

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: P191043

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20365.9 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

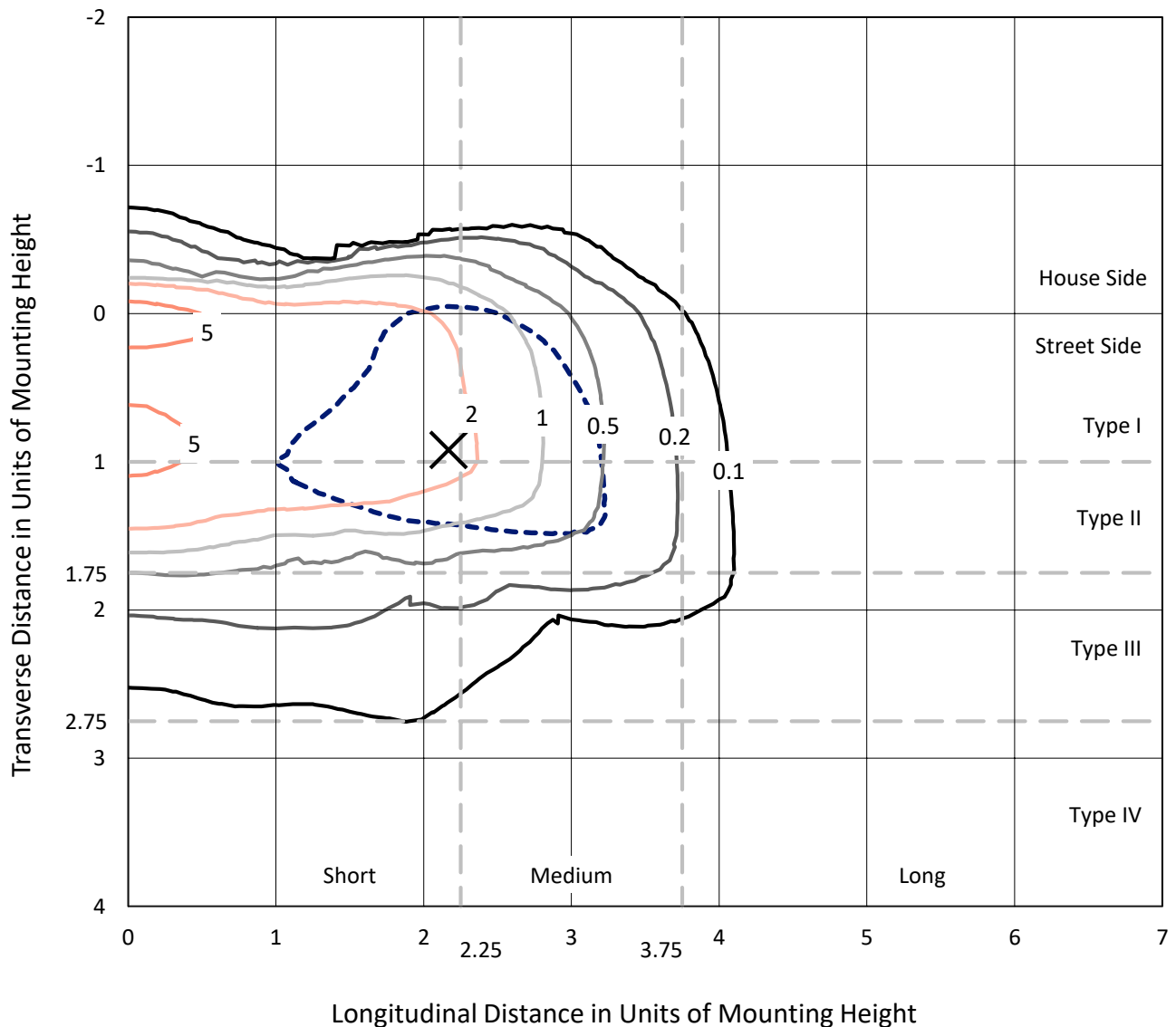


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Iso-Footcandle Lines of Horizontal Illumination

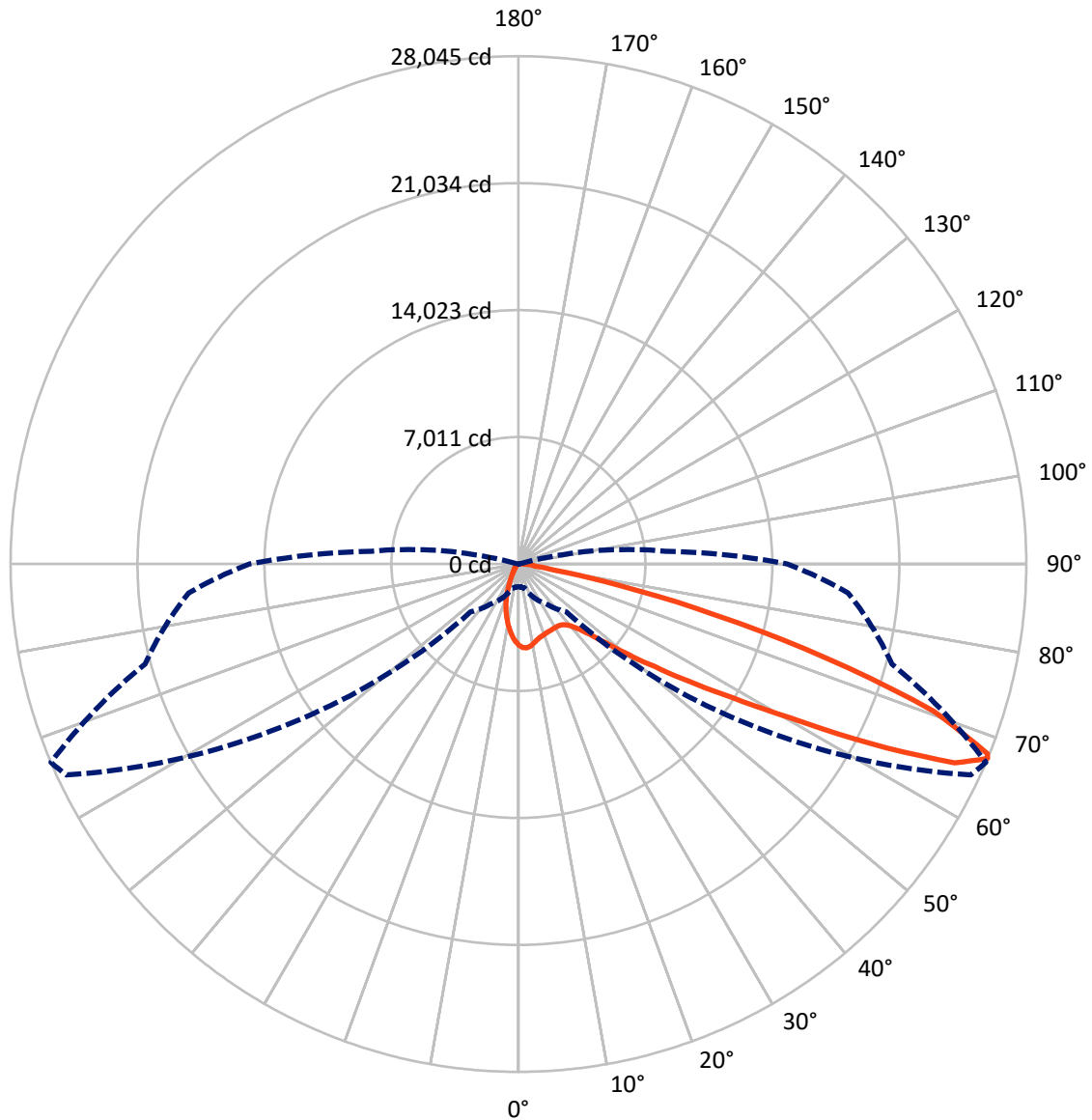
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2114.6	0.0	2114.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18251.3	0.0	18251.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	20365.9	0.0	20365.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.5	1.8
10°-20°	777.8	3.8
20°-30°	1130.9	5.6
30°-40°	1764.3	8.7
40°-50°	3125.3	15.3
50°-60°	4945.5	24.3
60°-70°	5664.4	27.8
70°-80°	2349.6	11.5
80°-90°	242.7	1.2
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°	20365.9	100.0
0°-180°	20365.9	100.0



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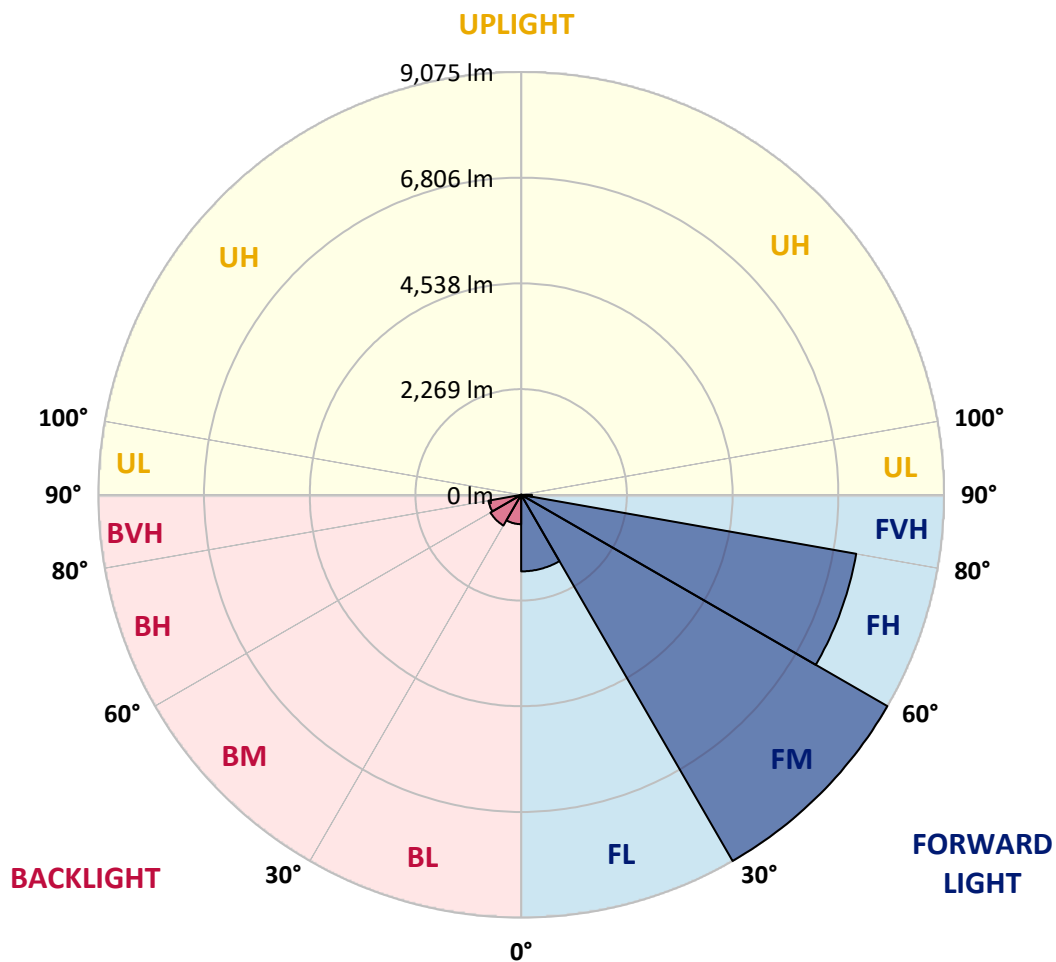
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.2	8.1			
FM	(30°-60°)	9075.1	44.6			
FH	(60°-80°)	7301.2	35.9			G3/7500
FVH	(80°-90°)	231.8	1.1			G3/500
BL	(0°-30°)	631.0	3.1	B2/1000		
BM	(30°-60°)	760.0	3.7	B1/1000		
BH	(60°-80°)	712.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5
2.5°	4643.5	4653.0	4651.8	4658.9	4675.6	4676.7	4660.2	4628.0	4620.9	4579.3	4506.9
