

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: P193585

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193585
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-07-LED-E1-SL2-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 22991 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

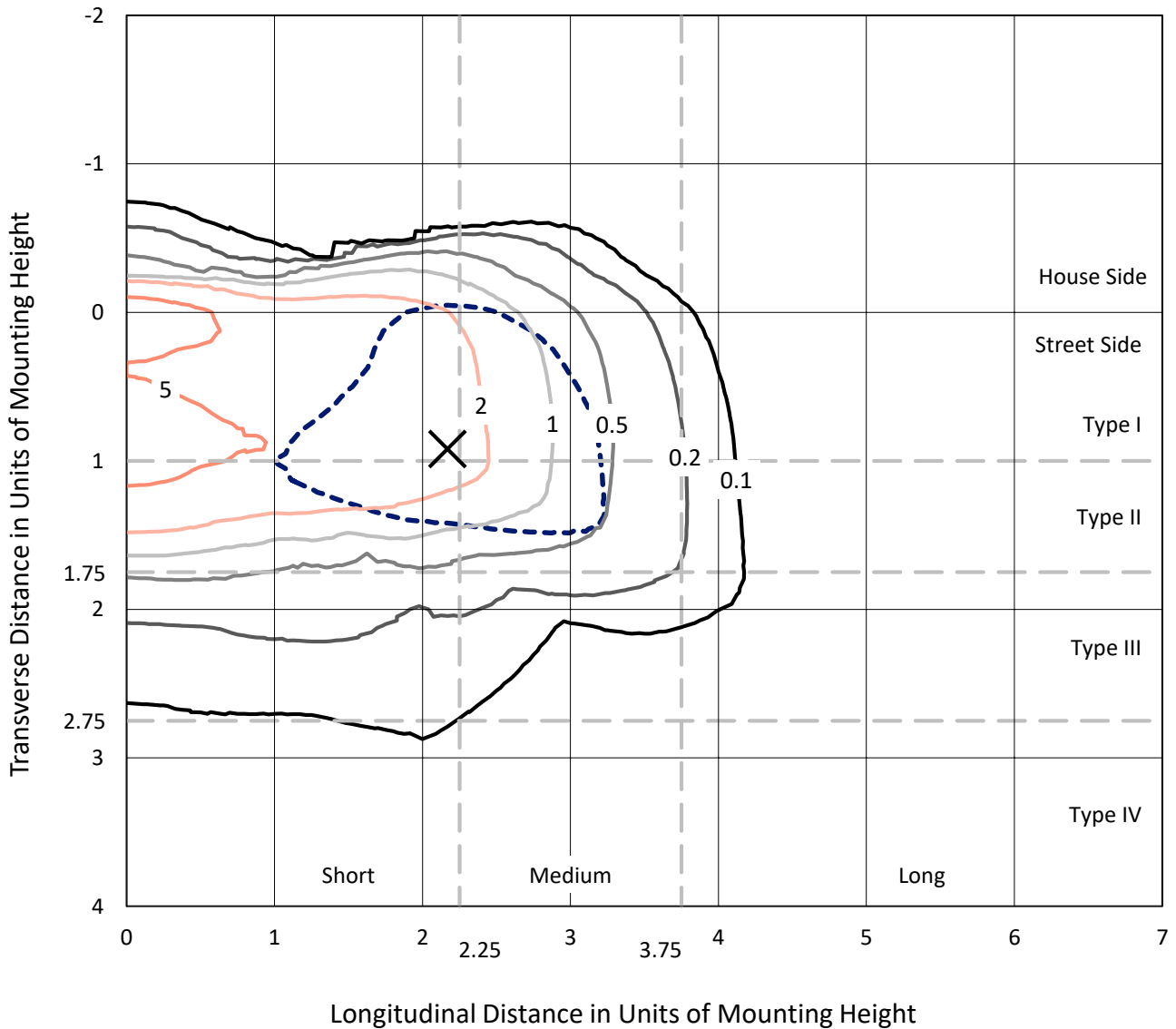


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

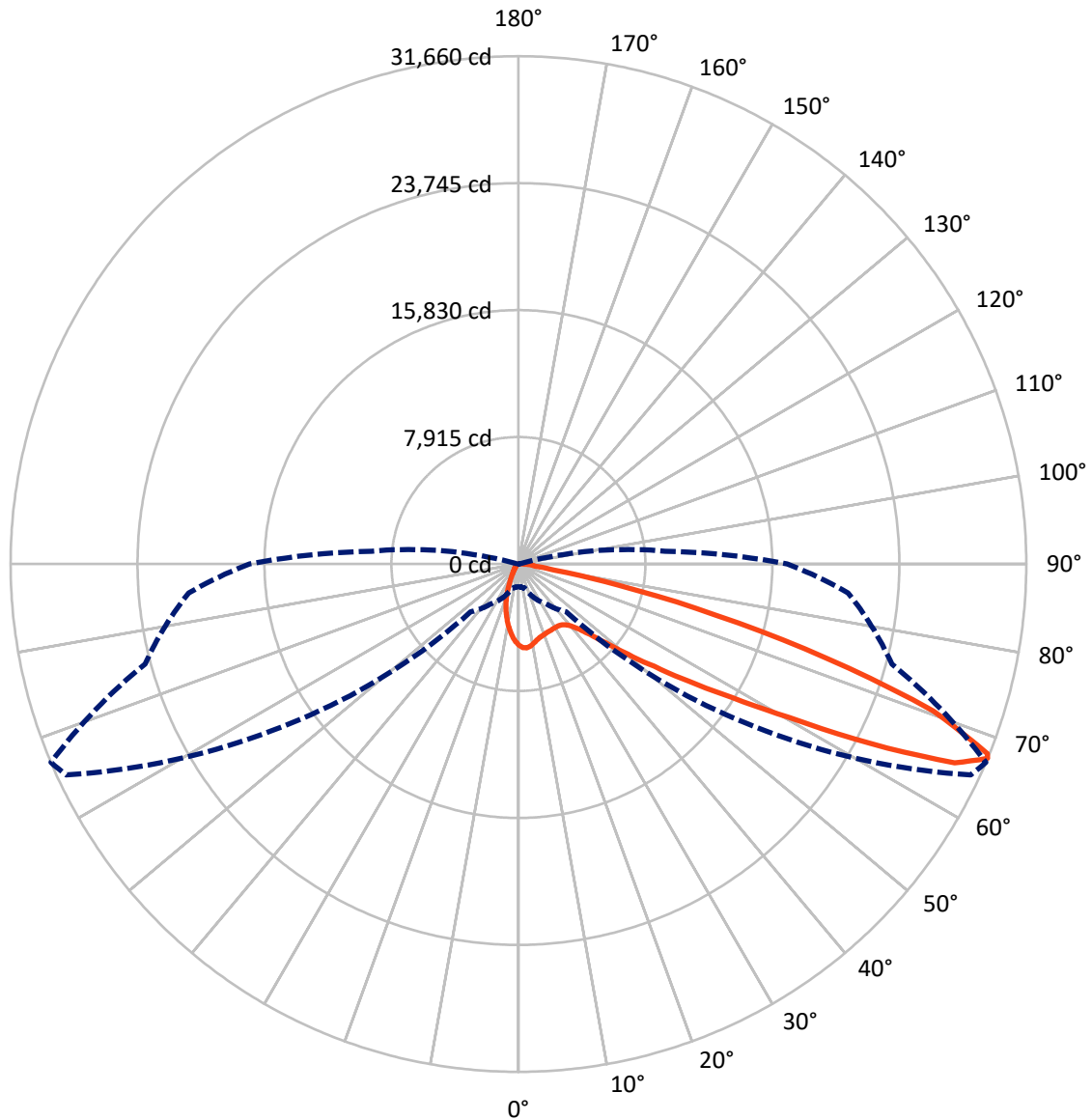


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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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	2387.2	0.0	2387.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20603.8	0.0	20603.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	22991.0	0.0	22991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	1.8
10°-20°	878.1	3.8
20°-30°	1276.7	5.6
30°-40°	1991.7	8.7
40°-50°	3528.2	15.3
50°-60°	5583.0	24.3
60°-70°	6394.5	27.8
70°-80°	2652.4	11.5
80°-90°	274.0	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°	22991.0	100.0
0°-180°	22991.0	100.0

Coefficient of Utilization



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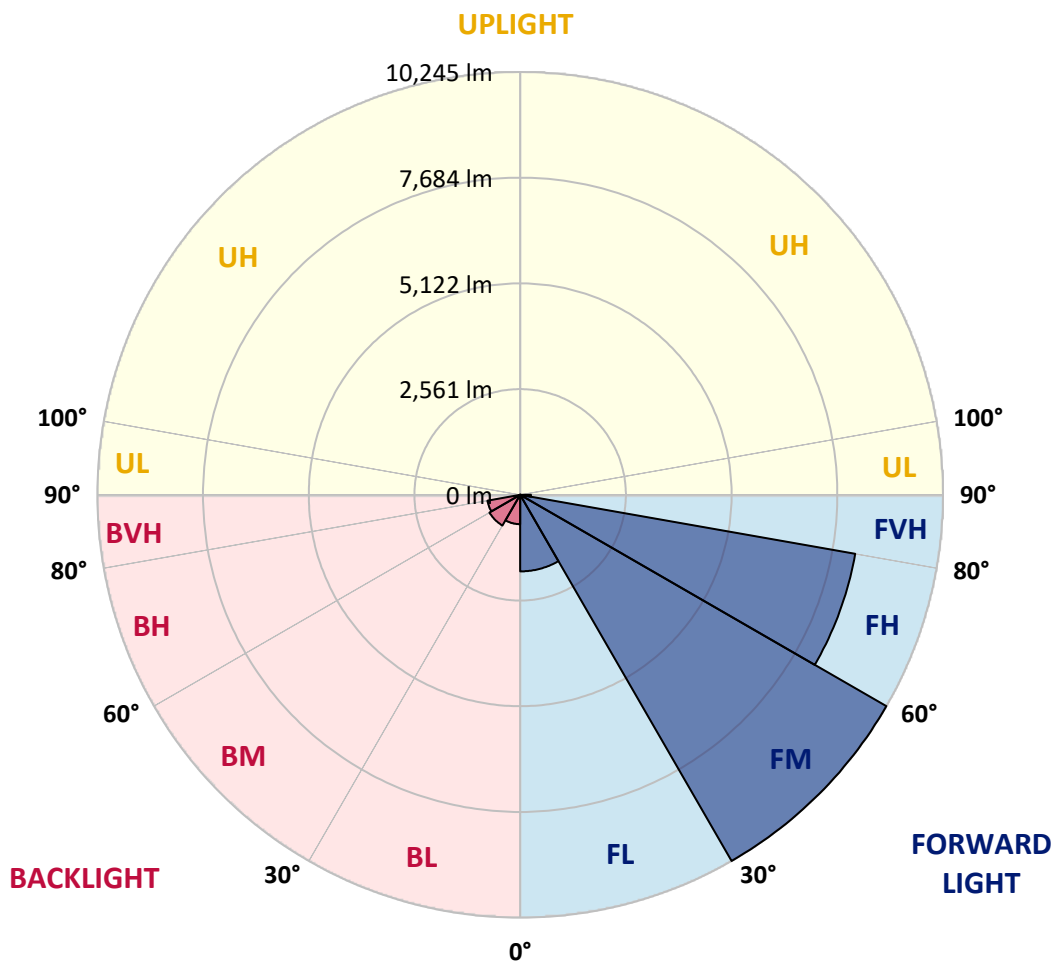
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.0	8.1			
