

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: P192003

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA 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: 19508 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 210
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: 25 FT

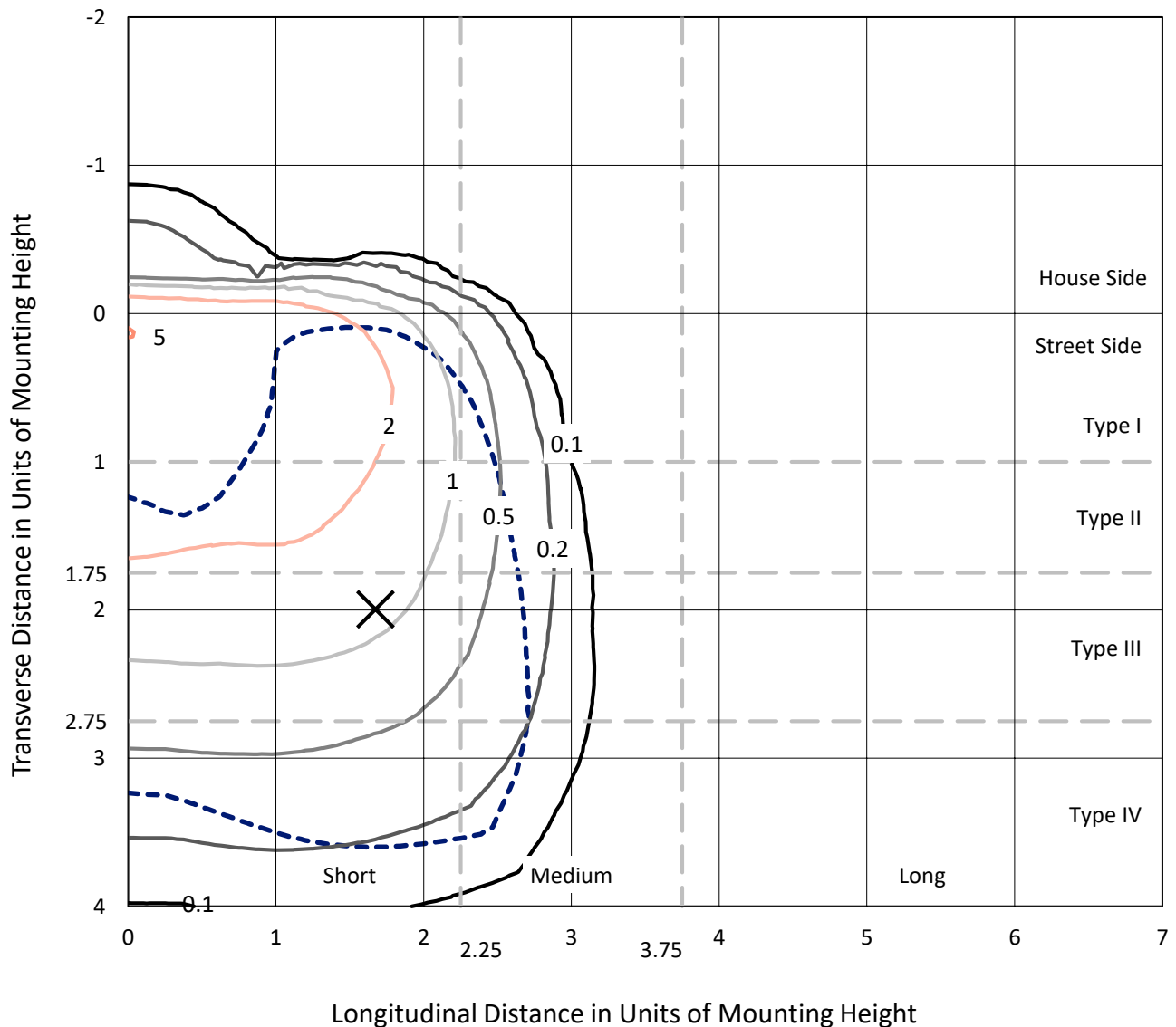


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

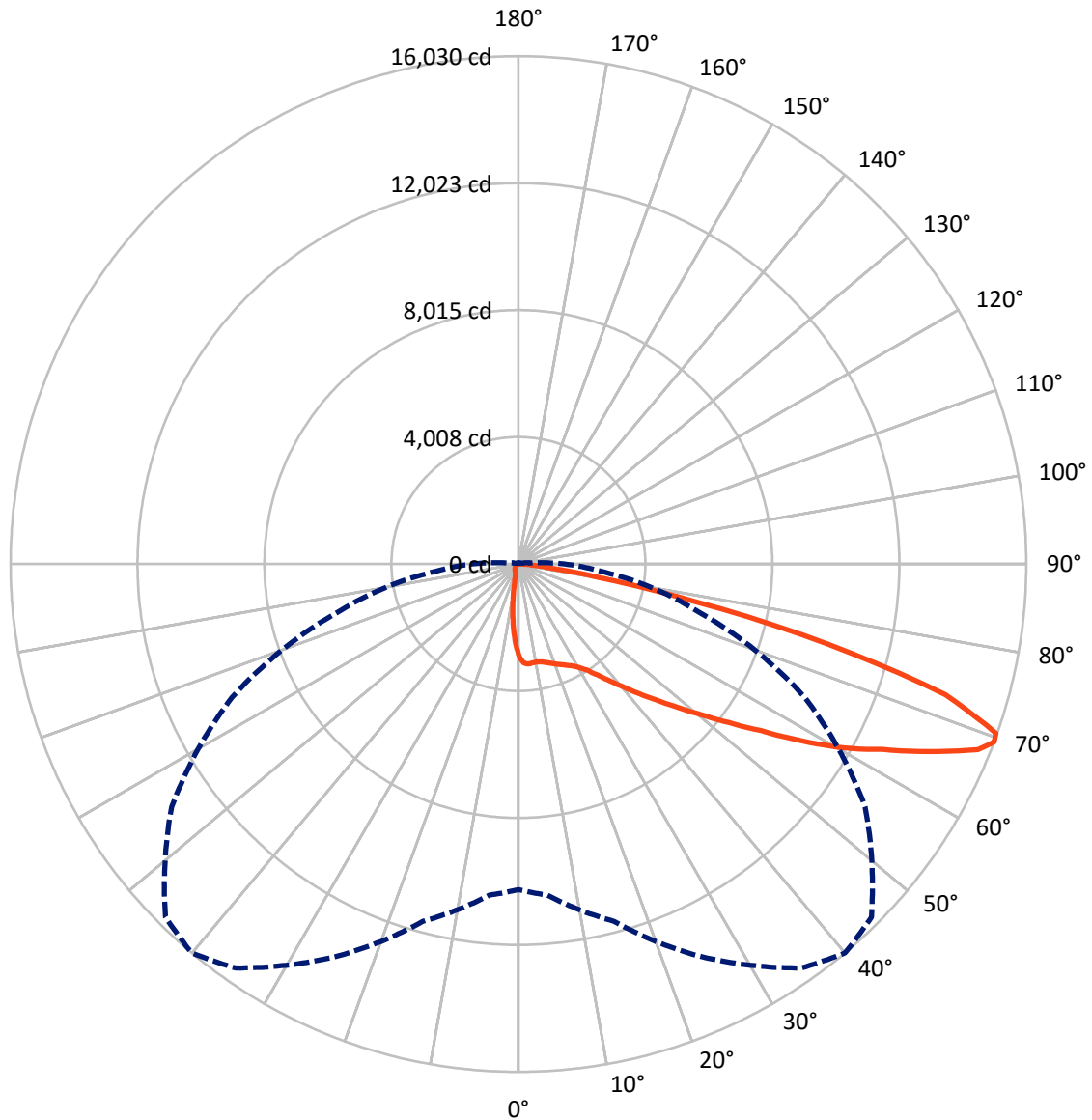


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.3	0.0	1141.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18366.7	0.0	18366.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	19508.0	0.0	19508.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	1.2
10°-20°	581.1	3.0
20°-30°	978.8	5.0
30°-40°	1602.4	8.2
40°-50°	2774.5	14.2
50°-60°	4370.1	22.4
60°-70°	5707.2	29.3
70°-80°	2939.5	15.1
80°-90°	318.0	1.6
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°	19508.0	100.0
0°-180°	19508.0	100.0



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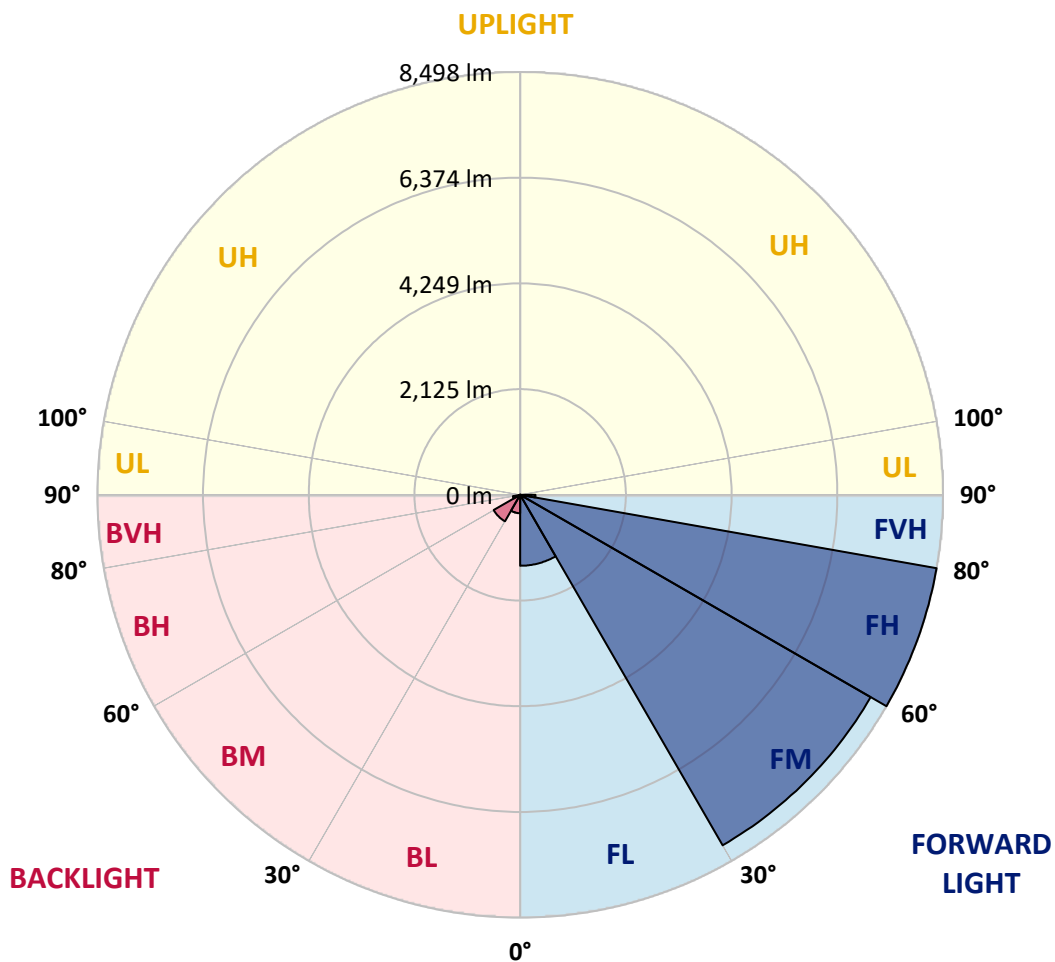
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1426.6	7.3			
FM	(30°-60°)	8133.6	41.7			
FH	(60°-80°)	8498.5	43.6			G4/12000
FVH	(80°-90°)	308.0	1.6			G3/500
BL	(0°-30°)	369.7	1.9	B1/500		
BM	(30°-60°)	613.4	3.1	B1/1000		
BH	(60°-80°)	148.2	0.8	B1/500		G1/500
BVH	(80°-90°)	10.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	3200.2	3182.8	3172.4	3158.4	3141.0	3125.9	3120.1	3077.2	3036.5	2980.8	2916.9