5°	4282.4	4309.7	4326.4	4394.0	4470.1	4561.5	4630.4	4655.3	4651.8	4622.1	4512.8
7.5°	3870.1	3897.4	3916.5	3996.1	4097.0	4253.8	4433.3	4580.6	4593.6	4625.7	4508.0
10°	3595.8	3600.5	3626.7	3702.7	3808.4	3968.7	4182.5	4440.3	4479.6	4597.1	4496.2
12.5°	3370.1	3373.6	3408.1	3490.0	3602.9	3764.5	3989.0	4287.1	4347.7	4561.5	4493.8
15°	3209.7	3222.8	3253.7	3339.2	3459.1	3619.5	3850.0	4174.3	4246.8	4548.4	4515.2
17.5°	3156.2	3170.5	3180.0	3241.7	3351.1	3507.9	3744.2	4100.6	4182.5	4555.6	4556.7
20°	3212.1	3222.8	3201.4	3216.9	3284.5	3424.7	3655.2	4037.7	4135.1	4563.9	4610.2
22.5°	3419.9	3424.7	3366.5	3298.8	3286.9	3364.1	3585.0	3987.8	4092.3	4586.5	4673.1
25°	3776.3	3768.0	3673.0	3526.8	3389.0	3353.4	3543.5	3956.9	4070.9	4610.2	4738.5
27.5°	4206.4	4218.2	4087.5	3874.9	3612.3	3424.7	3537.6	3943.8	4061.4	4626.9	4795.5
30°	4729.0	4745.7	4596.0	4328.7	3952.2	3600.5	3592.2	3941.4	4055.5	4616.2	4800.3
32.5°	5262.4	5282.6	5165.0	4889.4	4406.0	3895.1	3715.8	3967.6	4067.4	4579.3	4773.0
35°	5820.7	5849.2	5770.8	5534.4	5021.3	4320.4	3933.1	4047.2	4123.2	4575.8	4745.7
37.5°	6591.7	6617.8	6470.5	6219.8	5766.1	4890.5	4282.4	4196.9	4255.1	4632.8	4752.7
40°	7742.7	7739.1	7359.0	6975.3	6584.5	5615.2	4773.0	4467.6	4497.4	4805.0	4840.7
42.5°	8997.2	8991.2	8429.3	7846.0	7493.2	6507.3	5418.0	4935.7	4915.5	5122.2	5068.7
45°	9964.1	9962.9	9504.3	8847.5	8587.3	7531.3	6251.9	5586.6	5555.7	5637.8	5489.3
