

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: P191853

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191853
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-SL2-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA 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: 24642 lumens
Efficiency: N/A
Efficacy: 88.3 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 - G4

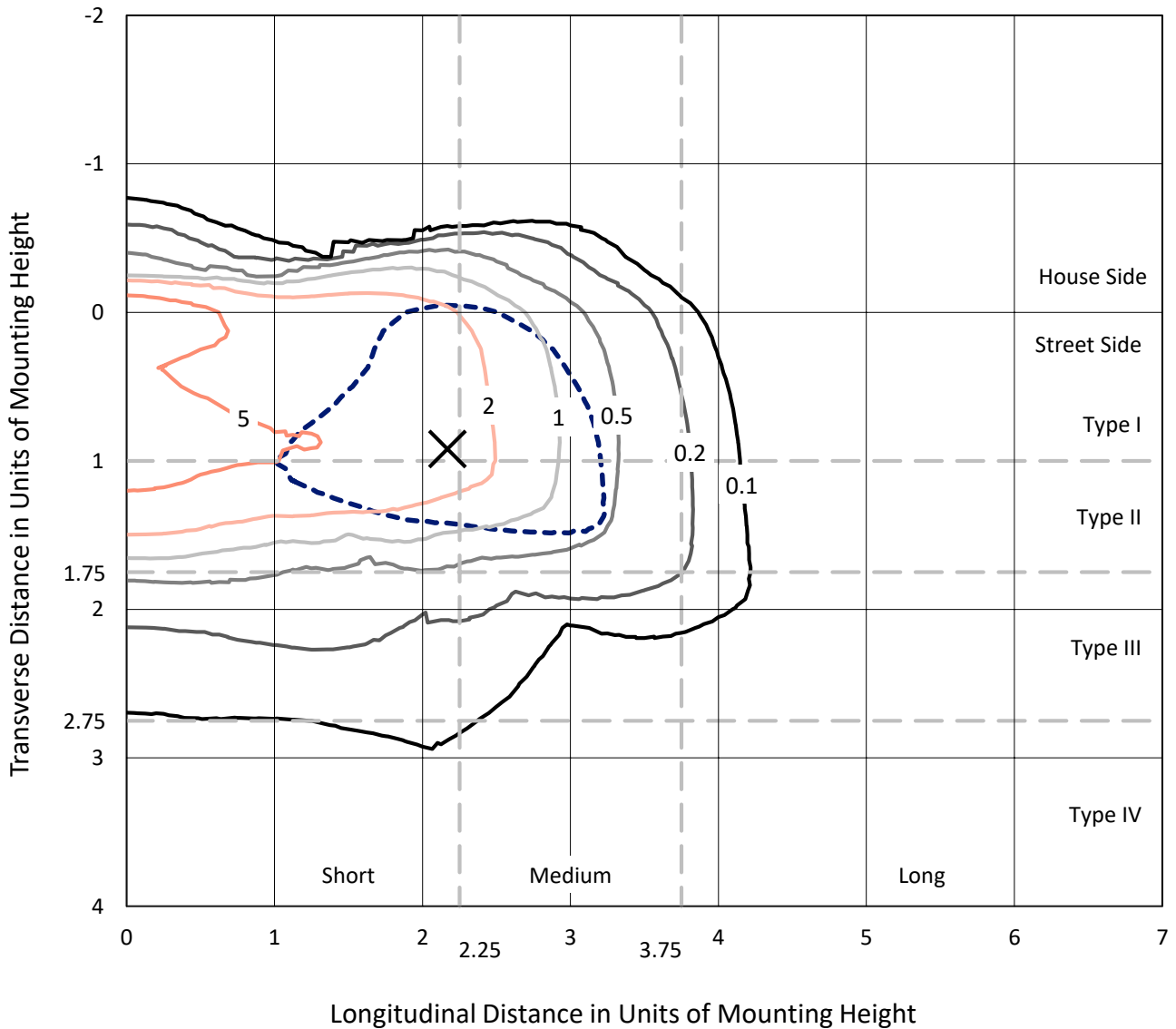
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

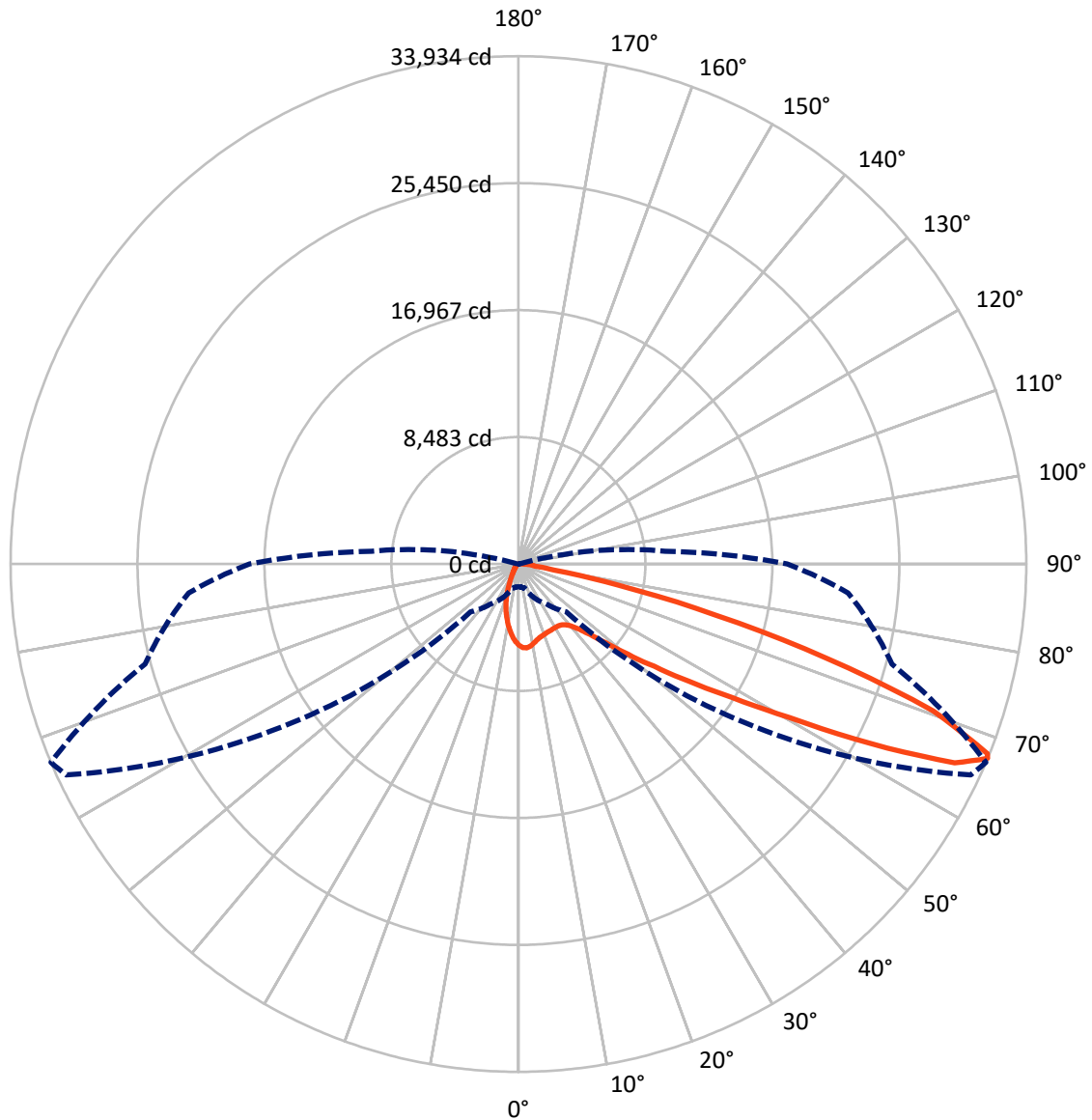
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2558.6	0.0	2558.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22083.4	0.0	22083.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	24642.0	0.0	24642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.8
10°-20°	941.2	3.8
20°-30°	1368.4	5.6
30°-40°	2134.7	8.7
40°-50°	3781.5	15.3
50°-60°	5983.9	24.3
60°-70°	6853.7	27.8
70°-80°	2842.9	11.5
80°-90°	293.7	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°	24642.0	100.0
0°-180°	24642.0	100.0

Coefficient of Utilization



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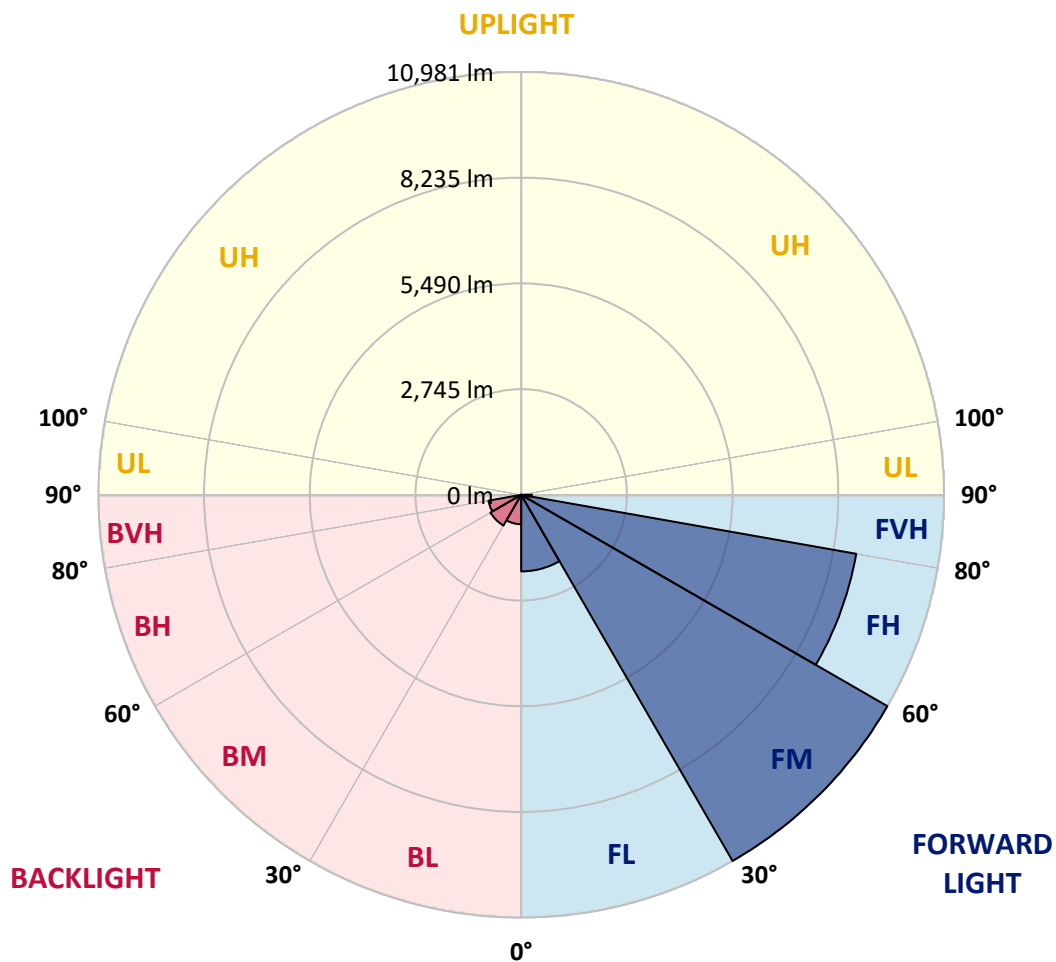
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.2	8.1			
FM (30°-60°)	10980.5	44.6			
FH (60°-80°)	8834.2	35.9			G4/12000
FVH (80°-90°)	280.4	1.1			G3/500
BL (0°-30°)	763.5	3.1	B2/1000		
BM (30°-60°)	919.5	3.7	B1/1000		
