

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: P321728

Luminaire Tested: **GLEON-SA4C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16131 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 225
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

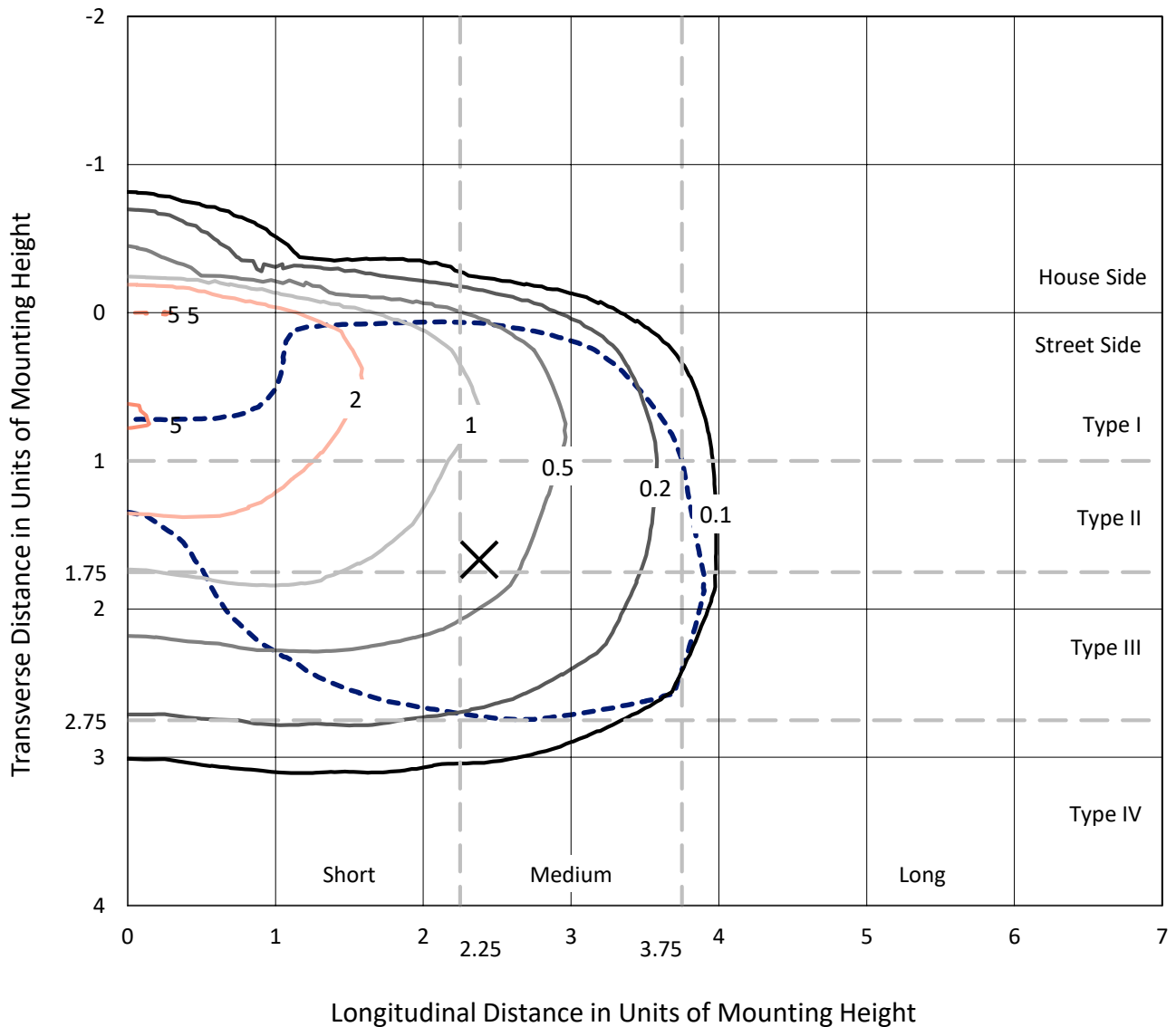




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Iso-Footcandle Lines of Horizontal Illumination

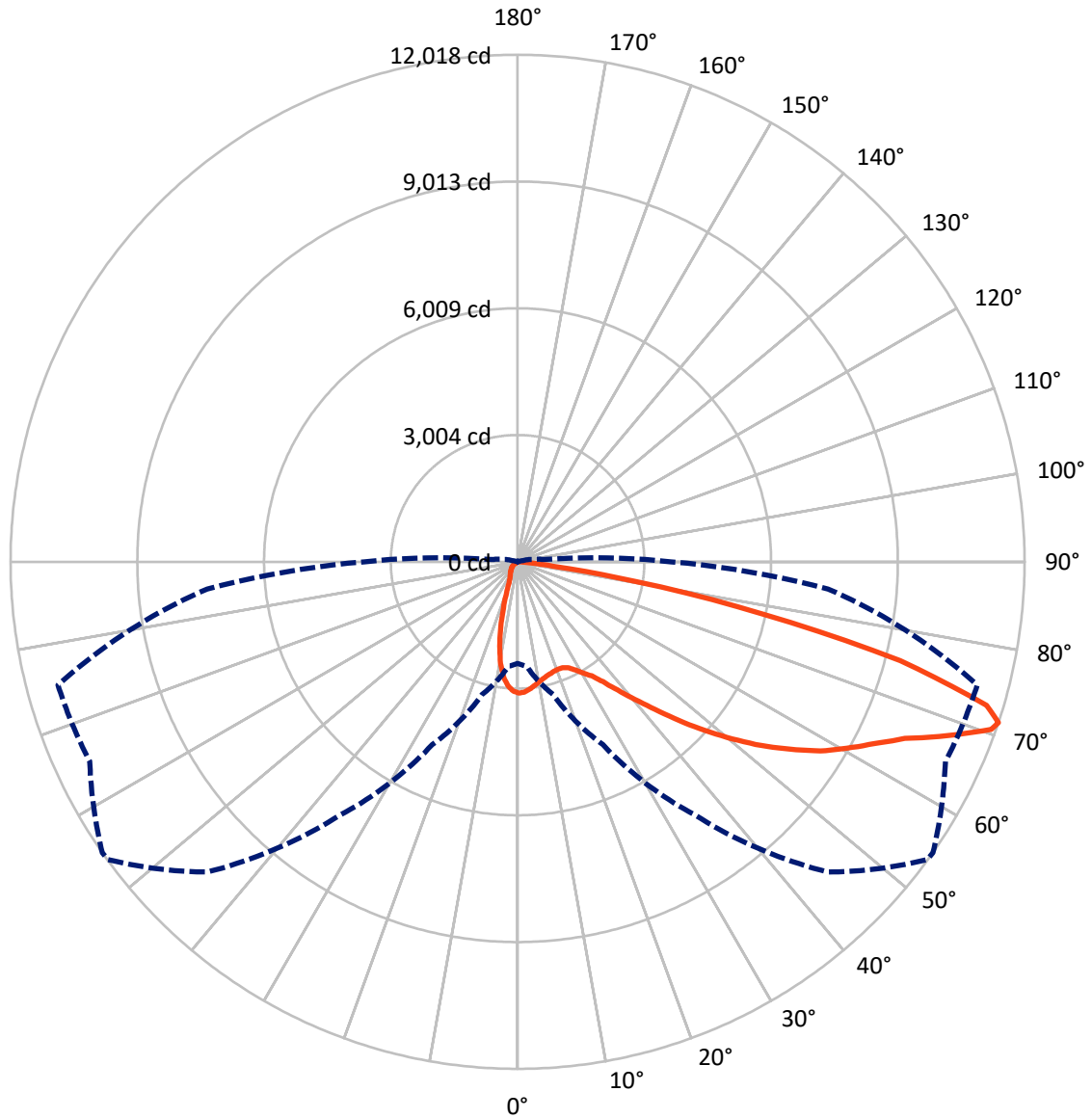
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1277.1	0.0	1277.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	14853.9	0.0	14853.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	16131.0	0.0	16131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.6
10°-20°	598.8	3.7
20°-30°	962.3	6.0
30°-40°	1635.0	10.1
40°-50°	2537.8	15.7
50°-60°	3412.0	21.2
60°-70°	4174.0	25.9
70°-80°	2440.4	15.1
80°-90°	105.5	0.7
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°	16131.0	100.0
0°-180°	16131.0	100.0

Coefficient of Utilization

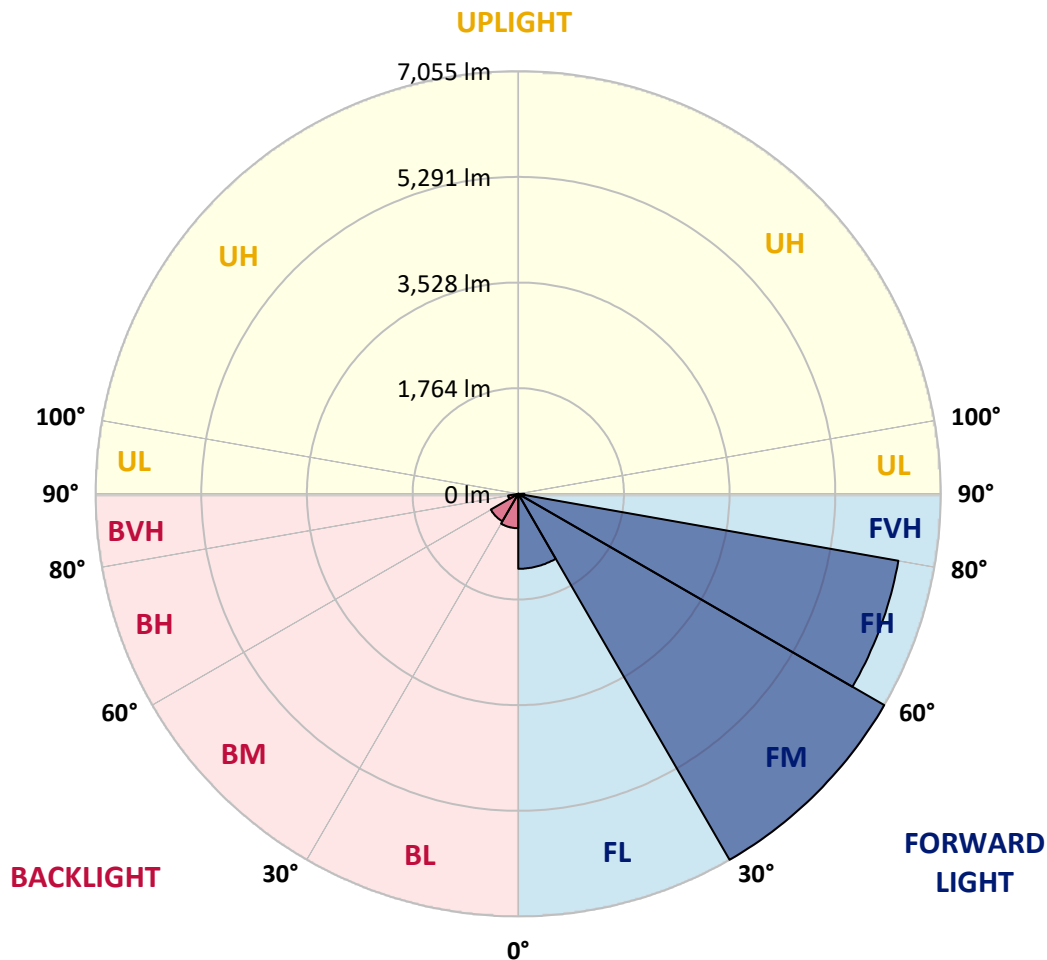


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.5	7.8			
FM (30°-60°)	7055.2	43.7			
FH (60°-80°)	6443.3	39.9			G3/7500
FVH (80°-90°)	103.8	0.6			G2/225
BL (0°-30°)	574.8	3.6	B2/1000		
BM (30°-60°)	529.5	3.3	B1/1000		
BH (60°-80°)	171.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9