47.5°	10376.3	10383.4	10153.0	9690.8	9800.2	8916.3	7303.2	6529.9	6483.6	6450.3	6224.6
50°	10055.5	10069.8	10088.9	9998.5	10689.8	10777.8	8713.2	7859.1	7836.5	7688.1	7335.3
52.5°	9007.8	9080.3	9303.6	9589.9	10998.8	12564.4	10923.9	9510.3	9389.2	9231.1	8842.7
55°	7242.6	7322.2	7746.3	8441.2	10539.1	13738.0	14021.9	11639.0	11437.1	10965.5	10404.8
57.5°	4793.1	4916.7	5532.0	6415.8	9203.8	13926.9	17112.8	14593.3	13890.0	12598.9	11966.9
60°	2640.6	2759.5	3427.1	4227.8	6647.4	12993.2	19191.7	18439.7	17197.2	14424.6	13864.0
62.5°	1626.2	1690.4	2183.4	2928.2	3986.5	10255.1	19621.7	23273.3	21834.8	16775.5	16155.4
65°	1294.9	1322.2	1563.3	2393.6	2858.1	6099.9	18233.1	26958.1	26478.3	19621.7	18206.9
67°	1256.8	1267.4	1381.5	2055.1	2694.1	3739.5	15275.2	27558.0	28045.0	21344.2	18271.0
67.5°	1265.1	1276.9	1385.1	1961.2	2689.4	3436.6	14255.9	27321.6	27937.0	21480.7	17987.2
70°	1220.0	1256.8	1585.9	1960.1	2557.6	2855.7	8537.4	23672.4	24312.7	19959.0	15262.1
72.5°	432.4	434.8	685.4	1585.9	2780.9	2886.6	4287.1	17354.0	17828.0	15268.1	11003.5
75°	256.6	218.6	228.1	451.4	2657.3	2803.4	2473.2	11089.0	11266.1	8748.9	5572.4
77.5°	177.0	154.5	159.2	199.6	1012.1	2764.2	1964.8	5782.6	5593.8	3068.3	1186.7
80°	101.0	89.1	95.0	174.6	368.3	2579.0	1853.1	2344.9	1999.3	520.3	327.9
82.5°	53.5	45.1	54.6	143.7	256.6	1607.3	1856.7	1133.2	898.0	175.8	223.3
85°	19.0	15.4	26.1	98.6	171.0	493.0	1721.2	952.7	748.4	85.5	169.9
