

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: P631862

Luminaire Tested: GWS-SA2B-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631862
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5316.7 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

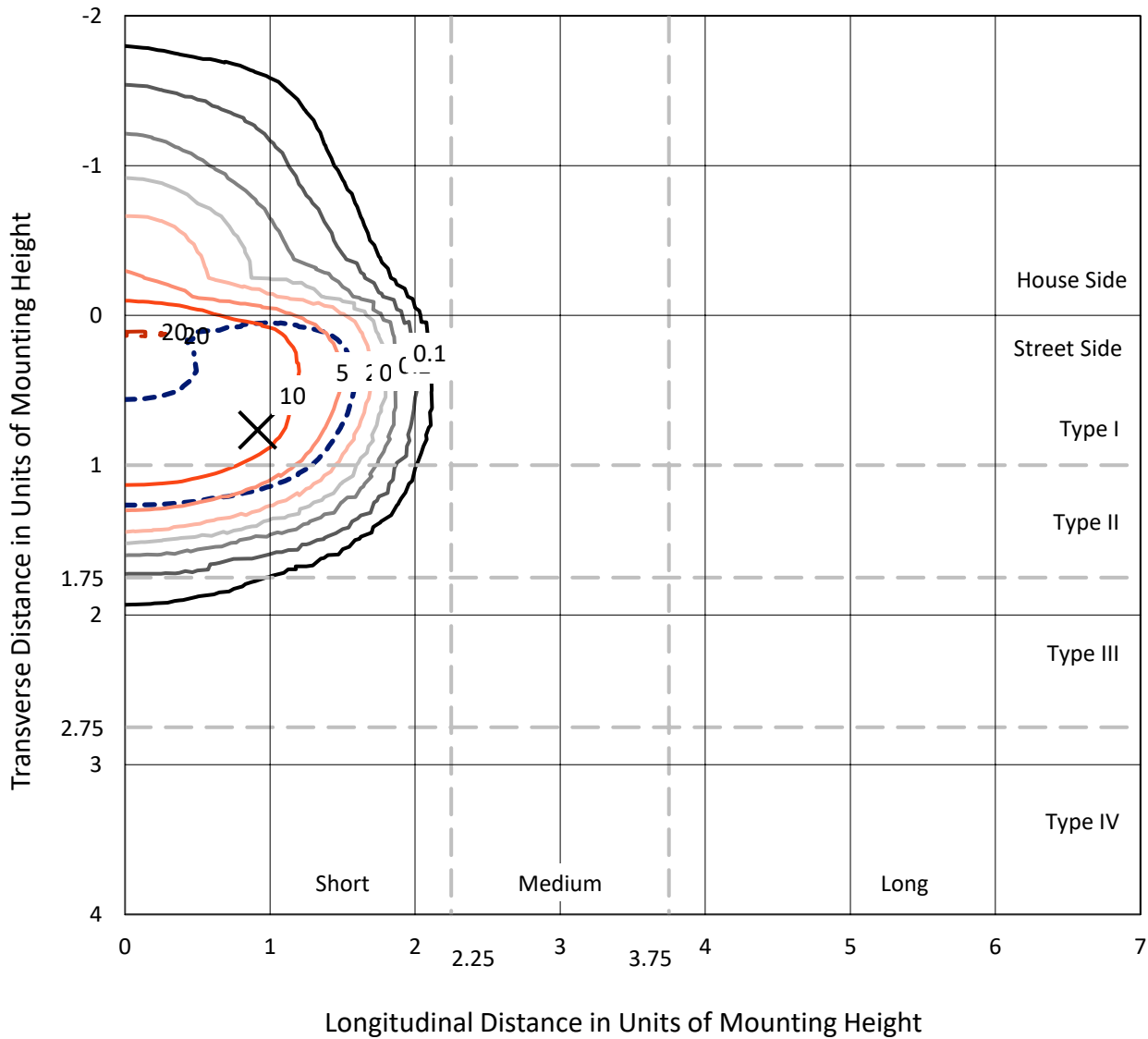
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

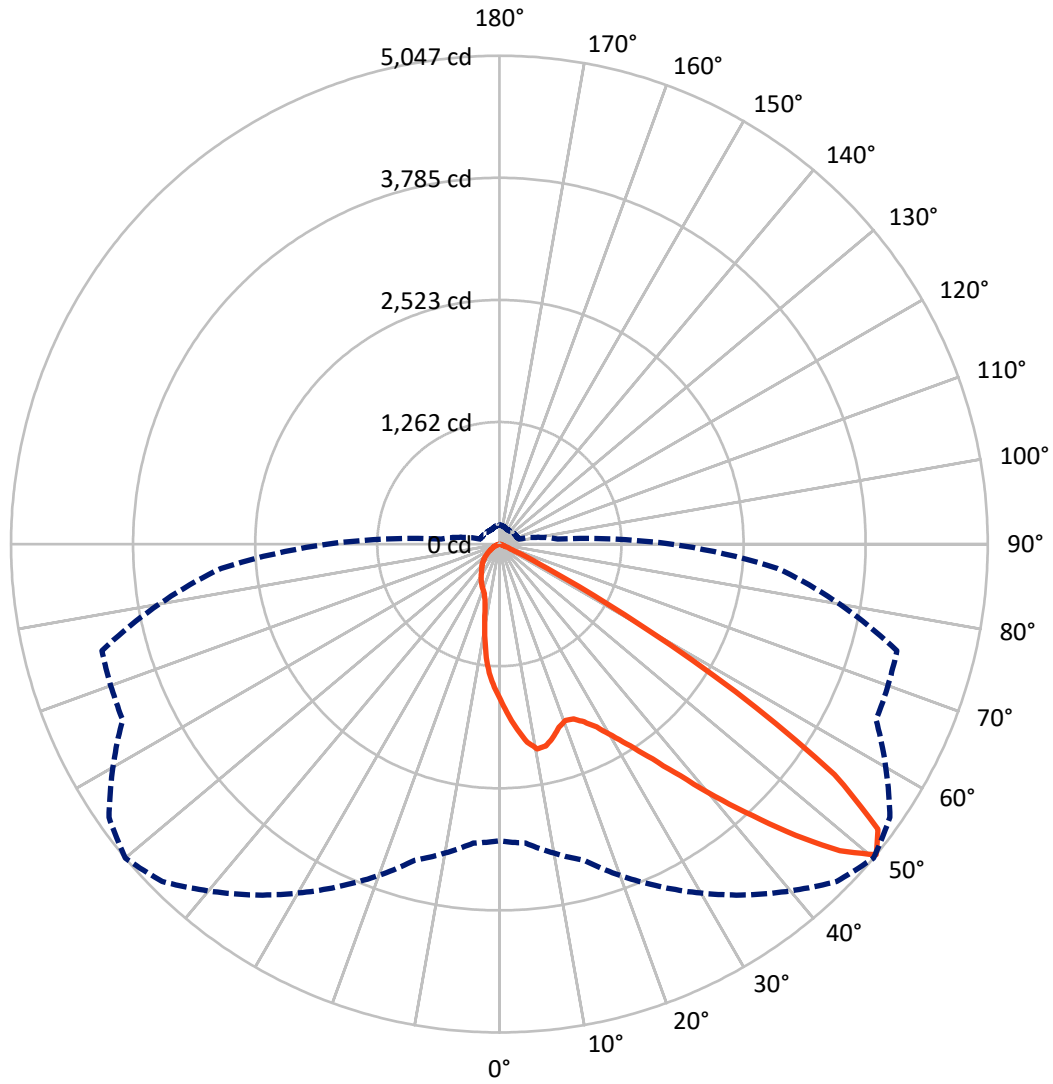
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 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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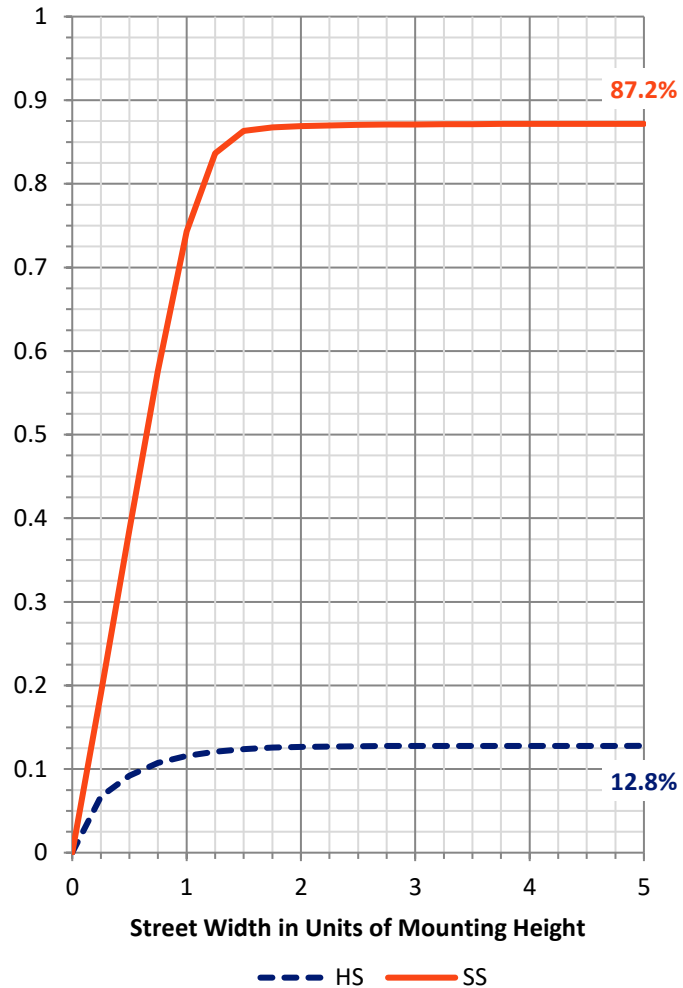
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.1	0.0	683.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4633.6	0.0	4633.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	5316.7	0.0	5316.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	2.8
10°-20°	385.5	7.3
20°-30°	636.2	12.0
30°-40°	1049.9	19.7
40°-50°	1661.2	31.2
50°-60°	1257.8	23.7
60°-70°	157.4	3.0
70°-80°	17.8	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°	5316.7	100.0
0°-180°	5316.7	100.0

Coefficient of Utilization

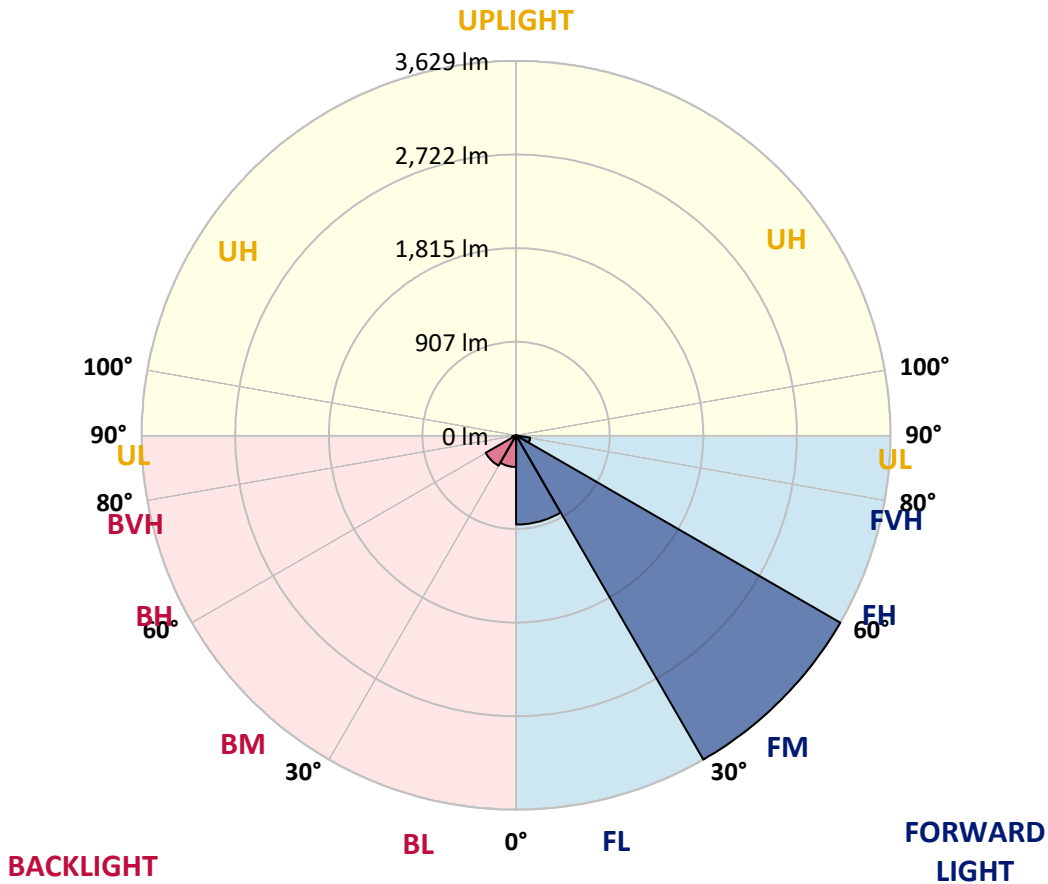


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.6	16.3			
