

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: P383000

Luminaire Tested: **GLEON-SA3C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383000
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-SA3C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 16326.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

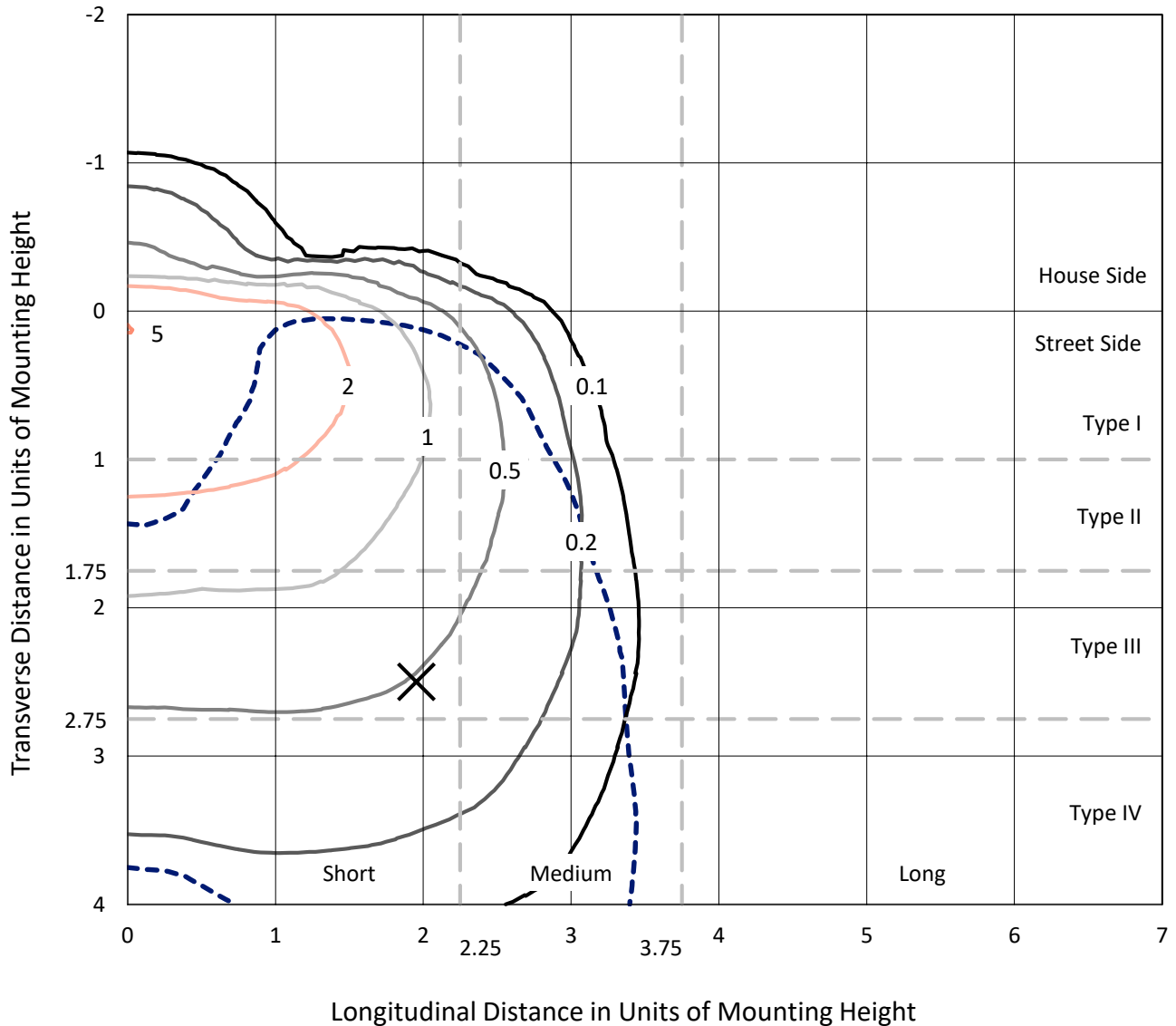
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

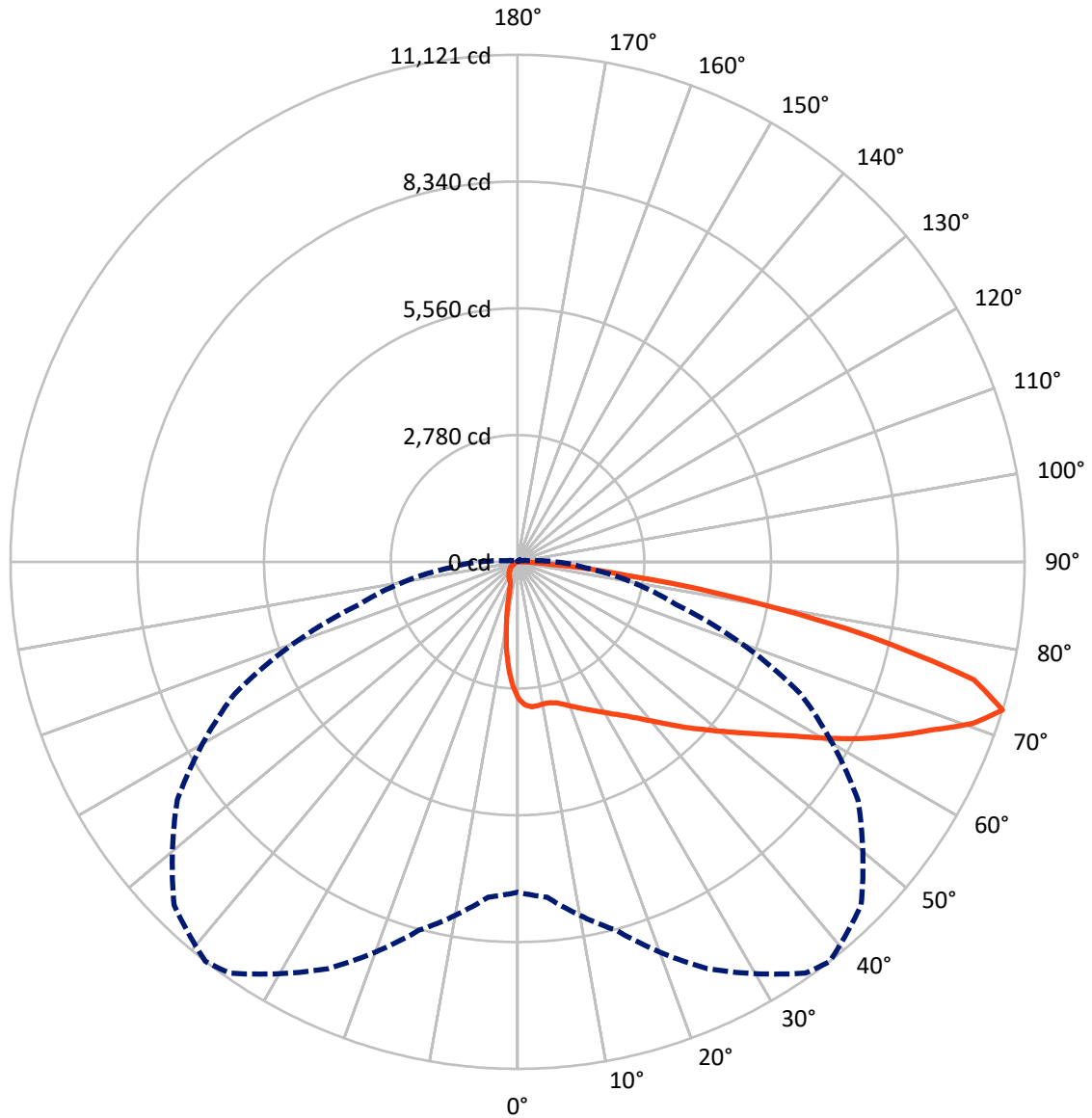
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1373.9	0.0	1373.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14952.4	0.0	14952.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	16326.3	0.0	16326.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	1.6
10°-20°	625.6	3.8
20°-30°	995.1	6.1
30°-40°	1495.9	9.2
40°-50°	2282.2	14.0
50°-60°	3225.5	19.8
60°-70°	4045.9	24.8
70°-80°	3025.2	18.5
80°-90°	375.1	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°	16326.3	100.0
0°-180°	16326.3	100.0

Coefficient of Utilization



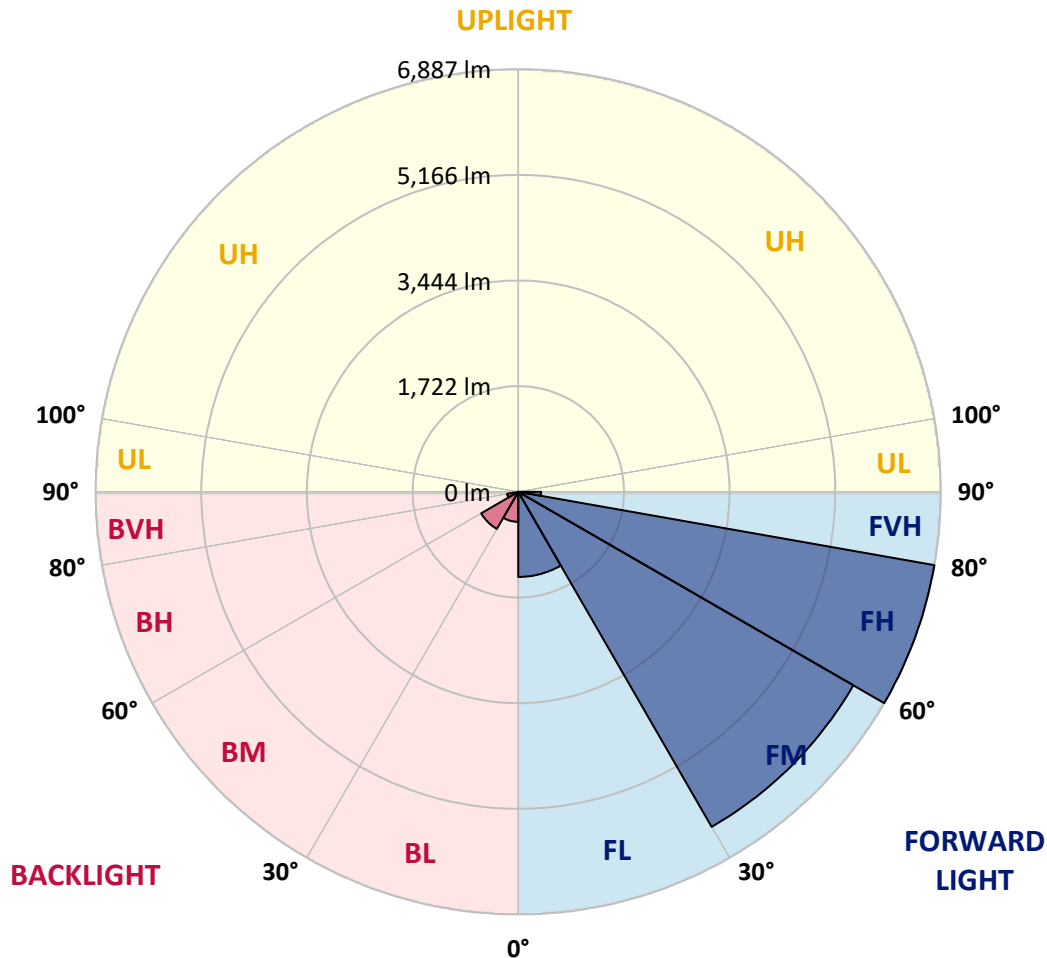
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.3	8.5			
FM (30°-60°)	6305.9	38.6			
FH (60°-80°)	6887.5	42.2			G3/7500
FVH (80°-90°)	371.6	2.3			G3/500
BL (0°-30°)	489.2	3.0	B1/500		
BM (30°-60°)	697.7	4.3	B1/1000		
BH (60°-80°)	183.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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°	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4