87.5°	3.6	3.6	10.7	40.4	68.9	150.9	1018.0	565.5	378.9	51.0	116.4
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°	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5	4491.5
2.5°	4477.1	4426.1	4357.2	4272.9	4173.1	4085.2	4019.9	3952.2	3937.8	3914.1	3910.5
5°	4447.5	4359.6	4188.6	3992.5	3783.5	3594.5	3441.3	3304.7	3244.2	3191.9	3186.0
7.5°	4403.5	4271.6	3980.6	3664.6	3338.0	3041.0	2789.2	2611.0	2447.1	2368.6	2356.8
10°	4352.5	4163.6	3746.7	3308.3	2856.9	2437.6	2063.4	1749.8	1559.7	1446.9	1432.6
12.5°	4305.0	4057.8	3507.9	2938.8	2339.0	1778.3	1297.2	997.8	798.3	717.5	708.0
15°	4282.4	3972.3	3284.5	2561.1	1797.3	1132.1	709.2	548.8	483.4	464.4	463.3
17.5°	4280.0	3899.9	3066.0	2170.3	1259.2	658.1	462.1	421.7	408.7	403.9	403.9
20°	4278.8	3831.0	2847.4	1765.2	799.4	438.3	384.8	375.4	365.9	360.0	360.0
22.5°	4291.9	3769.2	2619.3	1351.8	503.7	355.2	338.6	329.1	317.2	308.8	307.7
25°	4305.0	3721.7	2386.4	962.2	364.7	308.8	292.3	279.2	262.5	251.9	250.6
27.5°	4307.3	3662.3	2137.0	643.8	305.2	269.6	248.3	228.1	209.1	198.4	197.2
30°	4271.6	3562.5	1860.2	434.8	269.6	234.1	205.5	184.1	166.3	157.9	157.9
32.5°	4201.6	3439.0	1556.1	327.9	240.0	200.8	169.9	149.7	137.8	134.2	133.1
35°	4138.7	3305.9	1243.7	277.9	215.0	169.9	139.0	125.9	118.8	117.6	116.4
37.5°	4101.8	3199.0	950.3	251.9	191.3	142.5	117.6	108.1	104.5	102.2	103.3