FM (30°-60°)	10244.8	44.6			
FH (60°-80°)	8242.3	35.9			G4/12000
FVH (80°-90°)	261.6	1.1			G3/500
BL (0°-30°)	712.3	3.1	B2/1000		
BM (30°-60°)	857.9	3.7	B1/1000		
BH (60°-80°)	804.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.3	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°	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4
2.5°	5242.0	5252.7	5251.4	5259.4	5278.2	5279.6	5260.8	5224.6	5216.5	5169.6	5087.8
5°	4834.3	4865.2	4884.0	4960.4	5046.2	5149.5	5227.3	5255.4	5251.4	5217.9	5094.5
7.5°	4369.0	4399.9	4421.3	4511.2	4625.1	4802.2	5004.7	5170.9	5185.7	5221.9	5089.1
10°	4059.2	4064.6	4094.1	4179.9	4299.3	4480.3	4721.7	5012.7	5057.0	5189.7	5075.7
12.5°	3804.4	3808.5	3847.4	3939.9	4067.3	4249.7	4503.1	4839.7	4908.1	5149.5	5073.0
15°	3623.4	3638.2	3673.0	3769.6	3905.0	4086.1	4346.2	4712.3	4794.1	5134.7	5097.2
17.5°	3563.1	3579.2	3589.9	3659.6	3783.0	3960.0	4226.9	4629.2	4721.7	5142.8	5144.1
20°	3626.1	3638.2	3614.0	3631.5	3707.9	3866.1	4126.3	4558.1	4668.1	5152.2	5204.5
22.5°	3860.8	3866.1	3800.4	3724.0	3710.6	3797.7	4047.2	4501.8	4619.8	5177.6	5275.5
25°	4263.1	4253.7	4146.4	3981.5	3825.9	3785.7	4000.2	4466.9	4595.6	5204.5	5349.3
27.5°	4748.5	4761.9	4614.4	4374.4	4078.0	3866.1	3993.5	4452.2	4584.9	5223.2	5413.7
