

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: P631807

Luminaire Tested: GWS-SA2B-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631807
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5197.6 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

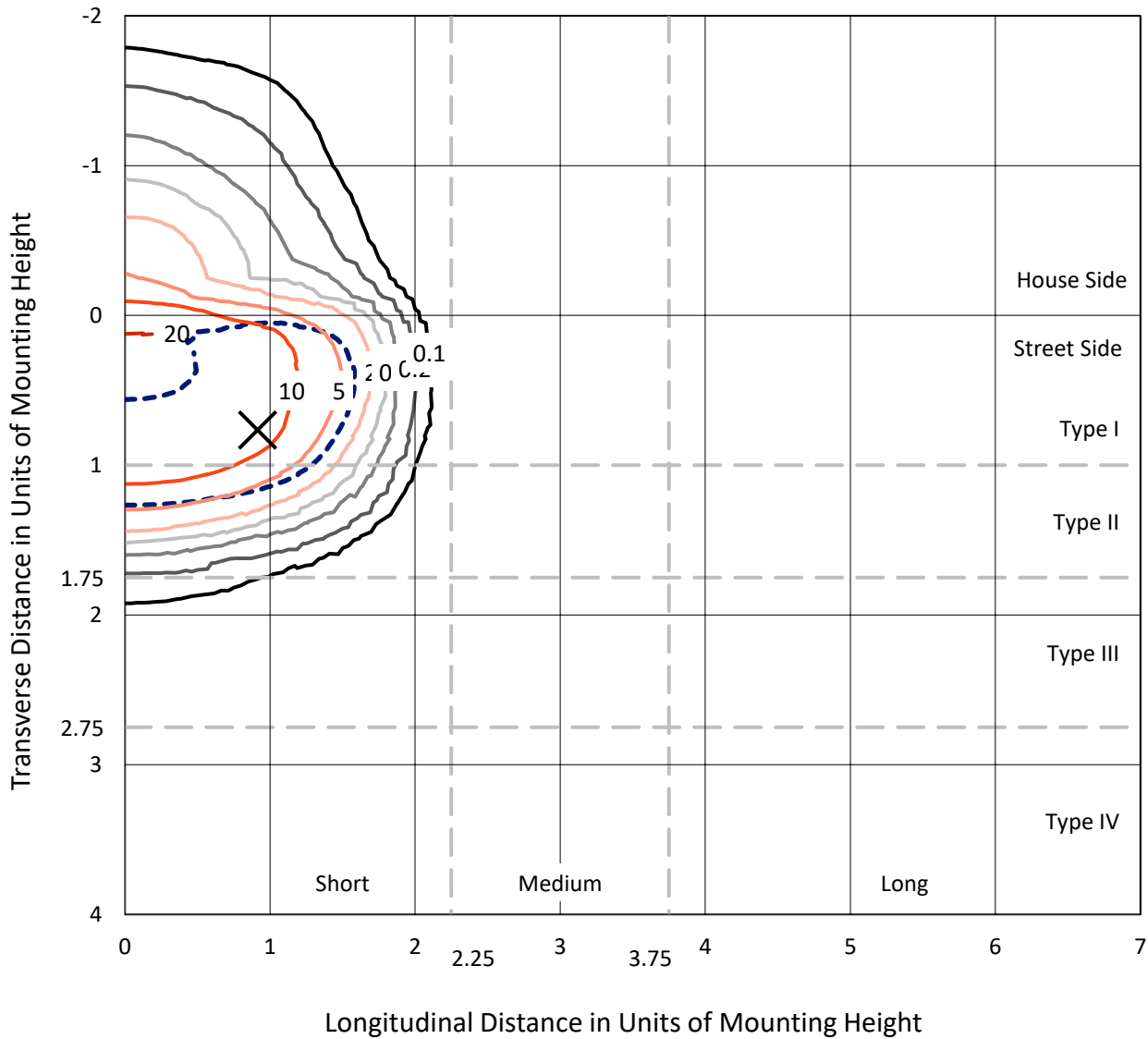
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

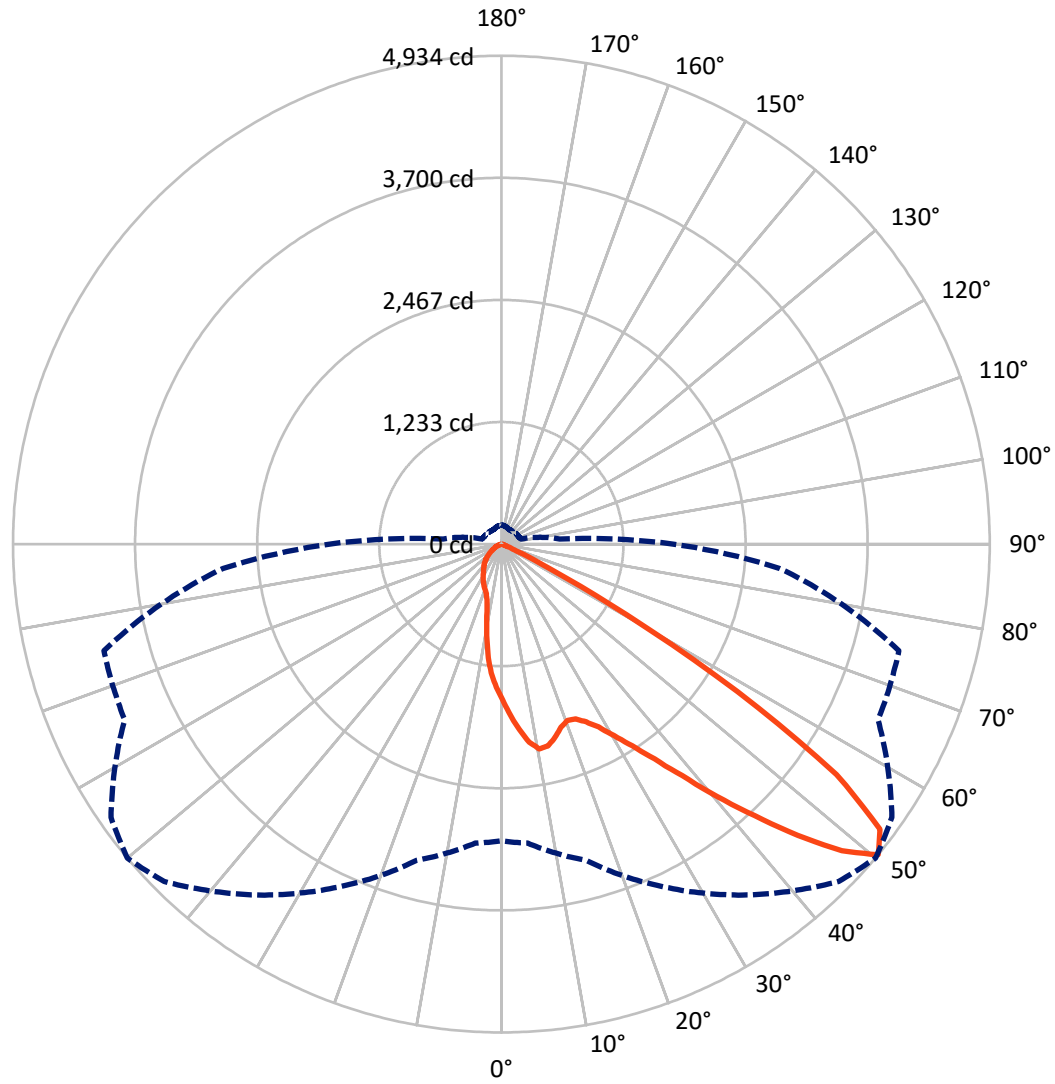
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 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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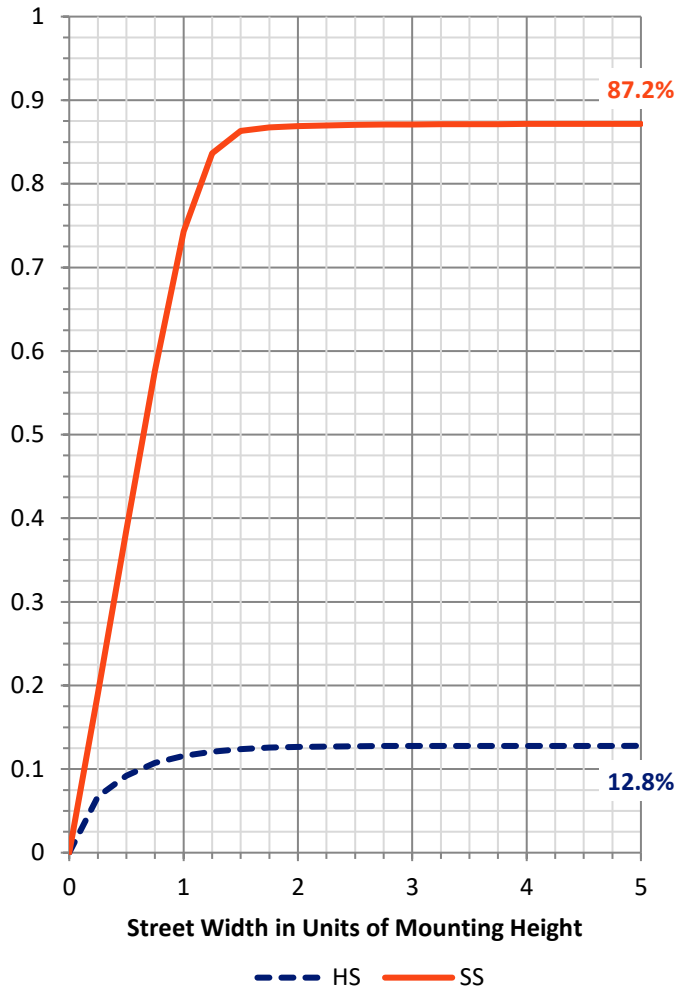
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.8	0.0	667.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4529.8	0.0	4529.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	5197.6	0.0	5197.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	2.8
10°-20°	376.9	7.3
20°-30°	622.0	12.0
30°-40°	1026.4	19.7
40°-50°	1624.0	31.2
50°-60°	1229.6	23.7
60°-70°	153.9	3.0
70°-80°	17.4	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°	5197.6	100.0
0°-180°	5197.6	100.0

Coefficient of Utilization



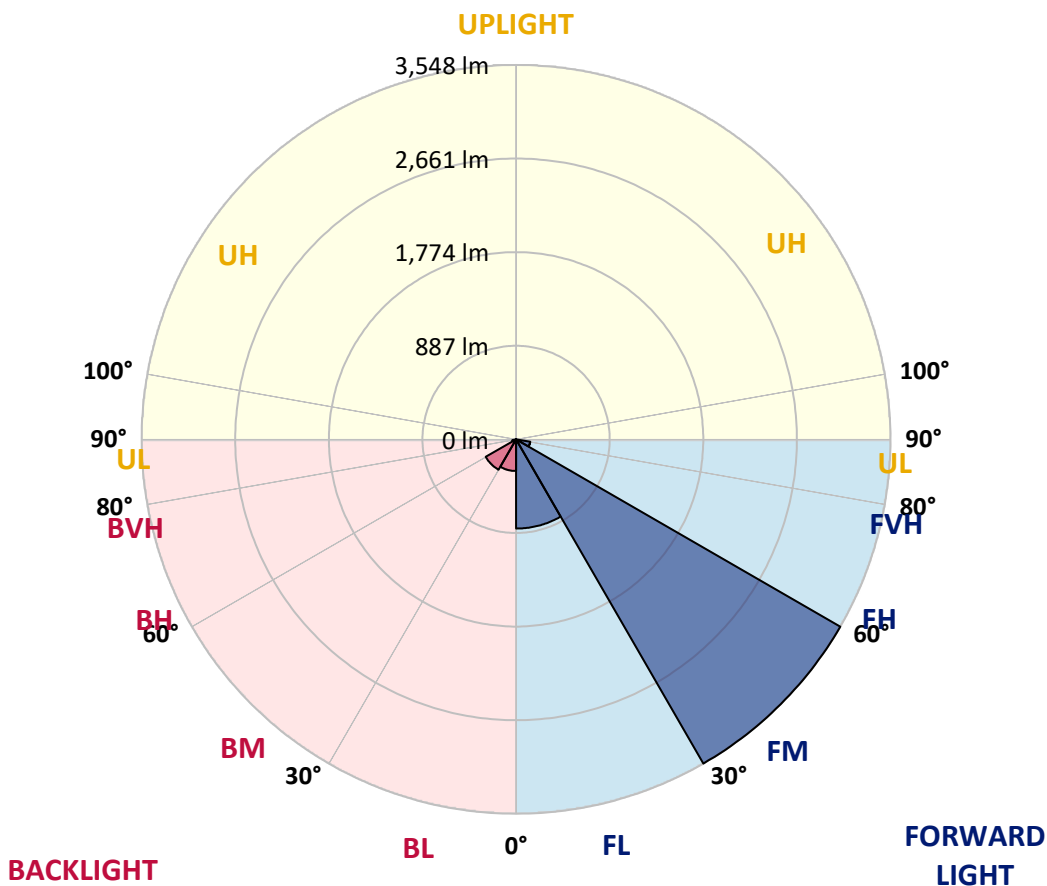
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.2	16.3			