2.5°	3019.7	3023.3	3036.3	3042.1	3055.9	3079.1	3090.6	3091.4	3110.2	3117.4	3123.2
5°	2806.0	2827.7	2849.4	2872.6	2914.6	2970.4	3025.5	3030.5	3091.4	3136.3	3160.2
7.5°	2622.0	2641.6	2667.6	2704.6	2764.0	2851.6	2943.6	2954.5	3069.6	3171.8	3225.4
10°	2433.0	2448.9	2486.6	2540.9	2622.7	2740.1	2863.9	2882.0	3050.1	3219.6	3313.7
12.5°	2230.9	2240.3	2285.9	2364.2	2484.4	2633.6	2796.6	2820.5	3037.8	3274.6	3418.0
15°	2077.3	2081.7	2125.1	2206.3	2343.9	2538.0	2744.4	2773.4	3040.7	3340.5	3531.7
17.5°	2038.2	2040.4	2063.6	2119.3	2241.0	2452.5	2703.1	2738.6	3049.4	3405.0	3646.2
20°	2196.8	2181.6	2157.7	2149.0	2201.2	2401.1	2678.5	2718.3	3060.9	3462.2	3749.0
22.5°	2632.2	2587.2	2488.0	2355.5	2275.1	2404.7	2685.0	2724.9	3097.9	3532.5	3867.8
25°	3278.2	3215.9	3047.2	2786.4	2535.8	2509.0	2739.3	2779.9	3169.6	3616.5	3981.5
27.5°	4013.4	3951.8	3745.4	3373.1	2945.8	2715.4	2863.9	2901.6	3276.1	3691.1	4068.5
30°	4717.4	4700.1	4456.7	4033.7	3461.5	3050.1	3024.7	3056.6	3355.0	3736.0	4137.3
32.5°	5314.3	5286.8	5091.2	4679.8	4051.8	3452.1	3213.8	3223.2	3414.4	3793.9	4227.1
35°	5867.7	5833.6	5661.9	5273.0	4657.3	3943.2	3504.9	3491.2	3544.1	3910.6	4357.5
37.5°	6350.8	6381.9	6191.4	5821.3	5200.6	4453.8	3897.5	3856.2	3746.9	4100.3	4546.5
40°	6754.9	6754.9	6655.7	6347.1	5787.3	4981.8	4341.5	4287.2	4051.8	4393.0	4786.3
42.5°	6900.5	6931.7	6968.6	6794.0	6312.4	5530.8	4836.2	4779.7	4481.3	4808.0	5089.0
