

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647269

Luminaire Tested: **GALN-SA2D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7109.6 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

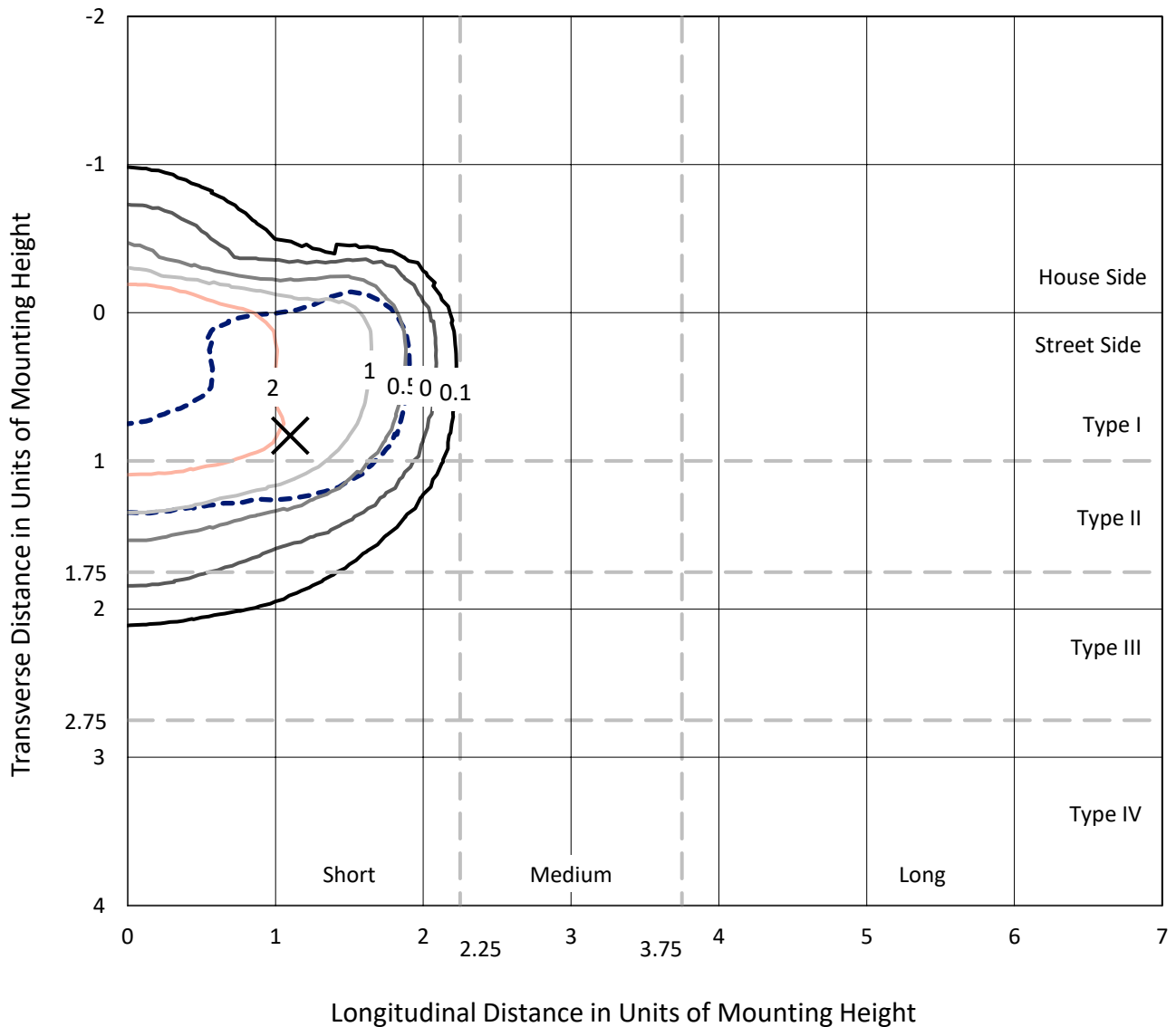
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

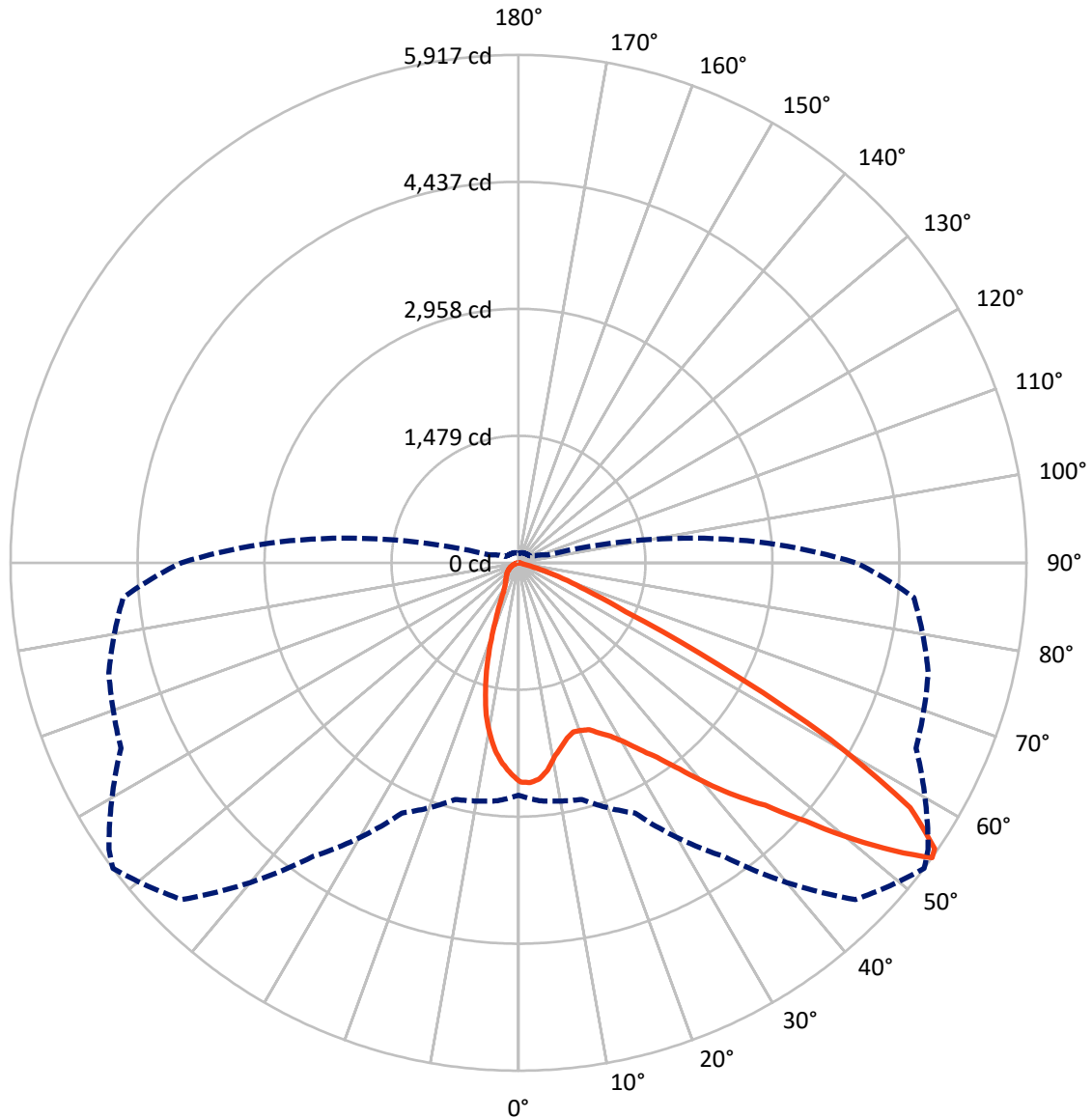
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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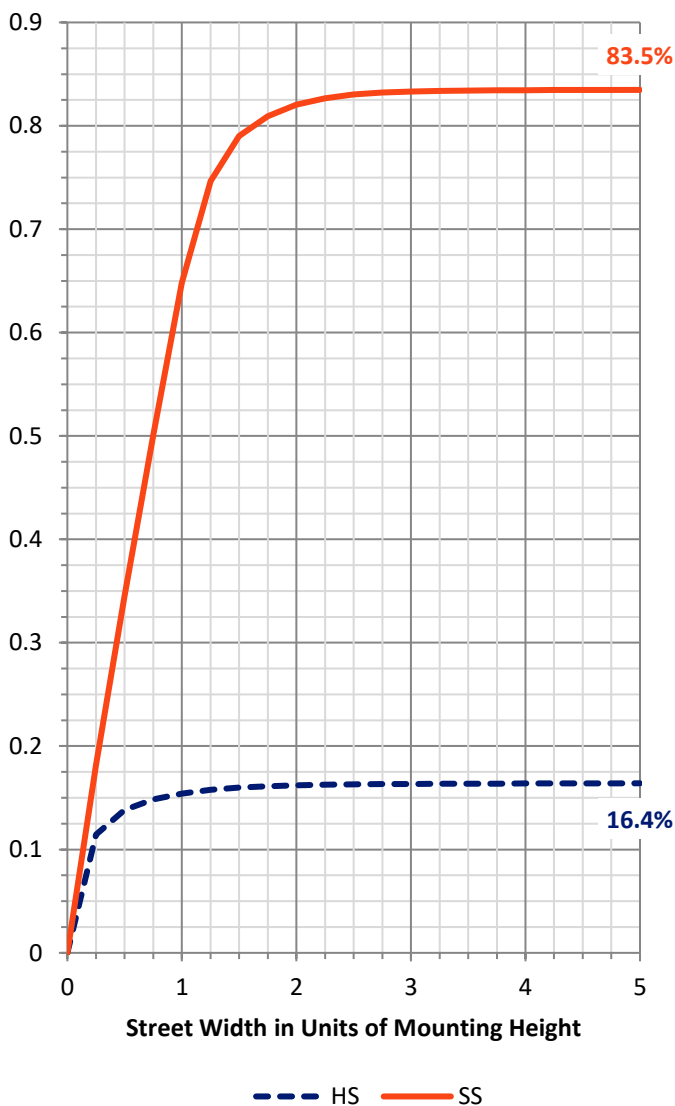
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.3	0.0	1176.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5933.3	0.0	5933.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	7109.6	0.0	7109.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	3.1
10°-20°	502.3	7.1
20°-30°	713.9	10.0
30°-40°	1101.7	15.5
40°-50°	1727.4	24.3
50°-60°	2006.7	28.2
60°-70°	758.2	10.7
70°-80°	72.1	1.0
80°-90°	8.1	0.1
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°	7109.6	100.0
0°-180°	7109.6	100.0

Coefficient of Utilization

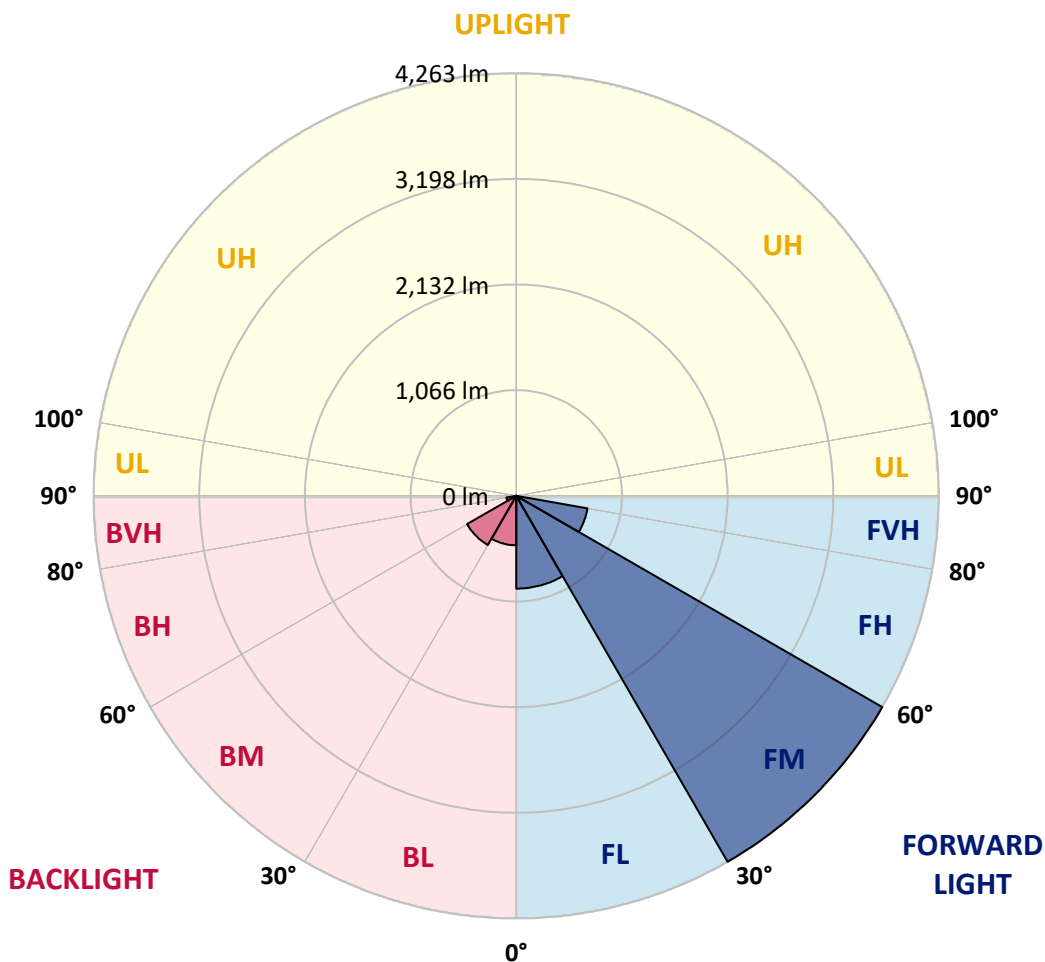


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.2	13.2			