5°	3259.5	3253.7	3235.1	3216.5	3195.6	3172.4	3159.6	3108.5	3050.5	2969.2	2857.7
7.5°	3265.3	3258.3	3235.1	3209.5	3180.5	3152.6	3130.6	3079.5	3026.1	2943.6	2807.8
10°	3256.0	3247.9	3230.4	3202.6	3166.6	3139.9	3117.8	3069.0	3023.7	2949.4	2798.5
12.5°	3245.5	3237.4	3229.3	3215.3	3184.0	3165.4	3146.8	3100.4	3059.7	2997.0	2832.2
15°	3256.0	3251.3	3260.6	3254.8	3237.4	3221.2	3202.6	3160.8	3123.6	3071.4	2893.7
17.5°	3300.1	3300.1	3329.1	3332.6	3316.4	3293.1	3266.4	3224.6	3193.3	3149.2	2966.8
20°	3403.5	3400.0	3437.1	3444.1	3404.6	3368.6	3329.1	3278.0	3253.7	3225.8	3038.8
22.5°	3581.1	3564.9	3586.9	3580.0	3502.2	3446.4	3397.7	3334.9	3322.2	3309.4	3119.0
25°	3812.2	3802.9	3818.0	3749.5	3612.5	3537.0	3478.9	3408.1	3408.1	3420.9	3209.5
27.5°	4147.8	4112.9	4061.9	3941.1	3735.6	3639.2	3576.5	3501.0	3520.7	3568.3	3329.1
30°	4491.5	4453.2	4335.9	4150.1	3885.4	3784.3	3711.2	3632.2	3678.7	3765.8	3489.4
32.5°	4830.6	4787.6	4621.5	4387.0	4100.2	3999.2	3928.3	3841.2	3919.0	4065.3	3723.9
35°	5159.2	5120.9	4929.3	4652.9	4385.8	4302.2	4237.2	4161.7	4261.6	4465.9	4054.9
37.5°	5528.4	5486.6	5253.2	4953.7	4733.0	4672.6	4625.0	4549.6	4723.7	5023.3	4515.9
40°	5982.5	5911.6	5597.0	5298.5	5134.8	5105.8	5073.3	5062.8	5333.4	5747.9	5130.2
42.5°	6502.7	6386.6	5956.9	5662.0	5576.1	5597.0	5588.8	5635.3	6096.3	6649.0	5878.0