2.5°	3186.8	3187.5	3180.0	3167.8	3152.2	3144.1	3130.5	3108.8	3085.8	3044.4	2999.7
5°	3251.8	3251.8	3242.3	3226.1	3201.0	3193.5	3167.8	3133.3	3085.8	3018.6	2943.3
7.5°	3245.0	3246.4	3233.6	3216.6	3191.5	3184.8	3153.6	3114.9	3055.9	2974.5	2878.3
10°	3209.8	3213.2	3203.0	3194.9	3171.8	3164.4	3135.2	3096.6	3037.6	2950.9	2840.3
12.5°	3173.9	3177.3	3180.7	3188.1	3173.9	3171.2	3148.2	3115.6	3059.3	2969.1	2844.4
15°	3150.9	3157.7	3182.1	3211.2	3214.6	3211.9	3197.0	3166.4	3109.5	3015.9	2873.5
17.5°	3150.9	3161.7	3212.5	3268.1	3287.8	3289.9	3277.0	3234.2	3166.4	3066.1	2900.7
20°	3177.3	3192.2	3271.5	3350.2	3382.7	3382.7	3357.7	3298.0	3218.7	3111.6	2918.9
22.5°	3245.0	3264.8	3364.5	3455.3	3489.9	3482.4	3448.5	3361.7	3272.9	3163.1	2942.0
25°	3378.6	3393.6	3497.3	3588.9	3609.8	3592.9	3550.2	3439.0	3342.0	3232.8	2984.0
27.5°	3550.9	3552.9	3660.1	3737.4	3724.4	3713.0	3659.4	3536.0	3441.7	3332.5	3056.6
30°	3740.1	3740.1	3834.3	3893.3	3854.0	3844.5	3790.9	3653.3	3569.2	3468.2	3159.6
32.5°	3923.1	3931.2	4007.9	4045.2	4001.1	3991.6	3939.4	3801.7	3738.7	3675.0	3320.3
35°	4100.1	4106.2	4178.7	4199.1	4157.0	4159.7	4122.5	4005.8	3982.1	3974.0	3562.4
37.5°	4271.6	4273.0	4346.9	4359.8	4338.8	4361.8	4365.2	4262.1	4306.3	4372.0	3903.5
40°	4428.3	4429.6	4502.8	4536.1	4572.0	4601.8	4628.3	4573.3	4719.1	4871.7	4309.6