FM (30°-60°)	4263.4	60.0			
FH (60°-80°)	729.6	10.3			G1/1800
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	499.2	7.0	B1/500		
BM (30°-60°)	572.4	8.1	B1/1000		
BH (60°-80°)	100.8	1.4	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7
2.5°	2540.4	2517.9	2540.4	2543.1	2558.9	2573.6	2564.2	2585.5	2573.6	2560.3	2556.3
5°	2335.1	2365.6	2366.9	2414.6	2404.0	2491.4	2529.8	2519.2	2584.1	2580.1	2570.9
7.5°	2151.0	2139.1	2155.0	2210.6	2280.8	2381.5	2437.1	2435.8	2528.5	2594.7	2588.1
10°	1980.1	1978.8	2011.9	2055.6	2115.3	2221.2	2298.0	2336.5	2480.8	2581.5	2596.0
12.5°	1864.9	1859.6	1895.4	1931.1	2025.2	2107.3	2205.3	2223.9	2389.4	2535.1	2558.9
15°	1789.4	1801.4	1804.0	1872.9	1932.4	2041.0	2117.9	2156.3	2347.0	2498.0	2589.5
17.5°	1776.2	1792.1	1793.4	1850.3	1913.9	2005.3	2072.8	2124.5	2311.3	2516.6	2590.7
20°	1802.7	1793.4	1801.4	1837.1	1899.3	1986.8	2084.8	2102.0	2299.4	2525.9	2605.4
22.5°	1878.2	1875.5	1855.6	1884.8	1928.5	2019.9	2112.6	2139.1	2333.8	2573.6	2617.3
25°	1961.6	1976.2	1957.7	1953.7	1984.1	2074.2	2197.3	2231.8	2449.0	2659.6	2654.3
27.5°	2117.9	2103.3	2103.3	2084.8	2076.8	2120.5	2288.8	2345.7	2577.5	2770.9	2696.7