45°	6909.2	6958.5	7147.5	7146.8	6786.8	6076.3	5394.0	5367.2	5031.8	5341.1	5464.2
47.5°	6786.8	6848.4	7159.8	7336.6	7162.7	6584.0	6003.8	5970.5	5678.6	5994.4	5856.8
50°	6597.8	6665.8	7028.0	7411.2	7418.4	7025.8	6646.3	6596.3	6390.6	6741.2	6262.4
52.5°	6259.5	6391.3	6909.9	7428.5	7586.4	7407.5	7257.6	7235.9	7187.4	7460.4	6585.4
55°	5535.9	5682.2	6613.7	7434.3	7742.2	7745.8	7830.5	7836.3	7934.1	8132.6	6825.9
57.5°	5194.0	5276.6	6096.5	7461.9	7973.2	8129.7	8414.3	8459.2	8610.6	8770.7	7100.4
60°	4978.9	5076.7	5841.6	7424.2	8336.1	8633.1	8955.4	8970.6	9132.9	9429.1	7472.0
62.5°	4807.3	4903.6	5680.8	7279.3	8743.9	9238.6	9484.1	9485.6	9607.3	10213.5	7894.3
65°	4383.5	4464.7	5355.6	7116.4	9013.3	9837.6	10098.4	10088.9	10188.2	11040.7	8384.6
67.5°	3770.8	3833.1	4691.4	6498.5	8911.9	10382.3	11025.5	10994.3	10874.1	11755.6	8577.3
70°	2915.4	2937.8	3697.6	5415.7	7961.6	10591.6	11921.5	11905.5	11294.9	11627.4	7871.1
71°	2409.8	2483.7	3258.7	4779.7	7325.0	10398.2	12008.4	12017.8	11189.2	11278.3	7385.1
72.5°	1399.4	1462.4	2362.0	3670.8	6218.9	9591.3	11557.9	11625.9	10695.2	10258.4	6308.0
75°	299.9	320.9	875.7	1776.7	3420.9	6722.3	9122.7	9365.4	8717.1	6978.7	3801.9
77.5°	208.6	225.3	375.2	806.2	1130.7	3321.7	5667.0	5940.8	5207.8	2622.7	1216.8
80°	165.1	184.0	292.6	398.4	305.7	1071.3	2654.6	2821.9	1736.9	585.2	205.0
82.5°	92.0	109.4	228.2	215.1	117.3	203.5	743.1	840.2	347.7	118.1	48.5
