

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: P634502

Luminaire Tested: GWS-SA3B-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634502
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-SA3B-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6223.1 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

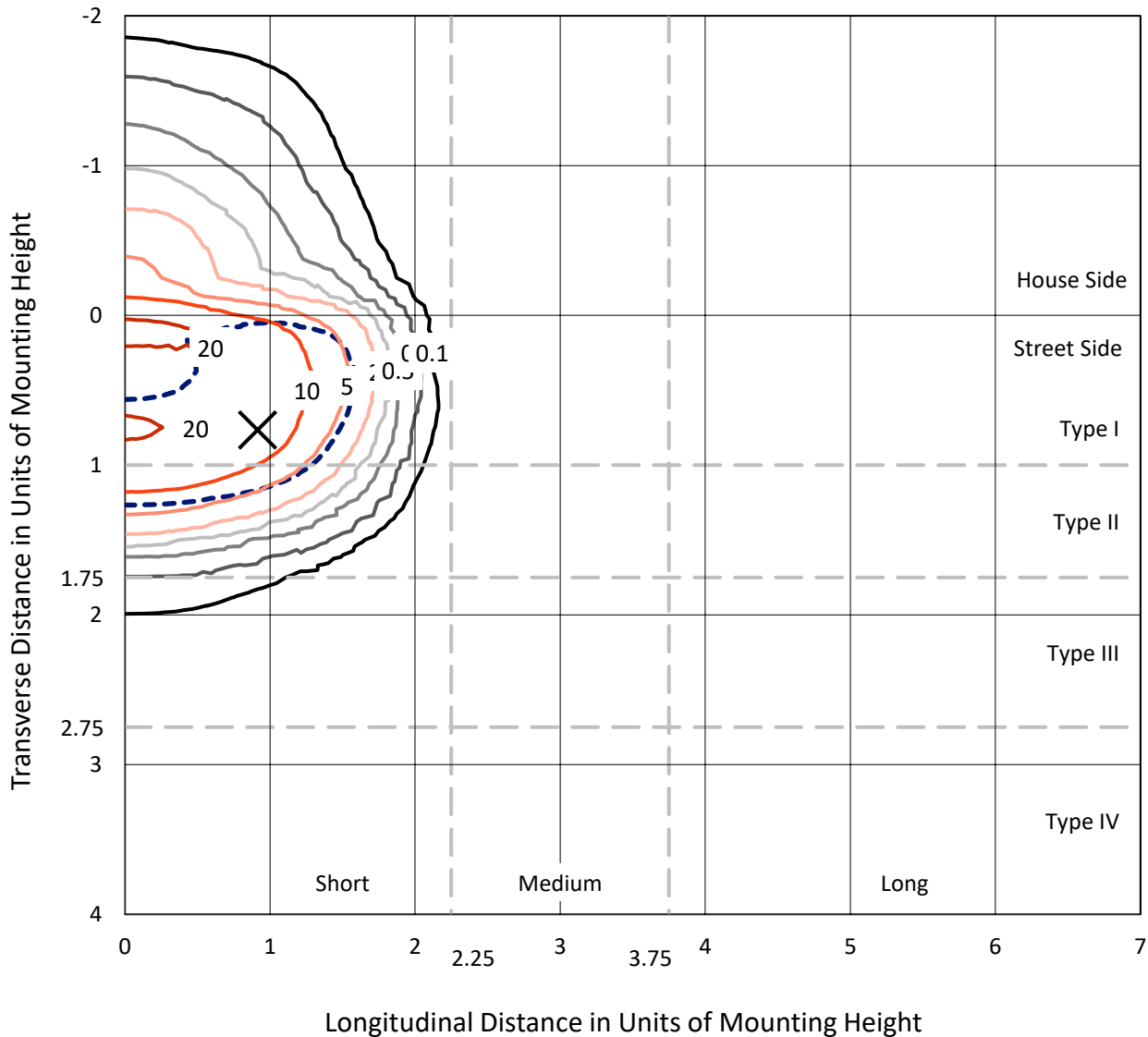
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

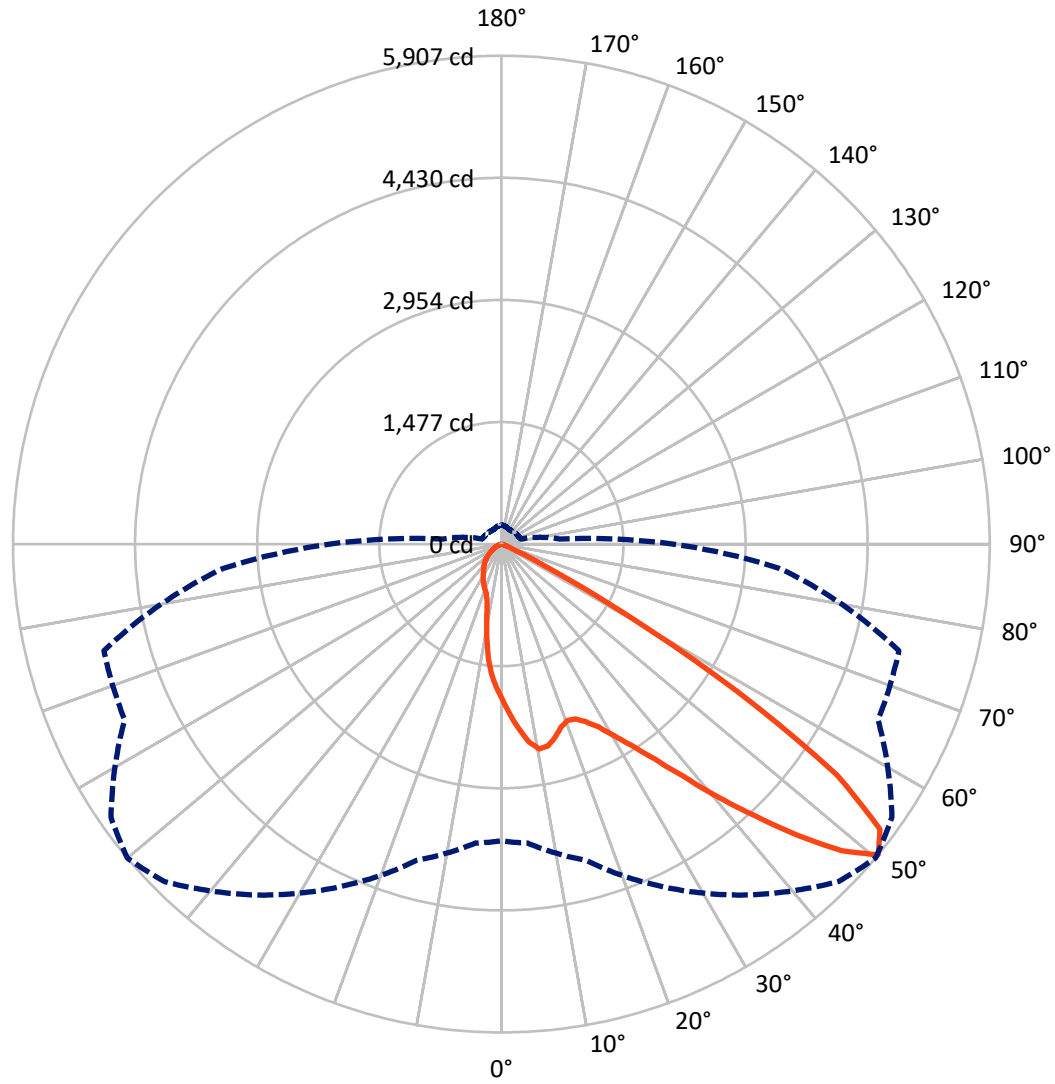
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.2 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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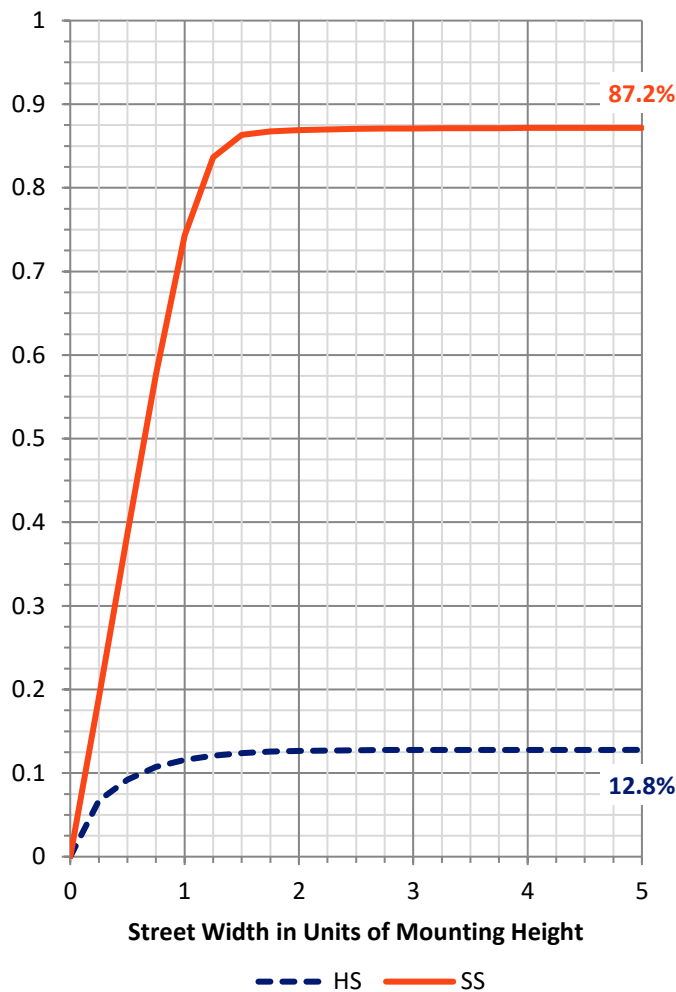
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.6	0.0	799.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5423.5	0.0	5423.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	6223.1	0.0	6223.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	2.8
10°-20°	451.2	7.3
20°-30°	744.7	12.0
30°-40°	1228.9	19.7
40°-50°	1944.5	31.2
50°-60°	1472.2	23.7
60°-70°	184.2	3.0
70°-80°	20.8	0.3
80°-90°	1.6	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°	6223.1	100.0
0°-180°	6223.1	100.0

Coefficient of Utilization



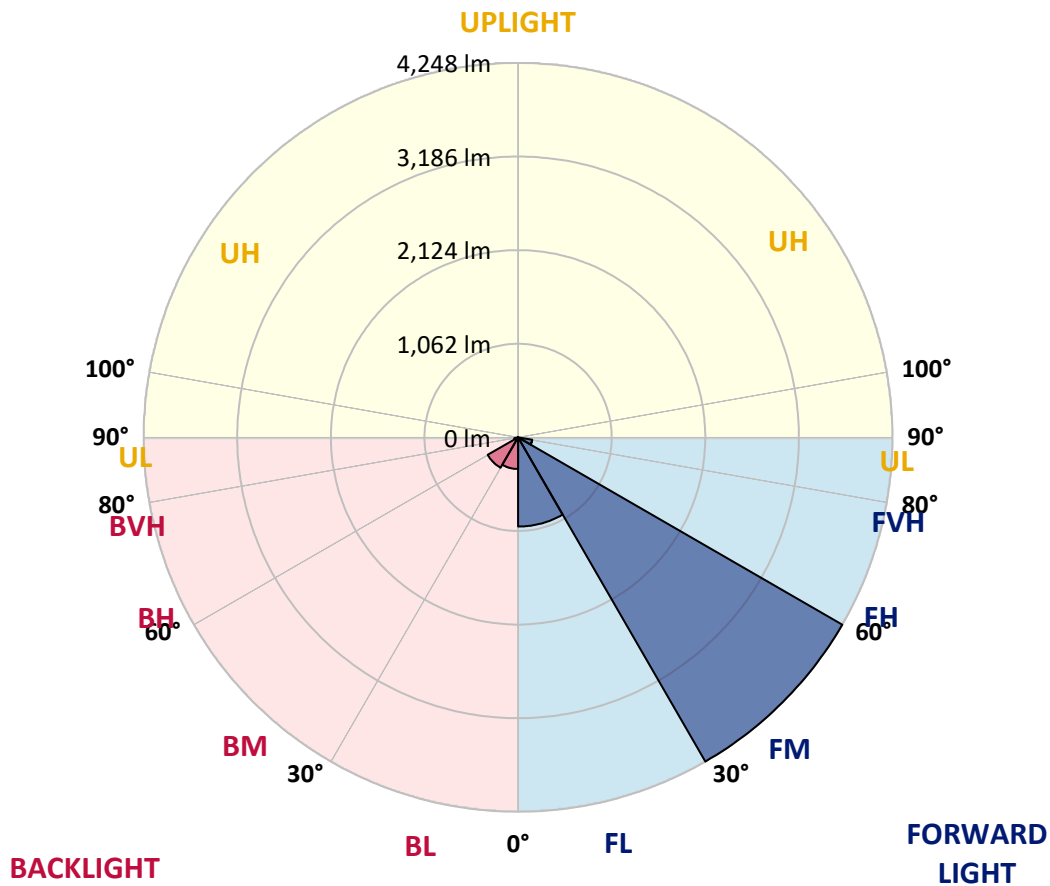
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.0	16.3			
FM (30°-60°)	4247.9	68.3			