BH (60°-80°)	862.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5
2.5°	5618.4	5629.9	5628.5	5637.1	5657.3	5658.7	5638.6	5599.8	5591.1	5540.8	5453.2
5°	5181.5	5214.6	5234.7	5316.6	5408.6	5519.3	5602.6	5632.8	5628.5	5592.6	5460.3
7.5°	4682.8	4715.8	4738.8	4835.1	4957.3	5147.0	5364.0	5542.3	5558.1	5596.9	5454.6
10°	4350.7	4356.5	4388.1	4480.1	4608.0	4802.1	5060.8	5372.7	5420.1	5562.4	5440.2
12.5°	4077.6	4082.0	4123.6	4222.8	4359.4	4554.8	4826.5	5187.3	5260.6	5519.3	5437.3
15°	3883.6	3899.4	3936.8	4040.3	4185.4	4379.5	4658.3	5050.7	5138.4	5503.5	5463.2
17.5°	3818.9	3836.2	3847.7	3922.4	4054.7	4244.4	4530.4	4961.6	5060.8	5512.1	5513.5
20°	3886.5	3899.4	3873.6	3892.2	3974.2	4143.8	4422.6	4885.4	5003.3	5522.1	5578.2
22.5°	4138.0	4143.8	4073.3	3991.4	3977.0	4070.5	4337.8	4825.1	4951.5	5549.5	5654.4
25°	4569.2	4559.1	4444.2	4267.4	4100.6	4057.5	4287.5	4787.7	4925.7	5578.2	5733.4
27.5°	5089.5	5103.9	4945.8	4688.5	4370.9	4143.8	4280.3	4771.9	4914.2	5598.3	5802.4
30°	5721.9	5742.1	5561.0	5237.6	4781.9	4356.5	4346.4	4769.0	4907.0	5585.4	5808.2
32.5°	6367.3	6391.7	6249.4	5916.0	5331.0	4712.9	4495.9	4800.6	4921.4	5540.8	5775.1
35°	7042.8	7077.3	6982.5	6696.4	6075.5	5227.5	4758.9	4896.9	4988.9	5536.5	5742.1
37.5°	7975.6	8007.3	7829.0	7525.8	6976.7	5917.4	5181.5	5078.0	5148.4	5605.5	5750.7
40°	9368.4	9364.1	8904.1	8439.9	7967.0	6794.2	5775.1	5405.7	5441.7	5813.9	5857.0
42.5°	10886.2	10879.0	10199.2	9493.4	9066.6	7873.6	6555.6	5972.0	5947.6	6197.7	6133.0