42.5°	4553.7	4567.9	4660.8	4723.9	4818.8	4875.8	4947.6	4944.9	5210.7	5439.9	4800.5
45°	4664.3	4688.7	4818.2	4928.6	5091.4	5182.3	5294.8	5382.9	5764.0	6072.5	5297.5
47.5°	4810.0	4833.1	4980.9	5161.9	5378.8	5498.2	5684.7	5875.2	6372.2	6693.6	5783.0
50°	5015.5	5005.3	5151.1	5410.7	5689.4	5846.0	6111.8	6397.3	6975.6	7234.7	6068.5
52.5°	5234.5	5230.4	5338.2	5681.3	6055.5	6238.7	6589.9	6937.0	7552.7	7607.6	6199.3
55°	5505.6	5476.5	5567.4	5989.8	6490.2	6686.8	7100.4	7471.3	8012.3	7817.8	6265.0
57.5°	5789.8	5741.6	5828.4	6333.6	6980.4	7213.0	7665.9	7992.0	8318.2	7961.6	6264.4
60°	6083.4	6026.4	6129.5	6763.4	7589.3	7858.4	8278.8	8344.0	8603.6	8034.0	6218.3
62.5°	6328.8	6294.9	6448.2	7223.1	8269.3	8533.8	8741.9	8664.0	8844.3	8090.4	6110.5
65°	6588.5	6590.5	6838.0	7759.5	8992.1	9170.4	9188.1	9079.0	9045.7	8078.8	5745.7
67.5°	6939.8	6972.3	7385.2	8487.7	9695.3	9833.0	9831.6	9528.4	9192.9	7620.4	4936.8
70°	7311.3	7387.9	8015.8	9321.0	10462.8	10602.5	10530.6	9814.6	8655.8	6162.0	3494.0
72.5°	7248.9	7381.8	8366.3	9846.5	11014.1	11120.5	10653.4	9111.5	6841.4	3581.4	1487.6
75°	5592.5	5746.3	7671.3	9325.7	10435.7	10340.1	9153.5	7090.3	3738.7	999.5	335.0
77.5°	2954.2	3036.3	5067.6	7104.4	8137.2	7937.2	6448.2	3933.3	1139.7	247.5	150.5
80°	1547.3	1566.3	2208.3	4030.9	5022.3	5023.6	3821.4	1727.6	469.9	126.8	101.1
82.5°	828.5	844.8	1166.9	1862.5	2631.4	2385.3	1463.2	950.6	273.2	71.9	97.0
