

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: P382916

Luminaire Tested: **GLEON-SA2D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12003 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

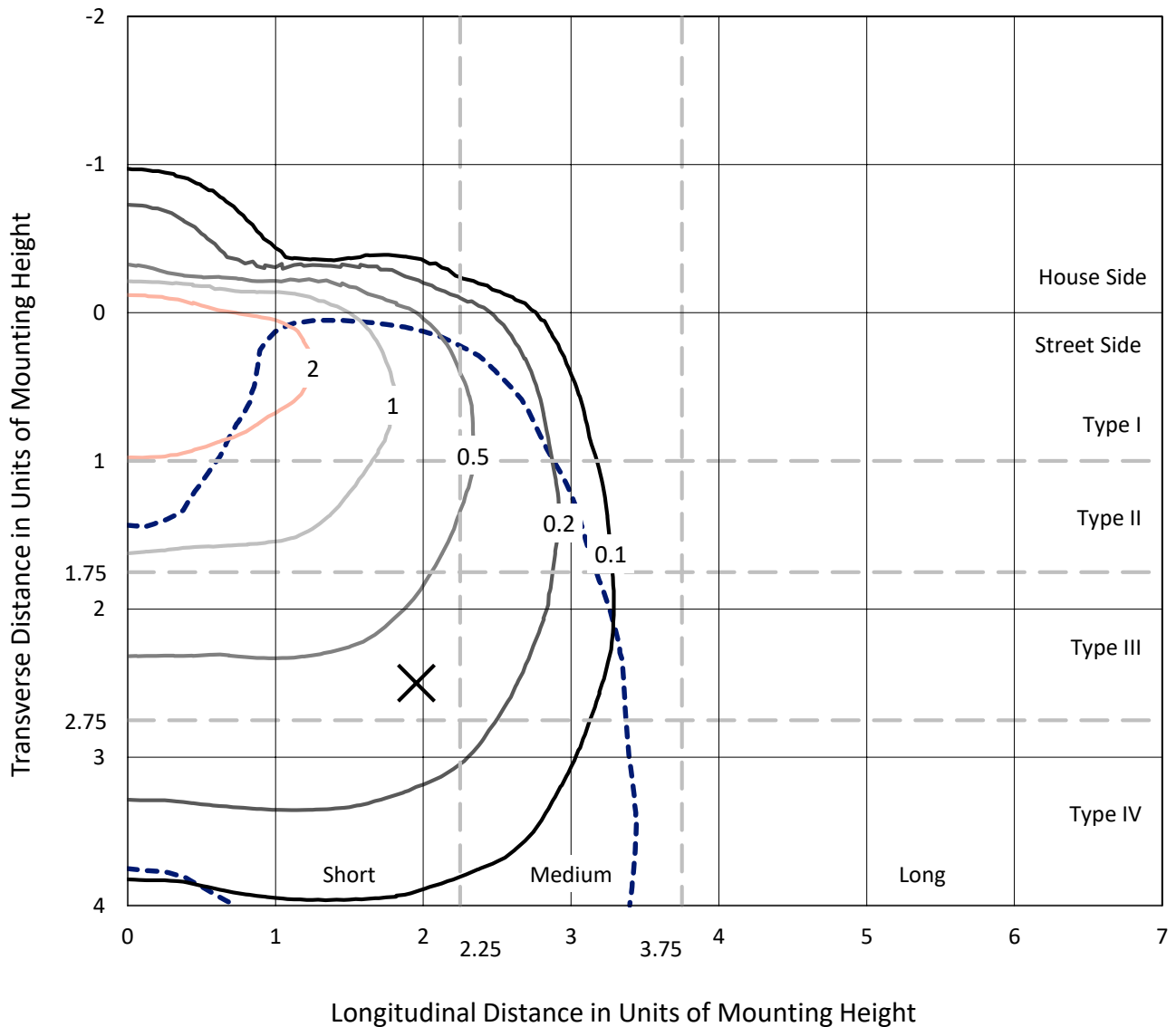
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

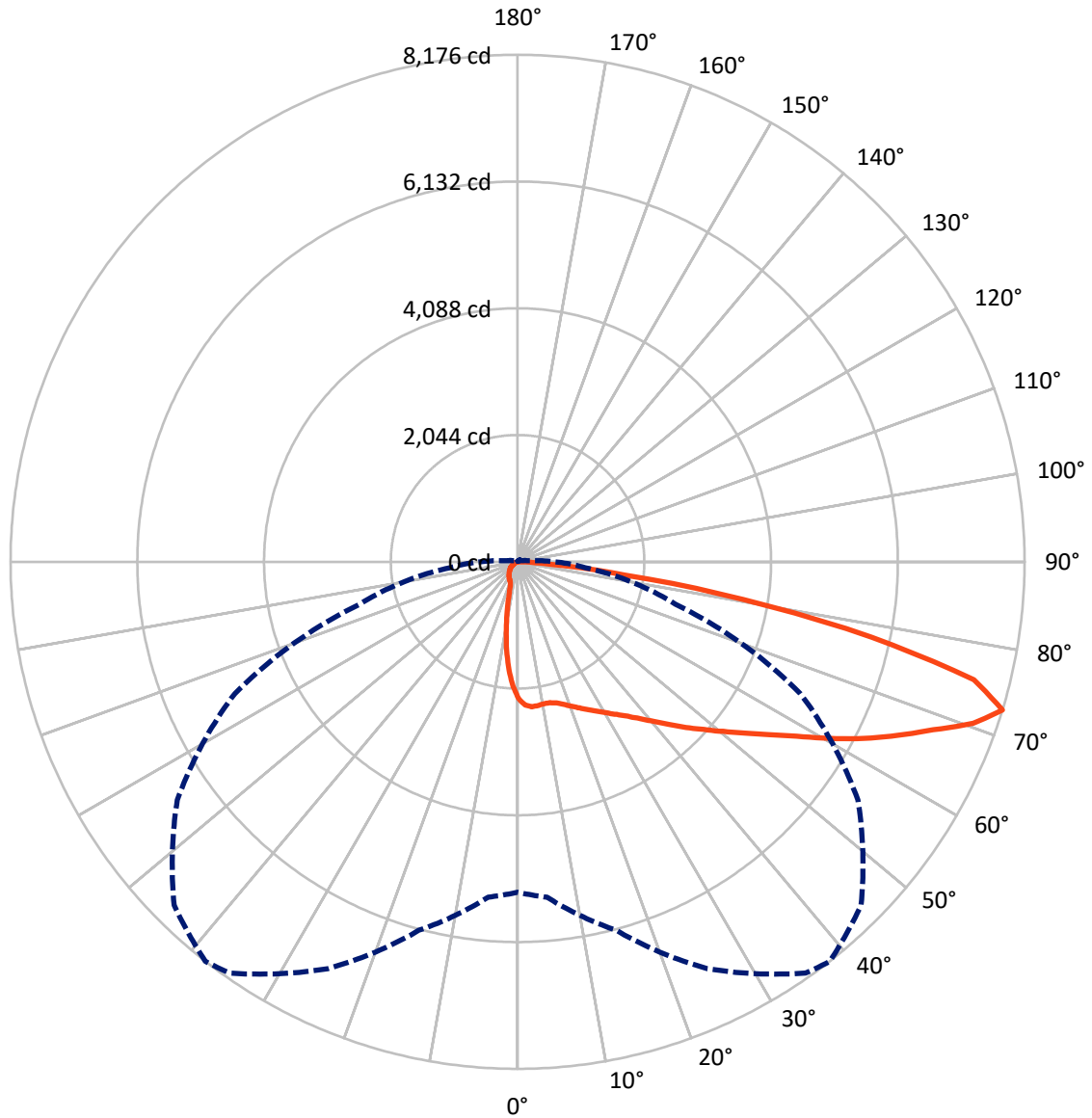
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.1	0.0	1010.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10992.9	0.0	10992.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	12003.0	0.0	12003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	1.6
10°-20°	460.0	3.8
20°-30°	731.6	6.1
30°-40°	1099.8	9.2
40°-50°	1677.8	14.0
50°-60°	2371.4	19.8
60°-70°	2974.5	24.8
70°-80°	2224.1	18.5
80°-90°	275.8	2.3
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°	12003.0	100.0
0°-180°	12003.0	100.0

Coefficient of Utilization



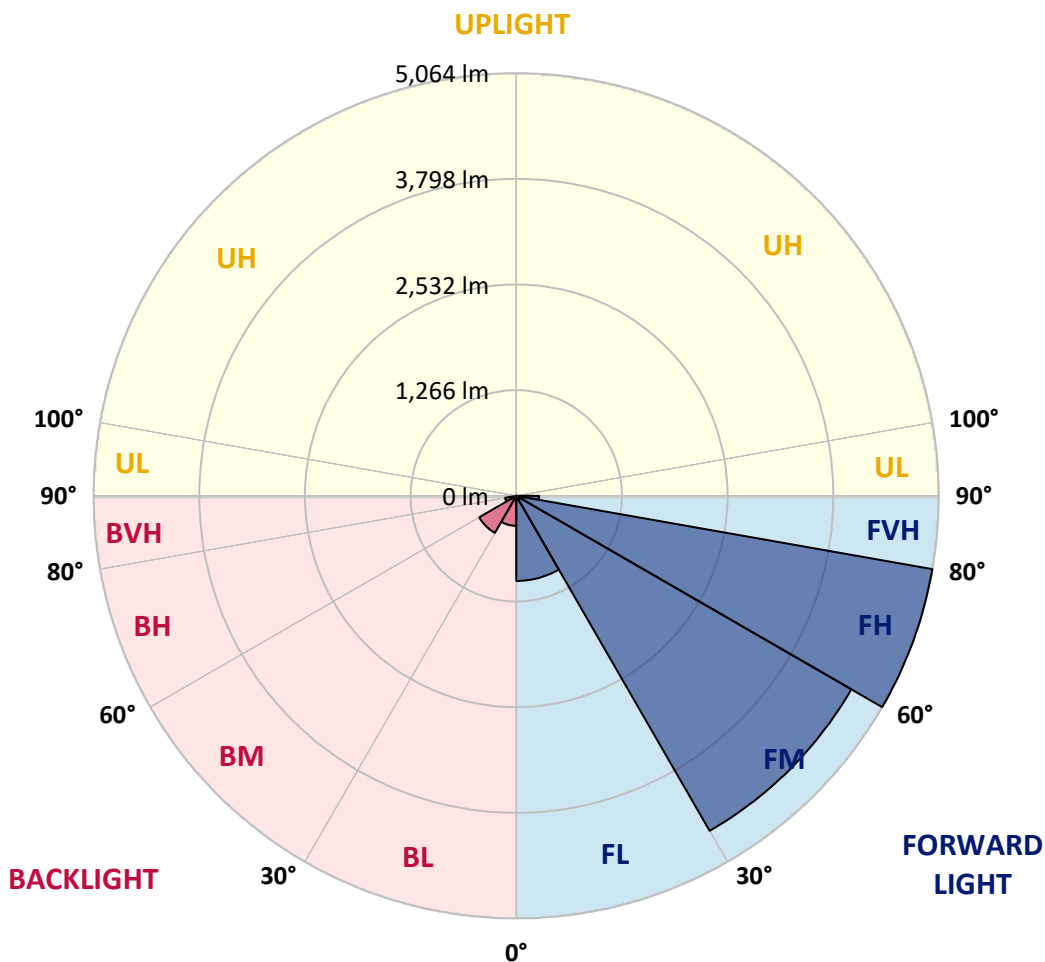
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.0	8.5			
FM (30°-60°)	4636.1	38.6			
FH (60°-80°)	5063.6	42.2			G3/7500
FVH (80°-90°)	273.2	2.3			G3/500
BL (0°-30°)	359.7	3.0	B1/500		
BM (30°-60°)	512.9	4.3	B1/1000		
BH (60°-80°)	134.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3
2.5°	2342.9	2343.4	2337.9	2329.0	2317.5	2311.4	2301.5	2285.6	2268.6	2238.2	2205.3