45°	12056.2	12054.7	11499.9	10705.1	10390.3	9112.5	7564.6	6759.7	6722.3	6821.5	6641.8
47.5°	12554.9	12563.5	12284.7	11725.6	11857.8	10788.5	8836.6	7900.9	7844.8	7804.6	7531.5
50°	12166.8	12184.1	12207.1	12097.8	12934.4	13040.7	10542.7	9509.2	9481.9	9302.3	8875.4
52.5°	10899.1	10986.8	11257.0	11603.4	13308.1	15202.4	13217.5	11507.1	11360.5	11169.3	10699.3
55°	8763.3	8859.6	9372.7	10213.5	12751.8	16622.5	16966.0	14082.8	13838.4	13267.8	12589.4
57.5°	5799.5	5949.0	6693.6	7762.9	11136.3	16851.0	20705.9	17657.4	16806.5	15244.1	14479.5
60°	3195.1	3338.9	4146.6	5115.4	8043.2	15721.3	23221.2	22311.4	20807.9	17453.3	16774.9
62.5°	1967.7	2045.3	2641.8	3543.0	4823.6	12408.3	23741.5	28159.8	26419.2	20297.7	19547.4
65°	1566.7	1599.7	1891.5	2896.2	3458.2	7380.6	22061.3	32618.3	32037.7	23741.5	22029.7
67°	1520.7	1533.6	1671.6	2486.5	3259.8	4524.7	18482.4	33344.2	33933.5	25825.6	22107.3
67.5°	1530.7	1545.1	1675.9	2373.0	3254.1	4158.1	17249.2	33058.1	33802.7	25990.9	21763.8
70°	1476.1	1520.7	1918.8	2371.6	3094.5	3455.3	10330.0	28642.7	29417.4	24149.7	18466.6
72.5°	523.2	526.1	829.3	1918.8	3364.7	3492.7	5187.3	20997.7	21571.2	18473.8	13313.8
75°	310.5	264.5	276.0	546.2	3215.3	3392.1	2992.5	13417.3	13631.5	10585.8	6742.4
77.5°	214.2	186.9	192.6	241.5	1224.6	3344.6	2377.3	6996.8	6768.3	3712.6	1435.9
80°	122.2	107.8	115.0	211.3	445.6	3120.4	2242.2	2837.3	2419.0	629.5	396.7
82.5°	64.7	54.6	66.1	173.9	310.5	1944.7	2246.5	1371.2	1086.6	212.7	270.2