FH (60°-80°)	162.9	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	358.9	5.8	B1/500		
BM (30°-60°)	397.6	6.4	B1/1000		
BH (60°-80°)	42.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	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°	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	2148.3	2165.5	2160.8	2138.3	2114.0	2096.8	2070.2	2061.9	2001.4	1959.4	1915.0
5°	2407.8	2413.1	2407.2	2379.9	2337.3	2296.4	2252.6	2227.1	2125.8	2034.6	1941.6
7.5°	2470.0	2463.5	2474.7	2488.3	2482.4	2464.6	2418.4	2390.6	2269.8	2121.1	1980.1
10°	2275.7	2260.9	2302.9	2373.4	2447.5	2531.0	2519.1	2521.5	2410.1	2230.1	2030.5
12.5°	2018.0	2012.1	2043.5	2125.2	2270.4	2459.9	2505.5	2581.9	2538.7	2348.0	2087.9
15°	1904.9	1907.9	1926.8	1978.3	2082.6	2318.3	2427.9	2565.9	2653.6	2462.3	2151.3
17.5°	1922.1	1932.7	1932.1	1949.3	2012.7	2201.7	2329.6	2515.6	2742.4	2593.8	2224.2
20°	2038.8	2049.4	2033.4	2020.4	2041.7	2172.0	2278.1	2464.6	2802.3	2726.4	2301.2
22.5°	2213.5	2225.9	2188.0	2150.7	2137.1	2220.6	2297.6	2443.9	2847.9	2847.9	2369.9
25°	2425.0	2442.1	2383.5	2317.2	2279.2	2323.1	2381.1	2490.7	2894.7	2956.9	2416.7
27.5°	2661.3	2661.9	2611.5	2536.9	2465.8	2471.2	2506.1	2596.1	2946.2	3074.1	2453.4
30°	2927.2	2929.0	2862.1	2772.6	2683.2	2658.9	2688.5	2756.7	3053.4	3221.6	2504.3
32.5°	3270.8	3279.1	3183.1	3051.6	2935.5	2889.9	2907.1	2978.8	3224.0	3406.4	2580.7