30°	2267.6	2283.5	2271.6	2278.1	2225.2	2221.2	2418.5	2488.8	2805.3	2940.4	2786.8
32.5°	2504.7	2483.4	2503.3	2486.1	2415.9	2344.4	2594.7	2667.6	3080.8	3135.1	2921.8
35°	2702.0	2692.7	2777.5	2774.9	2660.9	2590.7	2781.5	2890.1	3272.9	3368.2	3080.8
37.5°	2982.8	2965.6	3062.3	3108.7	3006.6	2902.0	3049.0	3174.8	3451.7	3555.0	3243.7
40°	3271.5	3315.2	3445.0	3521.9	3413.3	3274.2	3376.2	3414.6	3570.9	3676.9	3355.0
42.5°	3637.1	3700.7	3833.2	3899.3	3890.1	3739.1	3708.6	3707.3	3657.0	3642.4	3437.1
45°	3988.1	3964.3	4168.2	4312.6	4429.2	4385.5	4029.2	3989.5	3793.4	3694.0	3458.3
47.5°	4141.8	4133.8	4272.9	4529.8	4927.2	4981.5	4495.4	4341.7	4023.8	3911.3	3573.5
50°	3943.1	3984.1	4121.9	4406.6	5015.9	5430.5	5067.6	4860.9	4292.7	4176.2	3846.4
52.5°	3294.1	3321.9	3453.0	3814.6	4714.0	5695.4	5615.9	5496.7	4786.8	4593.4	4321.9
54°	2708.6	2782.8	2854.3	3217.3	4176.2	5548.4	5916.6	5825.2	5108.7	4940.4	4621.3
55°	2358.9	2402.6	2454.3	2815.9	3804.0	5299.3	5882.1	5890.1	5324.6	5049.0	4822.6
57.5°	1723.2	1753.7	1700.7	1861.0	2611.9	4303.4	5380.1	5594.8	5615.9	5212.0	4945.7
60°	1316.5	1329.8	1270.2	1295.4	1623.9	2953.6	4161.6	4419.9	5066.2	4555.0	4189.4