85°	23.0	18.7	31.6	119.3	207.0	596.5	2082.7	1152.7	905.5	103.5	205.5
87.5°	4.3	4.3	12.9	48.9	83.4	182.5	1231.8	684.2	458.5	61.8	140.9
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°	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5	5434.5
2.5°	5417.2	5355.4	5272.1	5170.0	5049.3	4942.9	4863.9	4781.9	4764.7	4735.9	4731.6
5°	5381.3	5274.9	5068.0	4830.8	4577.8	4349.3	4163.9	3998.6	3925.3	3862.1	3854.9
7.5°	5328.1	5168.6	4816.4	4434.1	4038.8	3679.5	3374.8	3159.2	2960.9	2866.0	2851.6
10°	5266.3	5037.8	4533.3	4002.9	3456.7	2949.4	2496.6	2117.2	1887.2	1750.6	1733.4
12.5°	5208.8	4909.9	4244.4	3555.9	2830.1	2151.7	1569.5	1207.3	965.9	868.1	856.6
15°	5181.5	4806.4	3974.2	3098.8	2174.7	1369.8	858.1	664.0	585.0	562.0	560.6
17.5°	5178.6	4718.7	3709.7	2626.0	1523.5	796.3	559.1	510.2	494.4	488.7	488.7
20°	5177.2	4635.3	3445.2	2135.8	967.3	530.4	465.7	454.2	442.7	435.5	435.5
22.5°	5193.0	4560.6	3169.3	1635.7	609.4	429.8	409.6	398.1	383.8	373.7	372.3
25°	5208.8	4503.1	2887.6	1164.2	441.3	373.7	353.6	337.8	317.6	304.7	303.3
27.5°	5211.7	4431.2	2585.7	779.0	369.4	326.3	300.4	276.0	253.0	240.0	238.6
30°	5168.6	4310.5	2250.8	526.1	326.3	283.2	248.7	222.8	201.2	191.2	191.2
32.5°	5083.8	4161.0	1882.9	396.7	290.3	242.9	205.5	181.1	166.7	162.4	161.0
35°	5007.6	4000.0	1504.9	336.3	260.2	205.5	168.2	152.4	143.7	142.3	140.9
37.5°	4963.0	3870.7	1149.8	304.7	231.4	172.5	142.3	130.8	126.5	123.6	125.0
