

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: P631917

Luminaire Tested: GWS-SA2B-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5243.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

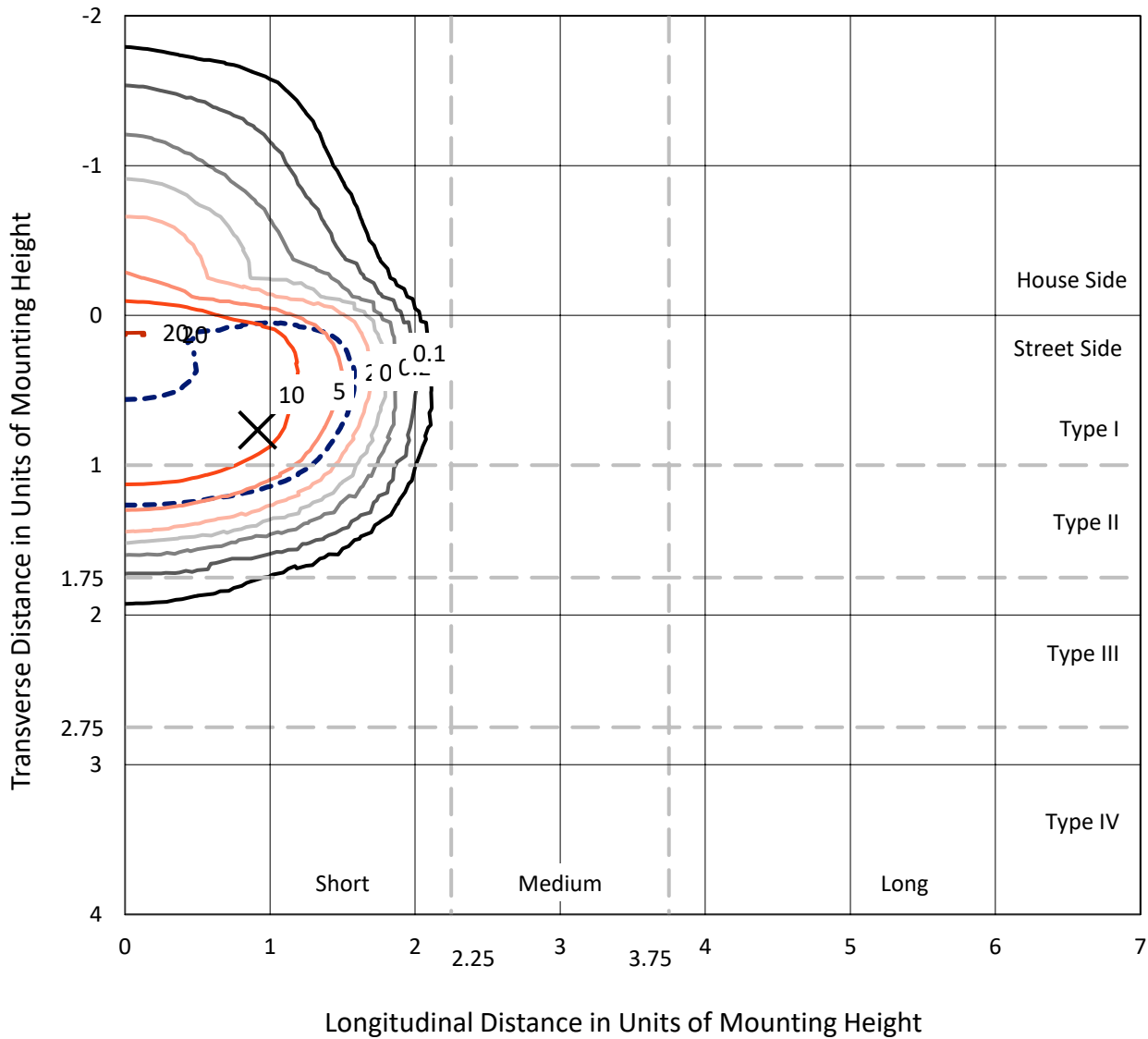
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

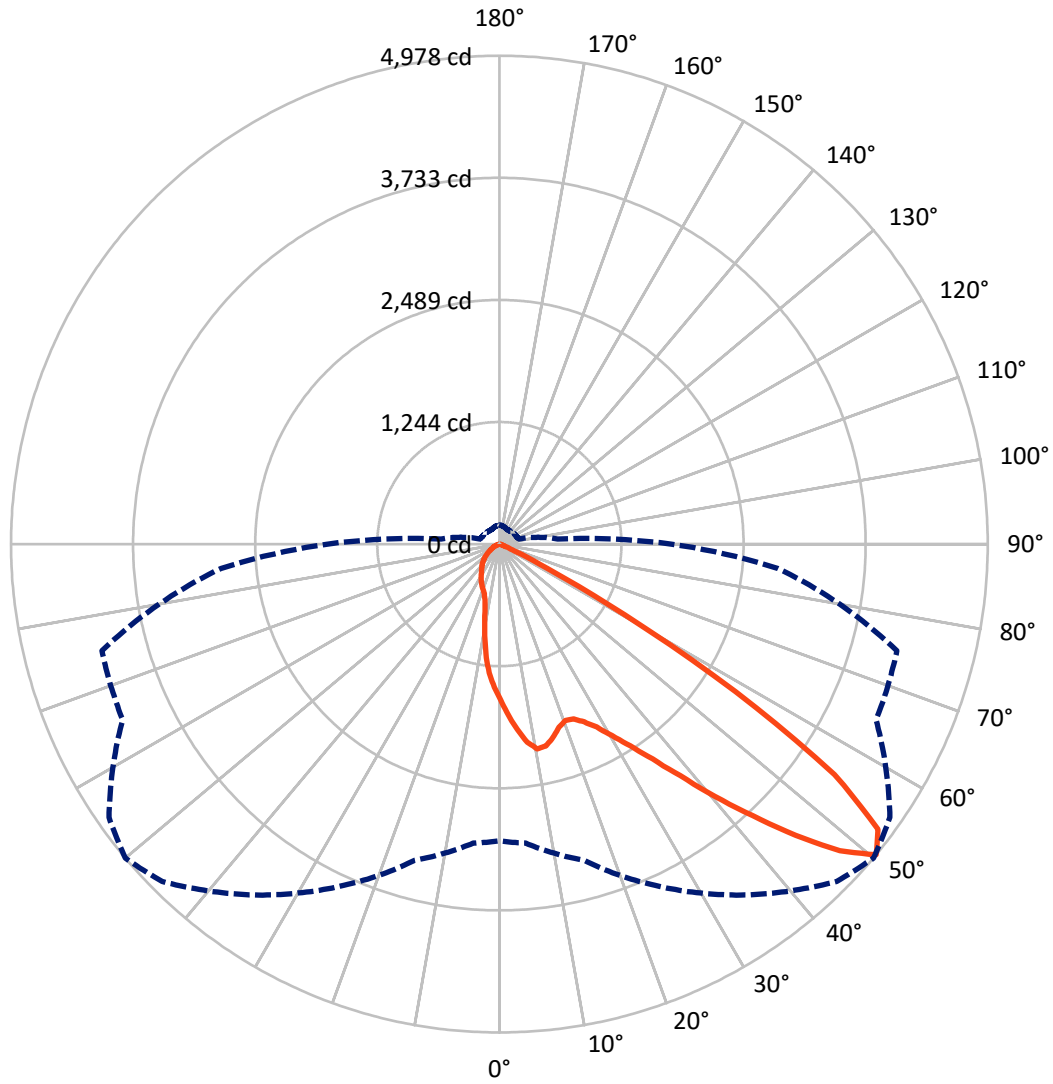
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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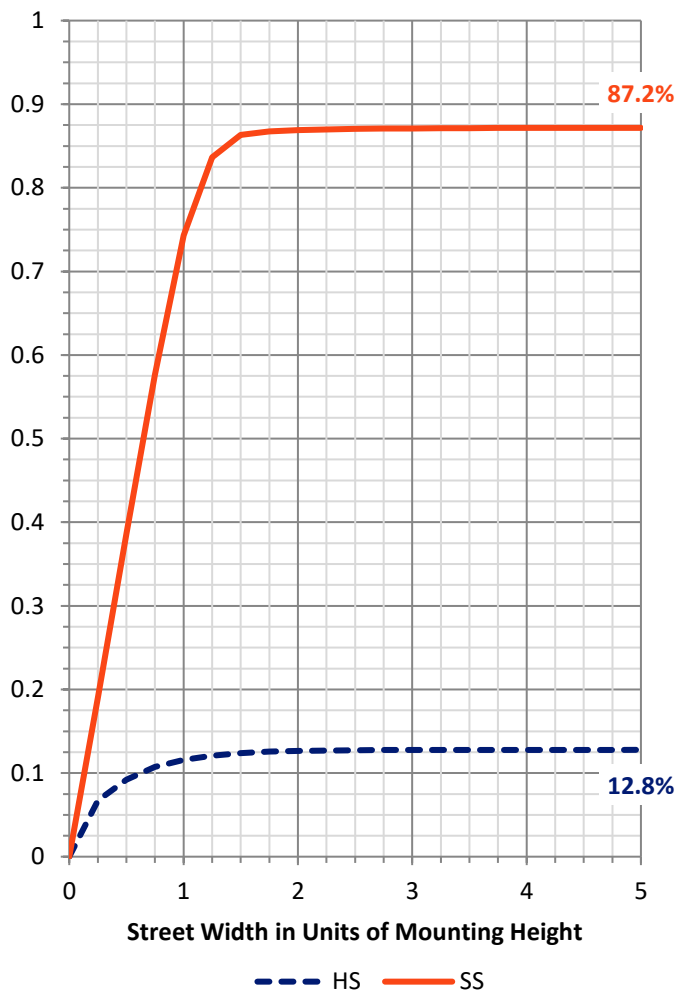
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.8	0.0	673.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4570.1	0.0	4570.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	5243.9	0.0	5243.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.8
10°-20°	380.2	7.3
20°-30°	627.5	12.0
30°-40°	1035.6	19.7
40°-50°	1638.5	31.2
50°-60°	1240.5	23.7
60°-70°	155.3	3.0
70°-80°	17.6	0.3
80°-90°	1.3	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°	5243.9	100.0
0°-180°	5243.9	100.0

Coefficient of Utilization

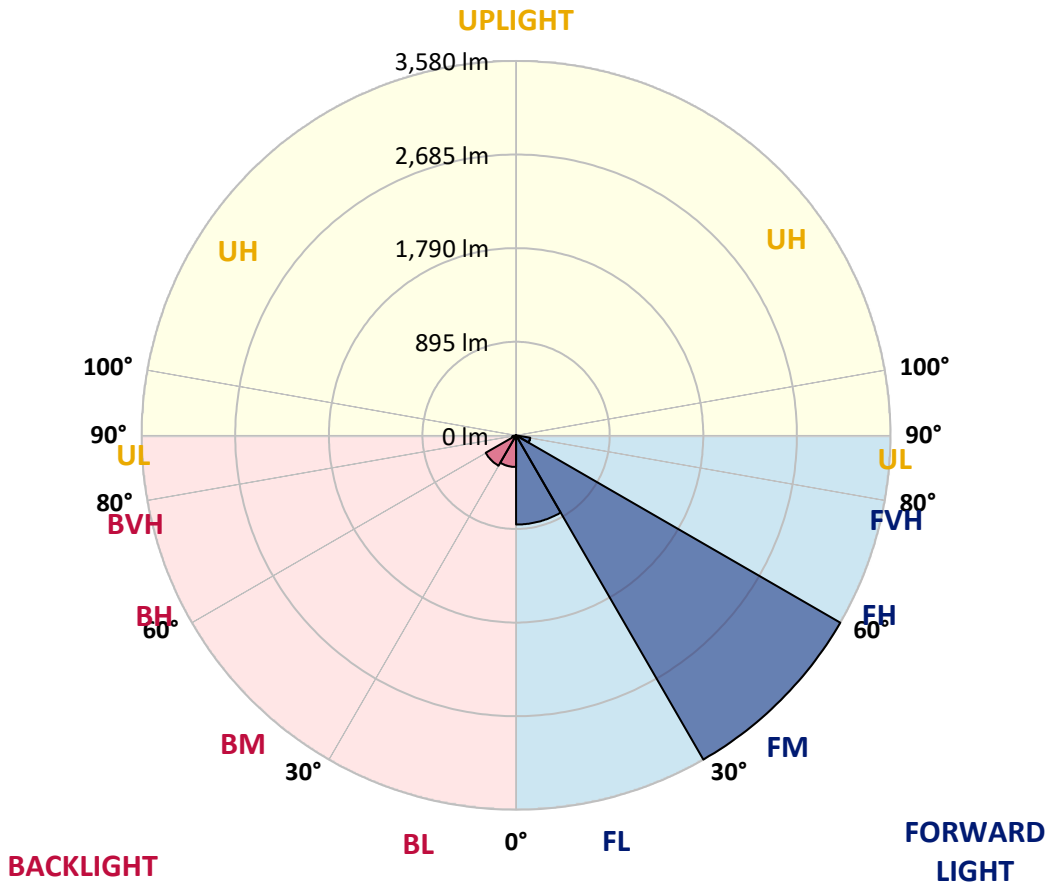


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.7	16.3			
FM (30°-60°)	3579.5	68.3			
FH (60°-80°)	137.3	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	302.4	5.8	B1/500		
BM (30°-60°)	335.1	6.4	B1/1000		