FM (30°-60°)	3629.2	68.3			
FH (60°-80°)	139.2	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	306.6	5.8	B1/500		
BM (30°-60°)	339.7	6.4	B1/1000		
BH (60°-80°)	36.0	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°	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1835.4	1850.1	1846.1	1826.8	1806.1	1791.4	1768.6	1761.6	1709.9	1674.0	1636.1
5°	2057.1	2061.6	2056.6	2033.3	1996.9	1961.9	1924.5	1902.7	1816.2	1738.3	1658.8
7.5°	2110.2	2104.7	2114.3	2125.9	2120.8	2105.7	2066.2	2042.4	1939.2	1812.2	1691.7
10°	1944.2	1931.6	1967.5	2027.7	2091.0	2162.3	2152.2	2154.2	2059.1	1905.3	1734.7
12.5°	1724.1	1719.0	1745.9	1815.7	1939.7	2101.6	2140.6	2205.9	2168.9	2006.0	1783.8
15°	1627.4	1630.0	1646.2	1690.2	1779.3	1980.7	2074.3	2192.2	2267.1	2103.6	1838.0
17.5°	1642.1	1651.2	1650.7	1665.4	1719.5	1881.0	1990.3	2149.2	2343.0	2216.0	1900.2
20°	1741.8	1750.9	1737.3	1726.1	1744.3	1855.7	1946.3	2105.7	2394.1	2329.3	1966.0
22.5°	1891.1	1901.7	1869.3	1837.5	1825.8	1897.2	1963.0	2088.0	2433.1	2433.1	2024.7
25°	2071.8	2086.4	2036.3	1979.7	1947.3	1984.7	2034.3	2127.9	2473.1	2526.2	2064.7
27.5°	2273.7	2274.2	2231.2	2167.4	2106.7	2111.2	2141.1	2218.0	2517.1	2626.4	2096.0
30°	2500.9	2502.4	2445.2	2368.8	2292.4	2271.6	2296.9	2355.1	2608.7	2752.4	2139.6