5°	2390.7	2390.7	2383.7	2371.8	2353.4	2347.9	2329.0	2303.5	2268.6	2219.3	2164.0
7.5°	2385.8	2386.8	2377.3	2364.8	2346.4	2341.4	2318.4	2290.0	2246.7	2186.9	2116.1
10°	2359.9	2362.3	2354.9	2348.9	2331.9	2326.4	2305.0	2276.6	2233.2	2169.4	2088.2
12.5°	2333.4	2335.9	2338.4	2343.9	2333.4	2331.5	2314.5	2290.6	2249.2	2182.9	2091.1
15°	2316.5	2321.5	2339.4	2360.8	2363.3	2361.4	2350.4	2327.9	2286.1	2217.3	2112.6
17.5°	2316.5	2324.5	2361.8	2402.7	2417.2	2418.7	2409.2	2377.8	2327.9	2254.2	2132.5
20°	2335.9	2346.8	2405.3	2463.0	2487.0	2487.0	2468.5	2424.6	2366.3	2287.6	2146.0
22.5°	2385.8	2400.2	2473.5	2540.3	2565.8	2560.3	2535.3	2471.5	2406.2	2325.4	2163.0
25°	2484.0	2495.0	2571.2	2638.5	2654.0	2641.5	2610.1	2528.3	2457.0	2376.8	2193.9
27.5°	2610.6	2612.1	2690.9	2747.7	2738.2	2729.7	2690.3	2599.6	2530.4	2450.1	2247.2
30°	2749.6	2749.6	2819.0	2862.4	2833.4	2826.4	2787.1	2685.8	2624.1	2549.7	2323.0
32.5°	2884.3	2890.2	2946.6	2974.0	2941.5	2934.6	2896.2	2795.0	2748.6	2701.8	2441.1
35°	3014.4	3018.9	3072.2	3087.1	3056.2	3058.3	3030.8	2945.1	2927.7	2921.6	2619.0
37.5°	3140.5	3141.5	3195.9	3205.3	3189.8	3206.8	3209.3	3133.5	3165.9	3214.3	2869.8
40°	3255.7	3256.6	3310.4	3334.8	3361.3	3383.3	3402.7	3362.3	3469.5	3581.6	3168.4
42.5°	3347.9	3358.3	3426.6	3473.0	3542.8	3584.6	3637.5	3635.5	3830.9	3999.4	3529.3
