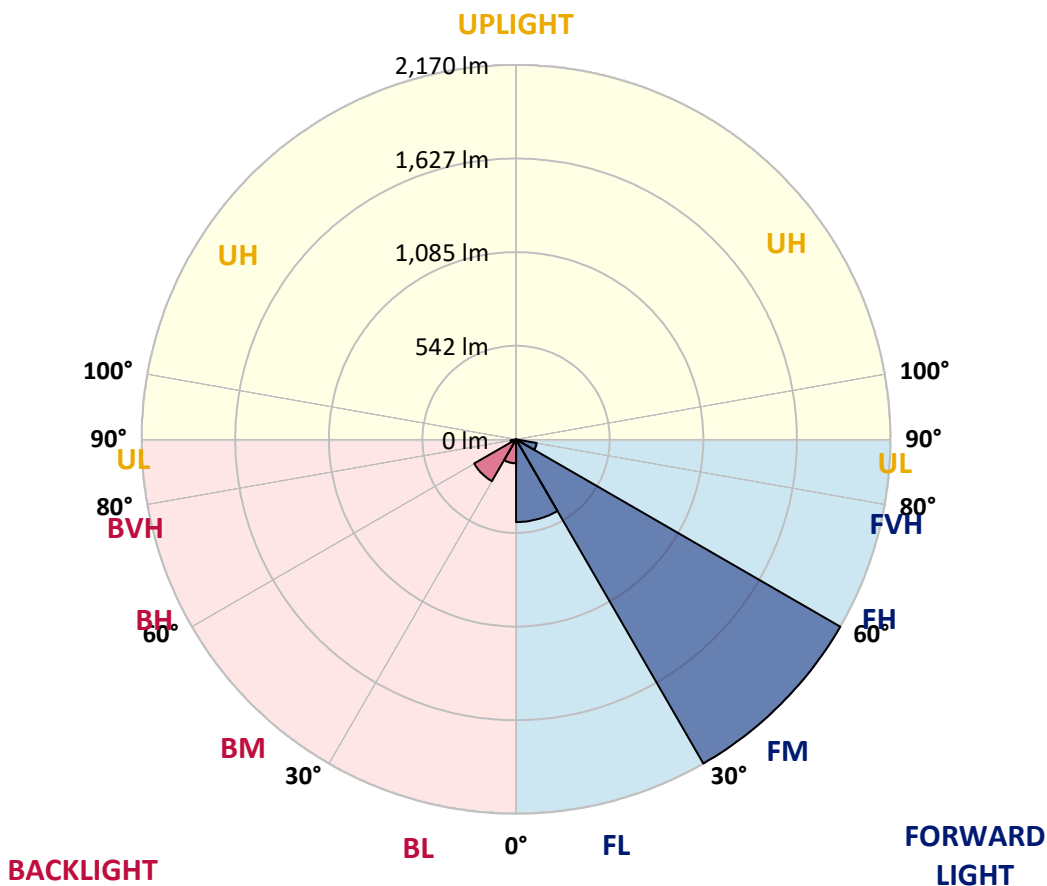
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.4	14.9			
FM (30°-60°)	2170.0	67.3			
FH (60°-80°)	121.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	138.9	4.3	B1/500		
BM (30°-60°)	280.3	8.7	B1/1000		
BH (60°-80°)	32.1	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°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	569.6	560.6	555.4	551.3	533.0	504.1	485.1	475.1	458.6	430.7	406.6
5°	743.2	736.7	724.6	716.3	692.9	651.9	609.5	592.6	555.1	492.0	435.5
7.5°	858.3	853.5	849.0	838.0	815.9	778.7	731.8	714.3	656.4	566.8	474.1
10°	946.9	943.1	937.9	937.5	920.3	886.9	841.1	822.8	760.1	648.1	519.6
12.5°	1024.7	1021.6	1020.6	1030.2	1019.2	994.4	944.8	922.0	855.5	731.2	569.9
15°	1078.1	1077.4	1081.9	1100.9	1107.1	1095.7	1054.0	1029.5	953.1	814.5	625.4
17.5°	1102.6	1104.7	1113.3	1146.0	1173.6	1183.2	1151.2	1130.5	1049.9	899.0	684.6
20°	1144.3	1143.6	1148.8	1179.8	1213.5	1248.0	1238.4	1220.8	1147.7	988.2	750.5
22.5°	1261.8	1251.8	1240.8	1245.6	1257.6	1298.0	1315.9	1306.9	1248.7	1079.9	818.3
25°	1442.3	1432.0	1396.5	1362.0	1339.3	1357.6	1382.0	1386.5	1349.0	1173.9	889.3
27.5°	1633.9	1624.6	1584.6	1533.0	1467.8	1436.1	1454.4	1463.3	1447.5	1285.9	964.8
30°	1813.4	1801.0	1757.3	1693.2	1617.7	1569.1	1548.5	1554.7	1564.0	1418.6	1053.3
32.5°	1969.2	1959.9	1907.5	1840.0	1767.3	1716.6	1668.4	1678.7	1701.4	1580.8	1166.7
35°	2101.1	2096.3	2040.8	1973.6	1896.8	1871.0	1829.6	1831.7	1854.4	1776.9	1304.9
37.5°	2215.9	2207.6	2157.3	2094.9	2033.9	2029.8	2018.4	2019.5	2031.2	2005.3	1463.7
40°	2288.2	2280.6	2244.8	2206.2	2162.8	2163.5	2222.4	2226.9	2213.5	2229.7	1631.5
42.5°	2315.4	2309.9	2290.6	2291.0	2286.5	2306.8	2417.4	2425.7	2377.5	2405.7	1774.8
45°	2268.2	2265.8	2267.2	2316.8	2370.6	2433.3	2577.0	2591.4	2523.2	2522.5	1886.8
47.5°	2115.9	2111.1	2151.4	2235.9	2360.2	2482.2	2673.4	2695.8	2625.2	2589.4	1957.1
50°	1817.6	1831.3	1895.1	2021.9	2211.0	2415.0	2672.4	2711.3	2629.0	2583.5	1945.4
52.5°	1316.6	1313.8	1453.4	1627.7	1857.9	2200.0	2530.5	2587.3	2537.0	2526.0	1919.2
55°	716.3	741.5	835.6	1066.4	1353.8	1793.1	2206.2	2330.3	2388.5	2505.0	1966.4
57.5°	263.2	274.3	333.2	496.5	716.7	1115.0	1685.2	1872.3	2052.2	2446.4	1958.5
60°	106.1	108.2	131.6	182.6	301.1	567.5	1010.9	1177.0	1346.5	1872.7	1503.0
62.5°	77.2	79.9	89.2	106.8	152.3	248.1	435.9	506.8	554.1	927.6	740.5
65°	62.4	64.4	72.0	79.9	100.6	133.3	140.6	135.4	134.7	239.8	169.9
67.5°	51.7	53.8	59.3	64.8	72.4	66.5	48.2	50.7	41.3	41.0	33.4