85°	26.8	32.6	147.0	156.5	50.0	39.1	126.8	157.2	65.9	31.1	21.7
87.5°	0.0	0.0	71.0	60.1	14.5	5.8	11.6	13.0	13.0	13.0	14.5
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°	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9	3110.9
2.5°	3123.2	3128.3	3110.2	3086.3	3060.9	3029.8	2997.2	2971.9	2971.1	2958.8	2946.5
5°	3161.6	3158.7	3108.7	3032.7	2942.9	2849.4	2760.4	2659.7	2626.4	2585.1	2571.3
7.5°	3232.6	3212.3	3106.6	2940.0	2743.0	2547.4	2345.3	2141.8	2054.9	1976.6	1962.9
10°	3321.7	3283.3	3092.8	2800.9	2439.5	2078.8	1773.8	1497.2	1375.5	1282.0	1277.7
12.5°	3414.4	3355.7	3054.4	2590.9	2041.8	1534.8	1183.5	911.2	809.8	744.6	750.4
15°	3511.5	3423.8	2971.9	2307.7	1589.1	1041.6	727.2	567.1	526.6	509.9	514.3
17.5°	3610.7	3470.9	2856.7	1966.5	1142.2	672.2	503.4	458.5	458.5	462.1	463.6
20°	3696.9	3496.3	2687.2	1584.1	774.3	489.6	440.4	433.9	437.5	443.3	444.0
22.5°	3782.4	3497.7	2466.3	1196.6	541.8	428.8	419.4	416.5	418.7	425.2	425.9
25°	3851.9	3480.3	2189.6	851.1	432.4	404.2	399.8	398.4	399.8	407.8	407.8
27.5°	3880.1	3417.3	1852.1	598.3	387.5	376.6	375.2	376.6	378.8	384.6	385.3
30°	3883.0	3307.2	1484.1	433.1	351.3	339.7	342.6	347.7	345.5	344.0	345.5
32.5°	3890.3	3179.7	1125.6	356.4	320.9	302.8	299.1	299.1	290.4	285.4	282.5
35°	3914.2	3029.8	816.3	320.1	289.7	268.7	255.0	239.0	222.4	213.7	211.5