45°	7022.9	6873.1	6357.5	6049.8	6061.4	6134.6	6179.9	6365.7	7051.9	7682.5	6682.7
47.5°	7464.2	7316.7	6741.9	6469.0	6608.4	6752.3	6875.4	7227.3	8034.3	8699.7	7308.6
50°	7841.5	7702.2	7149.5	6930.0	7243.5	7475.8	7675.5	8196.9	9091.0	9474.2	7747.5
52.5°	8150.4	8057.5	7572.1	7458.3	7969.3	8309.5	8602.1	9226.8	10026.9	10103.5	8088.9
55°	8451.2	8385.0	8026.2	8086.6	8821.6	9284.9	9655.3	10319.5	10832.8	10628.4	8416.3
57.5°	8797.2	8736.8	8544.1	8883.1	9942.1	10525.1	10929.2	11288.0	11542.3	11164.9	8725.2
60°	9150.2	9115.4	9120.0	9768.0	11228.7	11788.4	12011.4	12104.3	12239.0	11670.0	8742.6
62.5°	9487.0	9553.1	9778.4	10752.7	12460.8	12890.4	13003.0	13094.8	12936.9	11750.1	8077.3
65°	10057.1	10165.1	10702.7	12070.6	13815.9	14275.7	14391.8	14077.1	13047.2	10714.3	6570.0
67.5°	10335.8	10533.2	11492.3	13299.1	15130.4	15641.3	15598.3	14141.0	11708.3	8170.2	4216.3
69°	10277.7	10487.9	11674.6	13675.4	15567.0	16030.3	15757.4	13359.5	9974.7	5918.6	2588.3
70°	10047.8	10260.3	11580.6	13661.4	15622.7	15989.6	15462.5	12394.6	8433.7	4327.8	1618.7
72.5°	8390.8	8574.3	10281.2	12348.1	14391.8	14093.4	12935.7	8587.0	4109.5	1178.6	364.6
75°	5165.0	5267.2	7377.1	9302.3	10869.9	10103.5	8618.4	4272.0	1225.1	333.3	202.0
77.5°	2728.8	2775.3	4038.6	5483.2	6890.5	5701.5	4417.2	1666.3	564.3	209.0	146.3
80°	1612.9	1647.7	2174.9	2507.0	2981.9	2490.8	1766.2	1023.0	404.1	131.2	130.1
82.5°	923.1	945.2	1576.9	1393.4	1175.1	1003.3	879.0	969.6	242.7	88.3	134.7