32.5°	2794.4	2801.5	2719.5	2607.2	2508.0	2469.0	2483.7	2544.9	2754.4	2910.3	2204.8
35°	3191.1	3198.7	3077.8	2929.5	2771.6	2712.9	2727.6	2789.3	2965.4	3134.5	2309.1
37.5°	3582.8	3592.9	3470.5	3332.3	3115.7	3018.6	3033.8	3092.5	3282.2	3444.2	2476.1
40°	3853.6	3867.2	3829.3	3736.1	3535.2	3407.7	3425.9	3447.2	3630.9	3814.6	2692.7
42.5°	3996.3	4015.5	4031.7	4079.2	3973.5	3866.7	3835.8	3837.4	3985.6	4192.1	2917.9
45°	4004.9	4023.6	4106.6	4290.3	4370.7	4348.5	4292.3	4254.3	4256.4	4443.6	3058.6
47.5°	3726.5	3761.4	3916.8	4276.6	4579.2	4763.9	4735.6	4645.5	4370.2	4460.3	3043.4
50°	3067.2	3101.6	3383.9	3901.6	4427.4	4929.9	5046.8	4925.9	4295.8	4252.3	2887.0
52.5°	2227.6	2231.2	2414.4	3019.1	3812.1	4623.8	4899.0	4887.4	4182.5	4000.3	2673.4
55°	1058.1	1045.5	1251.5	1703.9	2636.5	3739.7	4203.7	4335.3	4021.6	3818.1	2508.0
57.5°	308.2	314.3	405.8	664.9	1318.8	2390.1	2878.9	3123.8	3300.9	3139.0	1945.2
60°	138.2	138.7	154.3	202.4	439.2	1111.8	1488.3	1791.4	1973.6	1828.9	965.0
62.5°	100.2	100.7	106.8	114.4	149.3	376.5	558.2	743.9	757.6	495.9	244.4
65°	83.5	83.5	84.5	84.5	89.6	134.6	169.5	218.6	184.2	136.6	95.6
67.5°	67.3	67.8	68.8	68.8	67.3	67.3	72.9	80.0	85.5	105.8	88.1
70°	52.6	52.1	52.1	52.6	51.1	43.5	47.1	53.6	58.7	82.5	76.4