BH (60°-80°)	35.6	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	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°	50°	55°	65°	75°	85°
0°	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7
2.5°	1810.3	1824.8	1820.8	1801.8	1781.4	1766.9	1744.4	1737.4	1686.5	1651.1	1613.6
5°	2028.9	2033.4	2028.4	2005.5	1969.5	1935.1	1898.1	1876.7	1791.3	1714.5	1636.1
7.5°	2081.3	2075.8	2085.3	2096.8	2091.8	2076.8	2037.9	2014.4	1912.6	1787.3	1668.6
10°	1917.6	1905.1	1940.6	2000.0	2062.4	2132.7	2122.7	2124.7	2030.9	1879.2	1711.0
12.5°	1700.5	1695.5	1722.0	1790.8	1913.1	2072.8	2111.3	2175.7	2139.2	1978.5	1759.4
15°	1605.2	1607.7	1623.6	1667.1	1754.9	1953.5	2045.9	2162.2	2236.0	2074.8	1812.8
17.5°	1619.6	1628.6	1628.1	1642.6	1696.0	1855.2	1963.0	2119.8	2310.9	2185.6	1874.2
20°	1718.0	1726.9	1713.5	1702.5	1720.5	1830.3	1919.6	2076.8	2361.3	2297.4	1939.1
22.5°	1865.2	1875.7	1843.7	1812.3	1800.8	1871.2	1936.1	2059.4	2399.8	2399.8	1997.0
25°	2043.4	2057.9	2008.5	1952.6	1920.6	1957.5	2006.5	2098.8	2439.2	2491.6	2036.4
27.5°	2242.5	2243.0	2200.6	2137.7	2077.8	2082.3	2111.8	2187.6	2482.6	2590.4	2067.3
30°	2466.6	2468.1	2411.7	2336.4	2261.0	2240.5	2265.5	2322.9	2573.0	2714.7	2110.3
32.5°	2756.1	2763.1	2682.3	2571.5	2473.6	2435.2	2449.7	2510.1	2716.7	2870.4	2174.7
35°	3147.4	3154.9	3035.6	2889.4	2733.7	2675.8	2690.2	2751.1	2924.8	3091.5	2277.5