35°	3735.2	3744.0	3602.5	3428.9	3244.1	3175.4	3192.6	3264.9	3471.0	3668.8	2702.8
37.5°	4193.6	4205.5	4062.1	3900.4	3646.9	3533.2	3551.0	3619.7	3841.8	4031.3	2898.2
40°	4510.5	4526.5	4482.1	4373.1	4137.9	3988.7	4010.0	4034.9	4249.9	4464.9	3151.7
42.5°	4677.5	4700.1	4719.0	4774.7	4650.9	4525.9	4489.8	4491.6	4665.1	4906.8	3415.3
45°	4687.6	4709.5	4806.7	5021.7	5115.9	5089.8	5024.1	4979.6	4982.0	5201.2	3580.0
47.5°	4361.8	4402.7	4584.6	5005.7	5359.9	5576.1	5542.9	5437.5	5115.3	5220.7	3562.2
50°	3590.0	3630.3	3960.8	4566.8	5182.2	5770.4	5907.2	5765.6	5028.2	4977.3	3379.2
52.5°	2607.4	2611.5	2826.0	3533.8	4461.9	5412.0	5734.2	5720.6	4895.5	4682.3	3129.2
55°	1238.5	1223.7	1464.8	1994.3	3086.0	4377.2	4920.4	5074.4	4707.2	4469.0	2935.5
57.5°	360.7	367.8	475.0	778.3	1543.6	2797.5	3369.7	3656.4	3863.7	3674.2	2276.9
60°	161.7	162.3	180.7	236.9	514.1	1301.3	1742.0	2096.8	2310.0	2140.6	1129.6
62.5°	117.3	117.9	125.0	133.9	174.7	440.7	653.3	870.7	886.7	580.5	286.1
65°	97.7	97.7	98.9	98.9	104.8	157.6	198.4	255.9	215.6	159.9	111.9
67.5°	78.8	79.4	80.6	80.6	78.8	78.8	85.3	93.6	100.1	123.8	103.1
70°	61.6	61.0	61.0	61.6	59.8	50.9	55.1	62.8	68.7	96.5	89.4
72.5°	48.0	48.6	48.0	45.6	41.5	30.2	32.6	40.9	43.8	60.4	60.4
75°	36.1	36.7	34.4	26.1	17.2	9.5	12.4	20.1	25.5	29.6	21.9
77.5°	4.7	4.7	3.6	3.6	3.0	3.6	3.6	4.7	7.1	7.1	5.3