62.5°	1021.2	1023.9	1022.5	1066.2	1119.2	1737.8	2602.7	2831.8	3492.7	3234.5	2845.0
65°	752.3	740.4	761.6	894.0	954.9	1092.8	1370.9	1537.7	1898.0	1602.6	1145.7
67.5°	487.4	491.4	512.6	664.9	818.5	838.4	843.7	830.4	831.8	458.3	287.4
70°	292.7	299.3	292.7	376.2	585.4	601.3	549.7	536.4	418.5	108.6	107.3
72.5°	173.5	164.3	147.0	161.6	243.7	291.4	262.2	260.9	164.3	63.6	63.6
75°	72.8	66.2	54.3	49.0	64.9	62.2	62.2	55.6	43.7	42.4	39.7
77.5°	14.6	14.6	10.6	11.9	15.9	18.6	22.6	22.6	26.5	26.5	25.1
80°	0.0	1.3	4.0	7.9	11.9	17.2	19.9	19.9	22.6	22.6	18.6
82.5°	0.0	1.3	4.0	7.9	10.6	15.9	19.9	19.9	22.6	23.8	19.9
85°	0.0	1.3	4.0	6.7	10.6	13.2	13.2	11.9	9.2	7.9	5.3
87.5°	0.0	0.0	1.3	2.7	1.3	2.7	2.7	2.7	2.7	2.7	2.7
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°	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7	2553.7
2.5°	2565.6	2564.2	2532.5	2480.8	2468.9	2425.2	2419.9	2393.4	2408.0	2358.9	2353.7
5°	2544.4	2528.5	2490.1	2457.0	2360.3	2291.4	2237.1	2170.9	2132.5	2139.1	2113.9
7.5°	2574.8	2533.8	2466.2	2351.0	2233.1	2112.6	2047.7	1912.6	1863.6	1790.7	1780.2
10°	2543.1	2512.6	2408.0	2217.2	2054.4	1880.8	1728.5	1578.8	1464.9	1415.9	1405.3