FM (30°-60°)	3547.9	68.3			
FH (60°-80°)	136.1	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	299.7	5.8	B1/500		
BM (30°-60°)	332.1	6.4	B1/1000		
BH (60°-80°)	35.2	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°	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7
2.5°	1794.3	1808.7	1804.7	1785.9	1765.6	1751.3	1729.0	1722.1	1671.6	1636.5	1599.4
5°	2011.0	2015.5	2010.5	1987.8	1952.1	1918.0	1881.4	1860.1	1775.5	1699.3	1621.7
7.5°	2062.9	2057.5	2066.9	2078.3	2073.3	2058.5	2019.9	1996.7	1895.7	1771.6	1653.8
10°	1900.7	1888.3	1923.4	1982.3	2044.1	2113.9	2104.0	2106.0	2013.0	1862.6	1695.9
12.5°	1685.5	1680.5	1706.8	1775.0	1896.2	2054.5	2092.6	2156.4	2120.3	1961.0	1743.9
15°	1591.0	1593.5	1609.3	1652.3	1739.4	1936.3	2027.8	2143.1	2216.3	2056.5	1796.8
17.5°	1605.3	1614.2	1613.7	1628.1	1681.0	1838.8	1945.7	2101.0	2290.5	2166.3	1857.6
20°	1702.8	1711.7	1698.3	1687.5	1705.3	1814.1	1902.7	2058.5	2340.5	2277.2	1922.0
22.5°	1848.7	1859.1	1827.5	1796.3	1784.9	1854.7	1919.0	2041.2	2378.6	2378.6	1979.3
25°	2025.3	2039.7	1990.7	1935.3	1903.6	1940.3	1988.7	2080.3	2417.7	2469.6	2018.4
27.5°	2222.7	2223.2	2181.2	2118.8	2059.5	2063.9	2093.1	2168.3	2460.7	2567.6	2049.1
30°	2444.9	2446.3	2390.4	2315.7	2241.0	2220.8	2245.5	2302.4	2550.2	2690.7	2091.6