45°	3429.1	3447.1	3542.3	3623.5	3743.1	3809.9	3892.7	3957.5	4237.7	4464.4	3894.7
47.5°	3536.2	3553.2	3661.9	3795.0	3954.5	4042.3	4179.3	4319.4	4684.8	4921.1	4251.6
50°	3687.3	3679.9	3787.0	3978.0	4182.8	4298.0	4493.4	4703.3	5128.4	5318.9	4461.5
52.5°	3848.3	3845.3	3924.6	4176.9	4452.1	4586.6	4844.8	5100.0	5552.7	5593.0	4557.7
55°	4047.8	4026.3	4093.1	4403.6	4771.6	4916.1	5220.2	5492.9	5890.6	5747.6	4606.0
57.5°	4256.6	4221.2	4285.0	4656.4	5132.0	5302.9	5636.0	5875.7	6115.4	5853.3	4605.6
60°	4472.5	4430.5	4506.4	4972.4	5579.6	5777.5	6086.5	6134.4	6325.3	5906.6	4571.7
62.5°	4652.9	4627.9	4740.6	5310.4	6079.6	6274.0	6427.0	6369.7	6502.3	5947.9	4492.4
65°	4843.9	4845.4	5027.3	5704.7	6611.0	6742.1	6755.0	6674.7	6650.3	5939.5	4224.2
67.5°	5102.0	5125.9	5429.5	6240.1	7127.9	7229.1	7228.1	7005.2	6758.5	5602.5	3629.5
70°	5375.2	5431.6	5893.2	6852.7	7692.2	7794.9	7742.0	7215.7	6363.7	4530.3	2568.7
72.5°	5329.4	5427.0	6150.8	7239.1	8097.5	8175.7	7832.3	6698.7	5029.8	2633.0	1093.7
75°	4111.6	4224.7	5639.9	6856.2	7672.2	7602.0	6729.6	5212.7	2748.6	734.8	246.2
77.5°	2171.9	2232.3	3725.7	5223.2	5982.4	5835.3	4740.6	2891.7	837.9	181.9	110.7
80°	1137.5	1151.5	1623.6	2963.5	3692.3	3693.3	2809.5	1270.2	345.4	93.2	74.2
82.5°	609.1	621.2	857.9	1369.4	1934.6	1753.7	1075.8	698.8	200.9	52.8	71.3
85°	146.5	149.0	486.5	625.6	760.7	543.4	319.5	586.7	54.3	30.9	57.8