12.5°	2540.4	2487.4	2312.6	2100.7	1864.9	1615.9	1394.7	1207.9	1095.3	1031.8	1017.2
15°	2499.3	2435.8	2205.3	1920.5	1594.7	1284.7	1043.7	863.6	777.5	740.4	751.0
17.5°	2503.3	2408.0	2098.0	1729.8	1328.5	943.0	712.6	619.9	597.4	606.6	606.6
20°	2499.3	2345.7	1968.2	1509.9	1017.2	654.3	523.2	490.1	504.6	533.8	527.2
22.5°	2478.2	2316.6	1849.1	1278.2	748.3	484.8	419.8	421.2	443.7	479.5	487.4
25°	2494.1	2251.7	1698.0	1043.7	545.7	386.7	364.3	373.5	397.4	423.8	429.2
27.5°	2482.1	2205.3	1540.4	810.6	398.7	332.5	331.1	341.7	352.4	372.2	372.2
30°	2495.4	2163.0	1385.4	602.7	328.5	304.7	299.3	307.2	317.9	321.9	320.6
32.5°	2544.4	2131.2	1206.6	450.3	290.1	278.1	278.1	278.1	276.8	282.1	283.4
35°	2651.7	2136.4	1049.0	348.4	264.9	255.6	251.7	246.3	243.7	246.3	247.7
37.5°	2768.2	2133.8	886.1	296.7	246.3	238.4	229.1	221.2	219.9	222.5	218.5
40°	2819.9	2159.0	735.1	266.2	229.1	219.9	205.3	198.6	200.0	202.6	200.0
42.5°	2890.1	2166.9	637.1	242.4	213.2	198.6	189.4	181.4	180.2	184.1	182.8
45°	2888.8	2121.9	533.8	229.1	198.6	182.8	170.9	164.3	164.3	166.9	168.2
47.5°	2973.5	2115.3	458.3	217.2	188.1	172.2	157.6	152.3	151.0	151.0	148.4