72.5°	41.0	41.5	41.0	39.0	35.4	25.8	27.8	34.9	37.4	51.6	51.6
75°	30.9	31.4	29.4	22.3	14.7	8.1	10.6	17.2	21.8	25.3	18.7
77.5°	4.0	4.0	3.0	3.0	2.5	3.0	3.0	4.0	6.1	6.1	4.6
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°	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1613.3	1583.9	1548.5	1524.2	1489.8	1467.0	1434.6	1412.9	1394.2	1379.5	1387.6
5°	1613.8	1567.2	1494.9	1433.1	1365.8	1304.1	1237.8	1185.7	1138.6	1117.4	1129.0
7.5°	1623.9	1557.1	1446.3	1336.5	1207.4	1079.9	960.5	863.3	815.2	792.5	799.6
10°	1643.6	1552.6	1392.1	1210.0	1000.5	826.4	710.5	644.7	617.9	603.7	606.2
12.5°	1661.9	1549.5	1321.8	1043.5	789.4	641.2	580.9	571.8	577.4	577.9	577.4
15°	1686.7	1544.0	1234.8	872.4	631.5	554.1	555.6	568.8	582.0	586.0	585.0
17.5°	1713.0	1535.3	1122.4	708.5	535.9	528.8	546.5	564.2	577.4	579.4	579.9
20°	1740.3	1517.6	994.4	578.4	491.4	509.6	529.3	542.5	552.1	555.1	556.1
22.5°	1752.9	1480.2	846.6	485.3	461.5	485.8	500.5	517.7	520.7	509.6	511.6
25°	1746.4	1416.9	702.4	422.5	431.7	455.9	477.7	469.1	456.5	448.4	450.9
27.5°	1725.6	1332.9	561.2	376.5	399.8	430.6	433.2	423.6	421.5	415.0	417.0
30°	1703.4	1236.3	451.4	339.6	367.4	399.8	392.2	395.7	396.2	388.6	391.2
32.5°	1689.7	1135.1	359.3	314.8	346.6	352.7	367.9	375.0	375.5	357.8	360.8