87.5°	56.4	57.3	180.4	270.7	193.9	125.7	149.5	218.8	7.0	11.9	8.9
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°	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3	2207.3
2.5°	2185.4	2172.5	2140.5	2100.2	2064.2	2038.3	1999.5	1974.0	1957.1	1956.5	1950.1
5°	2130.1	2103.6	2034.9	1953.1	1878.8	1812.0	1733.2	1670.9	1624.6	1617.1	1601.1
7.5°	2070.7	2027.3	1921.7	1794.1	1669.4	1542.8	1395.7	1304.5	1226.3	1188.9	1184.9
10°	2034.3	1973.5	1823.5	1639.1	1443.6	1237.7	1045.3	912.3	816.0	788.6	768.2
12.5°	2026.9	1946.6	1747.7	1493.5	1214.4	942.2	729.3	587.7	511.0	486.5	480.0
15°	2034.3	1934.2	1683.9	1349.4	982.0	668.5	489.5	407.3	378.4	371.4	370.8
17.5°	2038.8	1919.2	1611.6	1189.4	756.7	477.5	374.9	350.9	346.4	346.0	346.9
20°	2038.3	1896.3	1525.4	1010.9	562.7	375.3	339.0	334.0	333.0	333.5	333.0
22.5°	2034.9	1869.3	1430.7	827.0	425.3	335.5	323.5	320.5	320.0	320.0	320.0
25°	2041.3	1847.9	1326.5	651.1	350.4	317.0	309.6	307.0	306.6	306.6	305.5
27.5°	2064.8	1835.9	1212.3	501.0	316.5	300.6	294.6	294.1	292.6	292.1	293.2
30°	2102.6	1835.9	1087.2	389.9	296.1	283.7	279.2	278.2	277.7	277.1	277.7
32.5°	2169.4	1849.9	950.6	324.0	276.7	264.7	261.7	263.2	261.7	261.7	261.7
35°	2290.0	1891.8	807.6	282.6	256.3	246.2	243.2	245.3	244.3	244.3	243.8
37.5°	2466.0	1969.6	663.4	257.8	238.3	227.8	223.9	226.8	225.8	225.8	225.3