80°	0.6	0.6	0.6	1.2	1.8	2.4	2.4	2.4	2.4	3.0	3.0
82.5°	0.6	0.6	0.6	0.6	1.8	1.8	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.4	2.4	2.4
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°	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	1888.3	1854.0	1812.5	1784.1	1743.8	1717.1	1679.2	1653.8	1631.8	1614.7	1624.1
5°	1888.9	1834.4	1749.7	1677.4	1598.7	1526.4	1448.8	1387.8	1332.7	1307.8	1321.5
7.5°	1900.8	1822.6	1692.8	1564.3	1413.3	1264.0	1124.2	1010.5	954.2	927.6	935.9
10°	1923.9	1817.2	1629.5	1416.2	1171.0	967.3	831.6	754.6	723.2	706.6	709.6
12.5°	1945.2	1813.7	1547.1	1221.4	924.0	750.5	680.0	669.3	675.8	676.4	675.8
15°	1974.2	1807.2	1445.3	1021.2	739.2	648.6	650.4	665.8	681.2	685.9	684.7
17.5°	2005.0	1797.1	1313.8	829.2	627.3	619.0	639.7	660.4	675.8	678.2	678.8
20°	2037.0	1776.4	1163.9	677.0	575.1	596.5	619.6	635.0	646.2	649.8	651.0
22.5°	2051.8	1732.5	990.9	568.0	540.2	568.6	585.8	605.9	609.5	596.5	598.8
25°	2044.1	1658.5	822.1	494.6	505.2	533.7	559.1	549.1	534.3	524.8	527.8
27.5°	2019.8	1560.2	656.9	440.7	467.9	504.1	507.0	495.8	493.4	485.7	488.1
30°	1993.7	1447.0	528.3	397.4	430.0	467.9	459.0	463.2	463.8	454.9	457.9
32.5°	1977.8	1328.6	420.5	368.4	405.7	412.8	430.6	438.9	439.5	418.8	422.3
35°	1983.1	1211.9	356.0	344.7	383.2	381.5	406.3	411.1	376.7	348.3	351.2