37.5°	3951.8	2872.6	584.5	296.2	262.2	238.3	212.2	184.0	160.1	153.6	153.6
40°	4020.7	2710.4	432.4	277.4	240.5	210.8	171.7	134.7	113.0	109.4	109.4
42.5°	4129.3	2539.4	344.8	260.8	221.6	182.5	131.1	97.8	81.8	79.7	79.0
45°	4242.3	2351.1	301.3	244.8	201.4	149.9	97.1	72.4	63.0	60.8	60.8
47.5°	4355.3	2150.5	280.3	229.6	181.8	116.6	72.4	57.2	52.9	52.9	53.6
50°	4450.9	1941.2	265.1	212.9	156.5	88.4	57.2	48.5	47.1	50.0	50.7
52.5°	4474.8	1735.5	246.3	191.9	125.3	67.4	47.1	42.7	42.7	42.7	42.7
55°	4460.3	1576.1	221.6	165.9	92.7	53.6	40.6	37.7	36.9	36.9	36.9
57.5°	4509.6	1481.9	177.5	128.9	66.6	43.5	35.5	33.3	31.9	31.1	31.1
60°	4608.8	1420.4	126.8	92.7	50.0	36.2	30.4	28.2	26.1	24.6	24.6
62.5°	4740.6	1366.8	94.2	68.8	38.4	29.0	25.4	23.2	20.3	18.8	18.8
65°	4842.0	1271.2	71.7	51.4	29.0	23.2	19.6	18.8	14.5	13.0	12.3
67.5°	4687.0	1061.1	57.9	37.7	21.7	18.1	15.2	14.5	8.7	7.2	7.2
70°	4019.9	738.8	46.4	27.5	15.9	14.5	12.3	9.4	6.5	5.8	5.8
71°	3645.5	617.1	42.0	23.2	13.8	13.8	11.6	8.0	5.8	5.1	5.1
72.5°	3028.3	438.2	35.5	18.1	12.3	14.5	12.3	7.2	5.8	5.1	4.3
75°	1757.9	183.3	24.6	12.3	9.4	17.4	15.9	6.5	4.3	3.6	3.6
77.5°	528.7	67.4	13.8	8.0	7.2	15.2	18.1	5.8	2.2	0.7	0.7
80°	96.3	29.0	8.7	5.1	5.1	9.4	13.8	2.9	0.0	0.0	0.0
82.5°	34.0	14.5	5.1	2.9	2.2	4.3	6.5	0.0	0.0	0.0	0.0
85°	19.6	10.1	2.9	1.4	0.0	0.7	1.4	0.0	0.0	0.0	0.0
87.5°	13.0	2.9	0.0	0.0	0.0	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)