40°	2680.3	2082.7	526.4	238.8	220.9	209.9	206.3	207.8	205.4	205.4	206.3
42.5°	2945.1	2226.2	406.8	220.3	203.4	192.9	191.0	189.4	184.9	182.5	183.0
45°	3239.2	2375.8	317.0	202.4	187.0	178.5	175.5	171.5	164.0	159.0	159.5
47.5°	3501.9	2491.0	257.8	184.9	172.0	165.5	161.0	153.5	142.5	136.6	137.1
50°	3639.9	2508.4	219.4	167.5	158.0	151.6	145.0	133.6	120.6	114.1	113.6
52.5°	3675.3	2426.7	191.0	151.6	144.0	136.6	128.1	112.6	98.2	91.2	90.3
55°	3688.3	2302.0	165.5	136.6	129.1	120.6	109.6	92.2	78.7	71.8	71.3
57.5°	3645.4	2116.1	145.6	123.2	114.1	103.7	90.3	73.8	60.8	55.3	55.3
60°	3550.2	1864.3	130.1	108.7	98.7	86.7	72.8	57.3	45.4	40.9	40.9
62.5°	3360.3	1538.4	115.6	93.7	84.2	71.8	58.8	43.4	31.9	29.4	29.9
65°	3001.9	1166.9	101.2	80.3	71.8	59.3	45.8	30.9	21.4	21.4	22.5
67.5°	2448.1	810.5	86.3	68.3	61.9	48.3	34.9	21.4	15.0	17.0	18.9
70°	1620.6	454.6	73.8	56.4	52.8	38.4	25.9	14.4	11.9	15.9	19.5
72.5°	611.7	177.0	61.9	45.4	45.8	29.4	18.4	11.0	11.0	17.4	22.9
75°	170.5	86.7	44.3	33.4	35.9	21.4	13.4	9.5	10.4	19.9	26.9
77.5°	100.2	63.8	28.9	19.5	24.4	15.0	8.9	7.5	8.9	17.0	25.9
80°	80.8	33.9	17.0	10.0	13.4	8.5	6.0	4.5	2.5	6.5	13.4
82.5°	80.8	20.4	8.0	7.0	7.0	4.5	3.0	2.0	0.5	0.0	3.4
85°	54.3	8.5	5.0	4.5	3.4	1.5	1.0	0.5	0.0	0.0	0.0
87.5°	8.9	3.4	2.0	1.0	0.5	0.0	0.0	0.0	0.0	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)