37.5°	3533.8	3543.7	3423.0	3286.7	3073.1	2977.2	2992.2	3050.1	3237.3	3397.0	2442.2
40°	3800.8	3814.3	3776.8	3685.0	3486.8	3361.1	3379.0	3400.0	3581.2	3762.4	2655.8
42.5°	3941.5	3960.5	3976.5	4023.4	3919.1	3813.8	3783.3	3784.8	3931.1	4134.7	2877.9
45°	3950.0	3968.5	4050.3	4231.5	4310.9	4288.9	4233.5	4196.1	4198.1	4382.8	3016.7
47.5°	3675.5	3709.9	3863.2	4218.0	4516.5	4698.7	4670.7	4581.9	4310.4	4399.2	3001.7
50°	3025.2	3059.1	3337.6	3848.2	4366.8	4862.4	4977.7	4858.4	4237.0	4194.1	2847.5
52.5°	2197.1	2200.6	2381.3	2977.7	3759.9	4560.4	4832.0	4820.5	4125.2	3945.5	2636.8
55°	1043.7	1031.2	1234.3	1680.5	2600.4	3688.5	4146.2	4275.9	3966.5	3765.8	2473.6
57.5°	304.0	310.0	400.3	655.8	1300.7	2357.3	2839.5	3081.1	3255.7	3096.0	1918.6
60°	136.3	136.8	152.2	199.6	433.2	1096.6	1467.9	1766.9	1946.6	1803.8	951.8
62.5°	98.8	99.3	105.3	112.8	147.2	371.3	550.5	733.7	747.2	489.1	241.1
65°	82.4	82.4	83.4	83.4	88.3	132.8	167.2	215.6	181.7	134.8	94.3
67.5°	66.4	66.9	67.9	67.9	66.4	66.4	71.9	78.9	84.4	104.3	86.8
70°	51.9	51.4	51.4	51.9	50.4	42.9	46.4	52.9	57.9	81.4	75.4
72.5°	40.4	40.9	40.4	38.4	34.9	25.5	27.5	34.4	36.9	50.9	50.9
75°	30.4	30.9	28.9	22.0	14.5	8.0	10.5	17.0	21.5	25.0	18.5
77.5°	4.0	4.0	3.0	3.0	2.5	3.0	3.0	4.0	6.0	6.0	4.5