85°	339.1	343.7	887.2	1060.2	699.0	415.7	436.6	803.5	65.0	55.7	105.7
87.5°	157.9	154.4	456.3	649.1	408.7	263.6	340.2	176.5	25.5	36.0	29.0
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°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2879.8	2836.8	2759.0	2678.9	2597.6	2534.9	2473.3	2424.6	2408.3	2378.1	2380.4
5°	2791.5	2712.5	2550.0	2385.1	2213.2	2071.6	1938.0	1830.0	1777.8	1724.4	1724.4
7.5°	2714.9	2599.9	2345.6	2077.4	1799.8	1566.4	1356.3	1198.4	1111.3	1041.6	1040.4
10°	2685.8	2530.2	2174.9	1790.6	1403.9	1085.7	836.1	675.8	593.4	540.0	537.6
12.5°	2698.6	2505.9	2043.7	1525.8	1040.4	697.9	484.2	380.9	346.0	329.8	329.8
15°	2735.8	2498.9	1912.5	1266.9	735.0	436.6	321.7	293.8	291.5	291.5	291.5
17.5°	2781.1	2501.2	1777.8	1014.9	500.5	312.4	277.5	274.0	276.4	276.4	276.4
20°	2827.5	2502.4	1632.6	781.5	353.0	271.7	261.3	260.1	262.4	262.4	263.6
22.5°	2884.4	2508.2	1487.5	584.1	291.5	256.6	248.5	248.5	249.7	249.7	248.5
25°	2949.4	2519.8	1336.5	433.1	265.9	246.2	239.2	238.0	239.2	238.0	236.9
27.5°	3030.7	2536.0	1168.2	339.1	254.3	235.7	229.9	229.9	228.8	227.6	226.4
30°	3132.9	2554.6	978.9	288.0	242.7	226.4	220.6	219.5	218.3	216.0	216.0
32.5°	3288.5	2595.3	791.9	261.3	229.9	213.7	209.0	209.0	206.7	204.4	203.2
35°	3527.7	2675.4	624.7	245.0	216.0	199.7	193.9	193.9	191.6	190.4	189.3
37.5°	3858.6	2797.3	485.4	229.9	202.0	184.6	178.8	177.7	175.3	173.0	171.9