32.5°	2731.8	2738.7	2658.6	2548.8	2451.8	2413.7	2428.0	2487.9	2692.7	2845.1	2155.5
35°	3119.6	3127.1	3008.8	2863.9	2709.5	2652.1	2666.5	2726.8	2899.0	3064.2	2257.4
37.5°	3502.6	3512.5	3392.7	3257.7	3045.9	2951.0	2965.8	3023.2	3208.7	3367.0	2420.6
40°	3767.2	3780.6	3743.5	3652.5	3456.1	3331.4	3349.2	3370.0	3549.6	3729.1	2632.4
42.5°	3906.7	3925.5	3941.4	3987.9	3884.5	3780.1	3749.9	3751.4	3896.3	4098.2	2852.5
45°	3915.1	3933.4	4014.6	4194.2	4272.8	4251.1	4196.1	4159.0	4161.0	4344.1	2990.0
47.5°	3643.1	3677.2	3829.1	4180.8	4476.6	4657.2	4629.5	4541.5	4272.3	4360.4	2975.2
50°	2998.4	3032.1	3308.1	3814.2	4328.2	4819.5	4933.8	4815.5	4199.6	4157.1	2822.3
52.5°	2177.7	2181.2	2360.3	2951.4	3726.7	4520.2	4789.3	4777.9	4088.8	3910.7	2613.6
55°	1034.4	1022.1	1223.4	1665.7	2577.4	3655.9	4109.6	4238.2	3931.5	3732.6	2451.8
57.5°	301.3	307.2	396.8	650.1	1289.2	2336.5	2814.4	3053.9	3227.0	3068.7	1901.7
60°	135.1	135.6	150.9	197.9	429.4	1086.9	1454.9	1751.3	1929.4	1787.9	943.4
62.5°	98.0	98.4	104.4	111.8	145.9	368.1	545.7	727.2	740.6	484.8	238.9
65°	81.6	81.6	82.6	82.6	87.6	131.6	165.7	213.7	180.1	133.6	93.5
67.5°	65.8	66.3	67.3	67.3	65.8	65.8	71.2	78.2	83.6	103.4	86.1
70°	51.4	51.0	51.0	51.4	50.0	42.5	46.0	52.4	57.4	80.6	74.7