30°	5338.6	5357.3	5188.4	4886.6	4461.5	4064.6	4055.2	4449.5	4578.2	5211.2	5419.0
32.5°	5940.7	5963.5	5830.7	5519.6	4973.8	4397.2	4194.7	4479.0	4591.6	5169.6	5388.2
35°	6571.0	6603.1	6514.6	6247.8	5668.5	4877.3	4440.1	4568.8	4654.7	5165.6	5357.3
37.5°	7441.3	7470.8	7304.5	7021.5	6509.3	5520.9	4834.3	4737.8	4803.5	5229.9	5365.4
40°	8740.7	8736.7	8307.6	7874.4	7433.2	6339.0	5388.2	5043.5	5077.1	5424.4	5464.6
42.5°	10156.8	10150.1	9515.8	8857.4	8459.1	7346.1	6116.4	5571.9	5549.1	5782.4	5722.1
45°	11248.4	11247.1	10729.4	9987.9	9694.2	8502.0	7057.7	6306.8	6271.9	6364.4	6196.8
47.5°	11713.7	11721.8	11461.6	10940.0	11063.3	10065.6	8244.5	7371.5	7319.2	7281.7	7026.9
50°	11351.7	11367.8	11389.2	11287.3	12067.8	12167.0	9836.3	8872.1	8846.7	8679.0	8280.7
52.5°	10168.9	10250.7	10502.8	10826.0	12416.4	14183.9	12331.9	10736.1	10599.4	10421.0	9982.5
55°	8176.1	8266.0	8744.7	9529.2	11897.5	15508.8	15829.3	13139.2	12911.3	12378.9	11745.9
57.5°	5411.0	5550.4	6245.1	7242.8	10390.2	15722.0	19318.6	16474.3	15680.4	14222.8	13509.4
60°	2981.1	3115.2	3868.8	4772.7	7504.3	14668.0	21665.4	20816.5	19413.8	16283.9	15650.9
62.5°	1835.8	1908.3	2464.8	3305.6	4500.4	11577.0	22150.8	26273.1	24649.1	18937.8	18237.8