50°	3170.9	2208.0	400.0	204.0	174.8	160.3	148.4	141.7	136.4	133.8	132.5
52.5°	3556.3	2496.7	354.9	188.1	160.3	148.4	137.7	132.5	125.8	119.2	117.9
54°	3929.8	2794.8	352.4	174.8	148.4	140.4	131.2	128.5	120.5	111.3	108.6
55°	4098.1	2968.3	361.6	164.3	140.4	135.1	127.2	124.5	116.6	105.9	104.6
57.5°	4237.1	3035.8	356.3	136.4	127.2	125.8	119.2	115.3	105.9	91.4	88.7
60°	3410.6	2295.4	255.6	120.5	116.6	113.9	108.6	105.9	94.0	78.1	76.8
62.5°	2155.0	1320.5	162.9	105.9	102.0	98.0	91.4	88.7	78.1	62.2	58.3
65°	917.9	547.0	109.9	94.0	87.4	80.8	75.5	71.5	62.2	46.4	45.0
67.5°	238.4	194.7	91.4	82.1	72.8	63.6	59.6	53.0	42.4	31.8	30.5
70°	107.3	98.0	76.8	68.9	58.3	49.0	43.7	37.1	27.8	21.2	19.9
72.5°	63.6	62.2	58.3	51.7	43.7	37.1	31.8	25.1	18.6	11.9	11.9
75°	39.7	38.4	39.7	35.8	30.5	27.8	23.8	17.2	10.6	5.3	5.3
77.5°	23.8	23.8	23.8	22.6	21.2	21.2	17.2	10.6	5.3	1.3	1.3
80°	18.6	18.6	19.9	18.6	18.6	18.6	14.6	7.9	2.7	0.0	0.0
82.5°	18.6	19.9	22.6	21.2	18.6	15.9	13.2	7.9	2.7	0.0	0.0
85°	5.3	4.0	6.7	9.2	13.2	11.9	9.2	6.7	2.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3	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)