72.5°	40.1	40.6	40.1	38.1	34.6	25.2	27.2	34.1	36.6	50.5	50.5
75°	30.2	30.7	28.7	21.8	14.3	7.9	10.4	16.8	21.3	24.7	18.3
77.5°	4.0	4.0	3.0	3.0	2.5	3.0	3.0	4.0	5.9	5.9	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°	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7	1574.7
2.5°	1577.1	1548.4	1513.8	1490.1	1456.4	1434.2	1402.5	1381.2	1362.9	1348.6	1356.5
5°	1577.6	1532.1	1461.4	1401.0	1335.2	1274.9	1210.1	1159.1	1113.1	1092.3	1103.7
7.5°	1587.5	1522.2	1413.9	1306.5	1180.4	1055.7	939.0	844.0	797.0	774.7	781.6
10°	1606.8	1517.8	1361.0	1182.9	978.0	807.9	694.6	630.3	604.0	590.2	592.7
12.5°	1624.6	1514.8	1292.2	1020.1	771.7	626.8	567.9	559.0	564.5	565.0	564.5
15°	1648.9	1509.4	1207.1	852.9	617.4	541.7	543.2	556.1	568.9	572.9	571.9
17.5°	1674.6	1501.0	1097.3	692.6	523.9	517.0	534.3	551.6	564.5	566.4	566.9
20°	1701.3	1483.6	972.1	565.5	480.4	498.2	517.5	530.3	539.7	542.7	543.7
22.5°	1713.7	1447.0	827.7	474.4	451.2	474.9	489.3	506.1	509.1	498.2	500.2
25°	1707.2	1385.2	686.7	413.1	422.0	445.7	467.0	458.6	446.2	438.3	440.8
27.5°	1687.0	1303.1	548.6	368.1	390.8	421.0	423.5	414.1	412.1	405.7	407.6
30°	1665.2	1208.6	441.3	332.0	359.2	390.8	383.4	386.9	387.4	379.9	382.4