40°	4298.7	2948.3	382.0	216.0	188.1	169.5	164.9	162.6	157.9	154.4	154.4
42.5°	4851.5	3120.1	310.0	200.9	171.9	155.6	152.1	148.6	140.5	137.0	135.9
45°	5429.7	3274.6	262.4	183.5	155.6	141.7	139.3	133.5	123.1	119.6	119.6
47.5°	5846.6	3310.6	231.1	167.2	140.5	126.6	125.4	115.0	105.7	103.3	102.2
50°	6106.7	3239.7	205.5	151.0	126.6	112.6	109.2	96.4	90.6	88.3	87.1
52.5°	6282.1	3113.2	184.6	137.0	113.8	99.9	91.7	82.4	77.8	75.5	75.5
55°	6422.6	2934.3	163.7	124.2	103.3	89.4	77.8	70.8	66.2	63.9	63.9
57.5°	6462.0	2691.6	142.8	113.8	92.9	79.0	66.2	61.5	55.7	54.6	54.6
60°	6175.2	2253.9	126.6	101.0	83.6	68.5	58.1	52.3	46.4	45.3	44.1
62.5°	5419.3	1744.1	111.5	89.4	73.2	59.2	49.9	43.0	38.3	38.3	38.3
65°	4133.8	1169.3	97.5	77.8	63.9	49.9	43.0	34.8	32.5	32.5	33.7
67.5°	2474.5	636.3	83.6	66.2	54.6	41.8	36.0	30.2	29.0	30.2	30.2
69°	1450.3	373.9	75.5	59.2	47.6	37.2	31.4	26.7	29.0	30.2	30.2
70°	895.3	252.0	69.7	53.4	43.0	33.7	29.0	25.5	27.9	29.0	29.0
72.5°	249.7	130.1	55.7	41.8	34.8	27.9	23.2	23.2	26.7	27.9	27.9
75°	162.6	96.4	43.0	31.4	26.7	22.1	19.7	22.1	25.5	26.7	26.7
77.5°	134.7	79.0	34.8	25.5	22.1	20.9	18.6	19.7	23.2	24.4	24.4
80°	123.1	55.7	27.9	23.2	19.7	18.6	17.4	16.3	20.9	22.1	22.1
82.5°	117.3	44.1	24.4	20.9	18.6	16.3	15.1	16.3	18.6	19.7	20.9
85°	73.2	29.0	22.1	19.7	16.3	15.1	15.1	15.1	17.4	18.6	18.6
87.5°	26.7	23.2	19.7	16.3	13.9	13.9	13.9	13.9	15.1	17.4	17.4
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)