37.5°	2026.3	1104.1	319.3	326.4	344.1	357.8	376.7	345.3	337.6	324.6	326.4
40°	2106.9	1012.3	297.3	315.1	317.5	339.4	310.4	314.5	315.1	306.8	308.6
42.5°	2201.1	935.9	284.3	308.6	302.7	306.2	277.2	285.5	294.4	290.8	291.4
45°	2248.4	861.2	273.1	286.1	287.9	254.1	247.6	256.5	267.7	269.5	270.1
47.5°	2206.4	790.2	261.2	253.5	265.4	231.6	223.9	226.9	239.9	247.0	248.2
50°	2077.9	708.4	243.4	224.5	218.0	207.9	200.8	201.4	216.2	228.6	231.0
52.5°	1897.2	623.1	214.4	190.1	175.3	183.0	184.8	181.2	194.9	207.3	209.7
55°	1721.9	516.5	170.0	154.6	141.0	157.6	162.3	157.6	161.7	170.0	170.6
57.5°	1212.5	292.0	130.3	127.9	116.7	135.0	142.7	135.6	128.5	133.9	135.0
60°	562.1	152.8	100.1	100.1	97.1	116.1	129.1	119.1	105.4	107.8	109.6
62.5°	175.9	96.5	73.4	69.3	79.4	98.9	109.6	99.5	83.5	83.5	85.9
65°	99.5	82.9	58.0	53.3	64.6	79.4	85.9	75.2	61.0	59.8	59.8
67.5°	92.4	78.8	51.5	43.2	45.6	50.9	53.3	46.2	42.1	41.5	42.1
70°	76.4	65.7	41.5	29.6	27.8	27.2	28.4	26.7	25.5	26.1	27.8
72.5°	47.4	39.7	26.1	17.8	15.4	14.8	14.8	14.8	14.2	14.2	14.2
75°	17.2	14.8	11.8	8.9	7.7	7.1	7.1	7.7	7.1	6.5	5.9
77.5°	5.3	4.7	4.7	4.7	4.1	3.6	3.0	3.0	2.4	1.8	1.8
80°	3.0	3.0	3.0	3.0	2.4	2.4	1.8	1.2	0.6	0.6	0.0
82.5°	3.0	3.0	3.0	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
85°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	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)