65°	1461.7	1492.5	1764.8	2702.1	3226.5	6886.1	20583.2	30432.9	29891.1	22150.8	20553.7
67°	1418.8	1430.9	1559.6	2319.9	3041.4	4221.5	17244.1	31110.1	31659.9	24095.3	20626.1
67.5°	1428.2	1441.6	1563.6	2214.0	3036.1	3879.5	16093.5	30843.3	31537.9	24249.5	20305.6
70°	1377.2	1418.8	1790.3	2212.7	2887.2	3223.8	9637.8	26723.7	27446.5	22531.7	17229.3
72.5°	488.1	490.8	773.8	1790.3	3139.3	3258.7	4839.7	19590.8	20125.9	17236.0	12421.8
75°	289.7	246.7	257.5	509.6	2999.8	3164.8	2792.0	12518.3	12718.2	9876.5	6290.7
77.5°	199.8	174.3	179.7	225.3	1142.5	3120.5	2218.0	6528.0	6314.8	3463.8	1339.7
80°	114.0	100.6	107.3	197.1	415.7	2911.3	2092.0	2647.2	2256.9	587.4	370.1
82.5°	60.3	51.0	61.7	162.3	289.7	1814.4	2096.0	1279.3	1013.8	198.5	252.1
85°	21.5	17.4	29.5	111.3	193.1	556.5	1943.1	1075.5	844.8	96.6	191.8
87.5°	4.0	4.0	12.1	45.6	77.8	170.3	1149.2	638.3	427.8	57.7	131.4
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°	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4	5070.4
2.5°	5054.3	4996.6	4918.8	4823.6	4711.0	4611.7	4538.0	4461.5	4445.5	4418.6	4414.6
5°	5020.7	4921.5	4728.4	4507.1	4271.1	4057.9	3884.9	3730.7	3662.3	3603.3	3596.6
7.5°	4971.1	4822.3	4493.7	4137.0	3768.2	3433.0	3148.7	2947.5	2762.5	2674.0	2660.6