70°	37.9	40.3	45.8	51.7	43.4	17.9	27.9	41.3	31.4	26.2	25.5
72.5°	28.6	30.3	35.5	33.8	12.7	6.9	18.6	30.0	24.1	19.3	19.0
75°	21.4	22.4	17.9	5.5	1.4	1.7	6.9	12.4	13.4	11.0	11.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.4	1.7	2.1
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°	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9	384.9
2.5°	392.8	378.3	357.7	340.4	327.3	314.6	304.9	295.3	294.9	290.1	289.1
5°	409.3	383.2	345.2	318.0	301.5	291.5	284.6	281.2	279.4	277.7	277.0
7.5°	433.1	395.6	343.2	314.2	300.5	293.9	289.1	287.0	286.0	284.6	284.3
10°	462.4	413.5	350.8	321.5	309.4	303.2	298.0	294.9	293.2	290.8	290.1
12.5°	497.5	435.5	362.8	333.5	320.8	312.5	305.6	301.1	298.7	295.6	294.9
15°	535.4	459.3	376.3	344.6	329.4	318.7	310.1	303.2	298.7	294.9	293.9
17.5°	574.7	483.4	388.3	352.1	333.5	320.8	308.4	299.1	293.6	288.7	287.4
20°	618.8	508.2	396.2	353.5	332.2	315.3	300.8	289.1	283.6	277.0	275.6
22.5°	665.0	531.3	399.7	350.4	324.6	304.9	289.4	277.4	269.4	262.6	260.5
25°	709.8	552.0	398.0	341.8	313.2	290.5	274.6	262.2	253.6	246.7	245.0
27.5°	757.3	569.2	391.8	329.1	297.7	274.6	259.5	248.8	240.8	233.3	231.5
30°	810.8	585.1	381.8	313.6	279.4	258.4	246.7	239.5	230.9	222.9	220.5
32.5°	875.2	599.2	367.3	294.9	263.2	244.3	237.7	232.2	222.2	214.0	212.2
35°	948.9	610.9	349.0	275.6	247.4	235.3	234.0	226.7	213.6	204.0	201.9
37.5°	1034.4	622.3	327.3	256.7	235.7	231.2	231.5	219.1	203.3	191.6	190.2
40°	1126.4	633.6	303.2	240.2	225.0	228.8	225.7	208.1	182.3	170.9	169.5
42.5°	1222.2	646.1	278.7	224.7	216.0	219.5	215.0	186.1	167.5	161.6	160.9
45°	1308.6	660.9	252.2	209.1	207.1	206.0	198.5	168.5	160.6	156.4	156.1
47.5°	1371.0	658.5	224.0	194.3	197.4	194.0	170.9	160.2	153.7	148.2	146.8
50°	1359.6	616.4	194.7	177.8	185.0	181.9	153.7	150.6	144.7	138.9	136.8
52.5°	1330.7	559.2	169.2	160.2	171.6	164.4	142.0	138.9	133.7	126.1	123.7
55°	1346.2	505.5	149.2	146.1	157.8	136.1	128.9	124.0	118.5	110.3	109.2
57.5°	1296.2	412.4	119.9	122.0	139.5	116.1	113.0	105.4	96.1	90.6	89.9
60°	897.2	221.6	75.1	77.5	101.0	97.5	101.3	94.4	83.0	77.9	76.8
62.5°	412.1	88.9	41.0	39.3	53.1	66.2	86.8	86.1	72.0	63.7	63.1
65°	99.9	40.7	29.3	27.6	30.0	39.6	56.5	67.9	58.2	48.6	47.5
67.5°	32.4	33.1	26.9	25.2	26.5	29.6	33.8	37.6	37.2	34.1	33.4
70°	25.8	30.0	24.8	22.7	22.7	23.8	22.7	18.3	15.8	17.2	17.9
72.5°	19.3	22.7	19.6	17.6	16.9	16.5	14.1	10.3	7.2	6.5	6.2
75°	11.4	12.7	12.1	10.3	9.6	8.6	6.9	4.5	2.4	1.7	1.0
77.5°	2.1	2.4	2.8	2.1	1.7	1.4	1.0	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)