40°	4997.5	3762.9	849.5	278.8	202.7	143.7	120.7	115.0	110.7	109.2	109.2
42.5°	5148.4	3744.2	631.0	255.8	175.4	119.3	104.9	100.6	97.7	96.3	97.7
45°	5545.1	3859.2	490.1	234.3	148.0	100.6	89.1	87.7	86.2	86.2	86.2
47.5°	6141.6	4096.3	408.2	209.8	123.6	86.2	77.6	76.2	74.7	76.2	76.2
50°	7152.1	4530.4	365.1	185.4	102.0	73.3	66.1	66.1	66.1	66.1	67.6
52.5°	8688.5	5384.2	336.3	161.0	83.4	61.8	56.1	56.1	57.5	57.5	58.9
55°	10400.4	6516.8	310.5	136.5	70.4	51.7	46.0	47.4	48.9	50.3	50.3
57.5°	12257.4	7771.5	288.9	112.1	60.4	41.7	38.8	40.2	41.7	44.6	44.6
60°	14498.2	9129.8	257.3	87.7	50.3	33.1	30.2	33.1	37.4	40.2	41.7
62.5°	16958.8	10443.5	217.0	69.0	41.7	25.9	24.4	30.2	35.9	38.8	40.2
65°	18640.5	10856.0	166.7	56.1	31.6	18.7	20.1	27.3	34.5	38.8	38.8
67°	17959.2	9842.7	136.5	47.4	25.9	14.4	18.7	27.3	34.5	37.4	38.8
67.5°	17486.3	9446.0	130.8	46.0	24.4	14.4	18.7	27.3	34.5	38.8	38.8
70°	14227.9	7096.0	109.2	34.5	20.1	12.9	15.8	25.9	33.1	37.4	37.4
72.5°	9885.8	4375.2	97.7	24.4	17.2	11.5	14.4	24.4	31.6	35.9	37.4
75°	4700.0	1583.9	83.4	18.7	15.8	10.1	12.9	24.4	31.6	35.9	35.9
77.5°	958.7	368.0	67.6	15.8	12.9	10.1	11.5	23.0	30.2	34.5	34.5
80°	314.8	142.3	50.3	14.4	12.9	10.1	11.5	21.6	30.2	33.1	34.5
82.5°	227.1	71.9	33.1	14.4	12.9	10.1	10.1	21.6	28.7	33.1	33.1
85°	173.9	50.3	21.6	14.4	12.9	10.1	10.1	20.1	27.3	31.6	31.6
87.5°	115.0	20.1	17.2	14.4	12.9	10.1	10.1	20.1	25.9	30.2	31.6
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)