85°	199.4	202.7	661.8	851.0	1034.7	739.1	434.7	798.1	73.9	42.0	78.6
87.5°	76.6	78.0	245.5	368.1	263.7	170.8	203.4	297.6	9.5	16.3	12.2
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°	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4	3002.4
2.5°	2972.5	2954.9	2911.5	2856.6	2807.8	2772.5	2719.7	2685.0	2662.0	2661.3	2652.5
5°	2897.3	2861.3	2767.7	2656.6	2555.5	2464.7	2357.6	2272.8	2209.7	2199.6	2177.9
7.5°	2816.5	2757.6	2613.8	2440.3	2270.7	2098.5	1898.5	1774.4	1667.9	1617.2	1611.7
10°	2767.1	2684.3	2480.2	2229.4	1963.6	1683.6	1421.8	1240.8	1109.9	1072.7	1044.8
12.5°	2756.9	2647.7	2377.2	2031.4	1651.7	1281.5	992.0	799.4	695.0	661.8	652.9
15°	2767.1	2630.8	2290.4	1835.4	1335.7	909.3	665.9	554.0	514.6	505.2	504.4
17.5°	2773.2	2610.5	2192.1	1617.8	1029.3	649.6	509.9	477.3	471.3	470.5	471.9
20°	2772.5	2579.3	2074.8	1375.1	765.5	510.6	461.0	454.3	452.9	453.6	452.9
22.5°	2767.7	2542.7	1946.0	1124.8	578.4	456.4	440.1	436.0	435.3	435.3	435.3
25°	2776.6	2513.5	1804.2	885.5	476.7	431.2	421.1	417.7	417.0	417.0	415.7
27.5°	2808.4	2497.2	1649.0	681.4	430.6	408.9	400.8	400.0	398.1	397.3	398.7
30°	2859.9	2497.2	1478.8	530.2	402.8	385.8	379.7	378.3	377.6	377.0	377.6
32.5°	2950.9	2516.2	1293.0	440.7	376.3	360.0	355.9	358.0	355.9	355.9	355.9
35°	3114.9	2573.1	1098.4	384.4	348.5	335.0	330.9	333.6	332.3	332.3	331.5