80°	0.5	0.5	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.5	2.5
82.5°	0.5	0.5	0.5	0.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.5	2.0	2.0	2.0
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°	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7	1588.7
2.5°	1591.2	1562.2	1527.3	1503.3	1469.4	1446.9	1415.0	1393.5	1375.1	1360.6	1368.6
5°	1591.7	1545.8	1474.4	1413.5	1347.1	1286.2	1220.8	1169.4	1123.0	1102.1	1113.5
7.5°	1601.7	1535.8	1426.5	1318.2	1190.9	1065.1	947.3	851.5	804.1	781.6	788.6
10°	1621.1	1531.3	1373.1	1193.4	986.8	815.1	700.8	635.9	609.4	595.4	597.9
12.5°	1639.1	1528.3	1303.7	1029.2	778.6	632.4	573.0	564.0	569.5	570.0	569.5
15°	1663.6	1522.8	1217.8	860.5	622.9	546.5	548.0	561.0	574.0	578.0	577.0
17.5°	1689.5	1514.3	1107.0	698.8	528.6	521.6	539.0	556.5	569.5	571.5	572.0
20°	1716.5	1496.9	980.8	570.5	484.6	502.6	522.1	535.1	544.5	547.5	548.5
22.5°	1728.9	1459.9	835.0	478.7	455.2	479.2	493.6	510.6	513.6	502.6	504.6
25°	1722.5	1397.5	692.8	416.8	425.7	449.7	471.2	462.7	450.2	442.2	444.7
27.5°	1702.0	1314.7	553.5	371.3	394.3	424.7	427.2	417.8	415.8	409.3	411.3
30°	1680.0	1219.3	445.2	334.9	362.4	394.3	386.8	390.3	390.8	383.3	385.8
32.5°	1666.6	1119.5	354.4	310.5	341.9	347.9	362.9	369.8	370.3	352.9	355.9
35°	1671.0	1021.2	300.0	290.5	322.9	321.4	342.4	346.4	317.4	293.5	296.0