35°	1694.2	1035.4	304.1	294.5	327.4	325.9	347.1	351.2	321.8	297.6	300.1
37.5°	1731.2	943.3	272.8	278.8	294.0	305.7	321.8	295.0	288.4	277.3	278.8
40°	1800.0	864.8	254.0	269.2	271.2	290.0	265.2	268.7	269.2	262.1	263.7
42.5°	1880.5	799.6	242.9	263.7	258.6	261.6	236.8	243.9	251.5	248.5	249.0
45°	1921.0	735.8	233.3	244.4	245.9	217.1	211.5	219.1	228.7	230.3	230.8
47.5°	1885.0	675.1	223.2	216.6	226.7	197.9	191.3	193.8	204.9	211.0	212.0
50°	1775.2	605.2	208.0	191.8	186.2	177.6	171.6	172.1	184.7	195.3	197.4
52.5°	1620.9	532.4	183.2	162.4	149.8	156.4	157.9	154.9	166.5	177.1	179.1
55°	1471.1	441.3	145.2	132.1	120.4	134.6	138.7	134.6	138.2	145.2	145.7
57.5°	1035.9	249.5	111.3	109.3	99.7	115.4	122.0	115.9	109.8	114.4	115.4
60°	480.2	130.6	85.5	85.5	83.0	99.2	110.3	101.7	90.1	92.1	93.6
62.5°	150.3	82.5	62.7	59.2	67.8	84.5	93.6	85.0	71.4	71.4	73.4
65°	85.0	70.8	49.6	45.5	55.2	67.8	73.4	64.3	52.1	51.1	51.1
67.5°	78.9	67.3	44.0	36.9	39.0	43.5	45.5	39.5	35.9	35.4	35.9
70°	65.3	56.2	35.4	25.3	23.8	23.3	24.3	22.8	21.8	22.3	23.8
72.5°	40.5	33.9	22.3	15.2	13.2	12.7	12.7	12.7	12.1	12.1	12.1
75°	14.7	12.7	10.1	7.6	6.6	6.1	6.1	6.6	6.1	5.6	5.1
77.5°	4.6	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)