32.5°	1651.8	1109.6	351.2	307.7	338.9	344.8	359.7	366.6	367.1	349.8	352.7
35°	1656.3	1012.2	297.3	287.9	320.1	318.6	339.4	343.3	314.6	290.9	293.4
37.5°	1692.4	922.1	266.6	272.6	287.4	298.8	314.6	288.4	282.0	271.1	272.6
40°	1759.7	845.5	248.3	263.2	265.2	283.5	259.2	262.7	263.2	256.3	257.7
42.5°	1838.3	781.6	237.5	257.7	252.8	255.8	231.5	238.5	245.9	242.9	243.4
45°	1877.9	719.3	228.1	238.9	240.4	212.2	206.8	214.2	223.6	225.1	225.6
47.5°	1842.8	659.9	218.2	211.7	221.6	193.4	187.0	189.5	200.4	206.3	207.3
50°	1735.4	591.7	203.3	187.5	182.1	173.6	167.7	168.2	180.6	191.0	192.9
52.5°	1584.6	520.4	179.1	158.8	146.4	152.9	154.3	151.4	162.8	173.1	175.1
55°	1438.1	431.4	142.0	129.1	117.7	131.6	135.6	131.6	135.1	142.0	142.5
57.5°	1012.7	243.9	108.8	106.9	97.5	112.8	119.2	113.3	107.4	111.8	112.8
60°	469.5	127.6	83.6	83.6	81.1	97.0	107.8	99.4	88.1	90.0	91.5
62.5°	146.9	80.6	61.3	57.9	66.3	82.6	91.5	83.1	69.8	69.8	71.7
65°	83.1	69.3	48.5	44.5	53.9	66.3	71.7	62.8	51.0	50.0	50.0
67.5°	77.2	65.8	43.0	36.1	38.1	42.5	44.5	38.6	35.1	34.6	35.1
70°	63.8	54.9	34.6	24.7	23.3	22.8	23.7	22.3	21.3	21.8	23.3
72.5°	39.6	33.1	21.8	14.8	12.9	12.4	12.4	12.4	11.9	11.9	11.9
75°	14.3	12.4	9.9	7.4	6.4	5.9	5.9	6.4	5.9	5.4	4.9
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)