40°	4130.4	3109.9	702.1	230.5	167.5	118.8	99.7	95.0	91.5	90.3	90.3
42.5°	4255.1	3094.4	521.5	211.4	145.0	98.6	86.7	83.2	80.8	79.6	80.8
45°	4582.9	3189.5	405.1	193.6	122.3	83.2	73.7	72.4	71.3	71.3	71.3
47.5°	5075.9	3385.6	337.4	173.4	102.2	71.3	64.1	62.9	61.8	62.9	62.9
50°	5911.0	3744.2	301.8	153.2	84.3	60.6	54.6	54.6	54.6	54.6	55.9
52.5°	7180.8	4449.8	277.9	133.1	68.9	51.0	46.3	46.3	47.5	47.5	48.7
55°	8595.7	5385.9	256.6	112.8	58.2	42.8	38.1	39.2	40.4	41.5	41.5
57.5°	10130.4	6423.0	238.8	92.7	49.9	34.5	32.1	33.2	34.5	36.8	36.8
60°	11982.3	7545.5	212.7	72.4	41.5	27.3	25.0	27.3	30.9	33.2	34.5
62.5°	14016.0	8631.2	179.3	57.0	34.5	21.4	20.2	25.0	29.7	32.1	33.2
65°	15405.8	8972.2	137.8	46.3	26.1	15.4	16.7	22.6	28.5	32.1	32.1
67°	14842.8	8134.7	112.8	39.2	21.4	11.9	15.4	22.6	28.5	30.9	32.1
67.5°	14451.9	7806.9	108.1	38.1	20.2	11.9	15.4	22.6	28.5	32.1	32.1
70°	11759.0	5864.7	90.3	28.5	16.7	10.7	13.1	21.4	27.3	30.9	30.9
72.5°	8170.3	3615.9	80.8	20.2	14.2	9.5	11.9	20.2	26.1	29.7	30.9
75°	3884.5	1309.1	68.9	15.4	13.1	8.3	10.7	20.2	26.1	29.7	29.7
77.5°	792.4	304.1	55.9	13.1	10.7	8.3	9.5	19.0	25.0	28.5	28.5
80°	260.1	117.6	41.5	11.9	10.7	8.3	9.5	17.8	25.0	27.3	28.5
82.5°	187.7	59.4	27.3	11.9	10.7	8.3	8.3	17.8	23.7	27.3	27.3
85°	143.7	41.5	17.8	11.9	10.7	8.3	8.3	16.7	22.6	26.1	26.1
87.5°	95.0	16.7	14.2	11.9	10.7	8.3	8.3	16.7	21.4	25.0	26.1
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)