37.5°	3354.2	2678.9	902.5	350.5	324.1	309.8	304.4	308.5	307.1	307.1	306.5
40°	3645.8	2832.8	716.0	324.7	300.3	285.4	280.7	282.7	279.4	279.4	280.7
42.5°	4005.8	3028.1	553.2	299.7	276.7	262.4	259.7	257.7	251.5	248.2	248.8
45°	4405.8	3231.5	431.2	275.3	254.2	242.8	238.7	233.3	223.1	216.3	217.0
47.5°	4763.2	3388.1	350.5	251.5	233.9	225.2	219.0	208.9	193.9	185.8	186.5
50°	4951.0	3411.9	298.4	227.9	214.9	206.2	197.3	181.7	164.0	155.3	154.6
52.5°	4999.2	3300.7	259.7	206.2	196.0	185.8	174.3	153.2	133.6	124.1	122.7
55°	5016.8	3131.2	225.2	185.8	175.6	164.0	149.1	125.5	107.1	97.6	97.0
57.5°	4958.5	2878.3	198.0	167.5	155.3	141.0	122.7	100.3	82.7	75.3	75.3
60°	4829.0	2535.9	177.0	147.8	134.2	117.9	99.0	78.0	61.7	55.6	55.6
62.5°	4570.6	2092.4	157.3	127.4	114.6	97.6	80.0	59.0	43.4	40.0	40.7
65°	4083.2	1587.3	137.7	109.2	97.6	80.7	62.4	42.0	29.2	29.2	30.6
67.5°	3329.8	1102.5	117.3	92.9	84.1	65.8	47.5	29.2	20.3	23.0	25.8
70°	2204.3	618.4	100.3	76.6	71.9	52.2	35.2	19.7	16.3	21.7	26.5
72.5°	832.0	240.7	84.1	61.7	62.4	40.0	25.1	14.9	14.9	23.8	31.2
75°	231.9	117.9	60.4	45.5	48.8	29.2	18.4	12.9	14.3	27.1	36.6
77.5°	136.3	86.8	39.3	26.5	33.3	20.3	12.2	10.2	12.2	23.0	35.2
80°	109.8	46.1	23.0	13.6	18.4	11.6	8.1	6.1	3.4	8.8	18.4
82.5°	109.8	27.8	10.8	9.5	9.5	6.1	4.1	2.7	0.7	0.0	4.8
85°	73.9	11.6	6.8	6.1	4.8	2.0	1.4	0.7	0.0	0.0	0.0
87.5°	12.2	4.8	2.7	1.4	0.7	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)