37.5°	1707.5	930.4	269.0	275.0	290.0	301.5	317.4	291.0	284.5	273.5	275.0
40°	1775.4	853.0	250.6	265.5	267.5	286.0	261.5	265.0	265.5	258.5	260.0
42.5°	1854.7	788.6	239.6	260.0	255.0	258.0	233.6	240.6	248.1	245.1	245.6
45°	1894.7	725.7	230.1	241.1	242.6	214.1	208.6	216.1	225.6	227.1	227.6
47.5°	1859.2	665.8	220.1	213.6	223.6	195.2	188.7	191.2	202.1	208.1	209.1
50°	1750.9	596.9	205.1	189.2	183.7	175.2	169.2	169.7	182.2	192.7	194.7
52.5°	1598.7	525.1	180.7	160.2	147.7	154.2	155.7	152.7	164.2	174.7	176.7
55°	1450.9	435.2	143.2	130.3	118.8	132.8	136.8	132.8	136.3	143.2	143.7
57.5°	1021.7	246.1	109.8	107.8	98.3	113.8	120.3	114.3	108.3	112.8	113.8
60°	473.7	128.8	84.4	84.4	81.9	97.8	108.8	100.3	88.8	90.8	92.3
62.5°	148.2	81.4	61.9	58.4	66.9	83.4	92.3	83.9	70.4	70.4	72.4
65°	83.9	69.9	48.9	44.9	54.4	66.9	72.4	63.4	51.4	50.4	50.4
67.5°	77.9	66.4	43.4	36.4	38.4	42.9	44.9	38.9	35.4	34.9	35.4
70°	64.4	55.4	34.9	25.0	23.5	23.0	24.0	22.5	21.5	22.0	23.5
72.5°	39.9	33.4	22.0	15.0	13.0	12.5	12.5	12.5	12.0	12.0	12.0
75°	14.5	12.5	10.0	7.5	6.5	6.0	6.0	6.5	6.0	5.5	5.0
77.5°	4.5	4.0	4.0	4.0	3.5	3.0	2.5	2.5	2.0	1.5	1.5
80°	2.5	2.5	2.5	2.5	2.0	2.0	1.5	1.0	0.5	0.5	0.0
82.5°	2.5	2.5	2.5	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	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)