10°	4913.5	4700.2	4229.6	3734.7	3225.1	2751.8	2329.3	1975.3	1760.7	1633.4	1617.3
12.5°	4859.8	4580.9	3960.0	3317.7	2640.5	2007.5	1464.4	1126.4	901.2	810.0	799.2
15°	4834.3	4484.3	3707.9	2891.2	2029.0	1278.0	800.6	619.5	545.8	524.3	523.0
17.5°	4831.7	4402.5	3461.2	2450.0	1421.5	742.9	521.7	476.1	461.3	455.9	455.9
20°	4830.3	4324.8	3214.4	1992.7	902.5	494.8	434.5	423.8	413.0	406.3	406.3
22.5°	4845.1	4255.0	2956.9	1526.1	568.6	401.0	382.2	371.5	358.1	348.7	347.3
25°	4859.8	4201.4	2694.1	1086.2	411.7	348.7	329.9	315.1	296.4	284.3	283.0
27.5°	4862.5	4134.3	2412.5	726.8	344.6	304.4	280.3	257.5	236.0	223.9	222.6
30°	4822.3	4021.7	2100.0	490.8	304.4	264.2	232.0	207.9	187.7	178.4	178.4
32.5°	4743.2	3882.2	1756.7	370.1	270.9	226.6	191.8	169.0	155.6	151.5	150.2
35°	4672.1	3732.0	1404.0	313.8	242.7	191.8	156.9	142.1	134.1	132.8	131.4
37.5°	4630.5	3611.3	1072.8	284.3	215.9	160.9	132.8	122.0	118.0	115.3	116.7
40°	4662.7	3510.8	792.5	260.2	189.1	134.1	112.6	107.3	103.3	101.9	101.9
42.5°	4803.5	3493.3	588.7	238.7	163.6	111.3	97.9	93.9	91.2	89.8	91.2
45°	5173.6	3600.6	457.3	218.6	138.1	93.9	83.1	81.8	80.5	80.5	80.5
47.5°	5730.1	3821.9	380.8	195.8	115.3	80.5	72.4	71.1	69.7	71.1	71.1
50°	6672.9	4226.9	340.6	173.0	95.2	68.4	61.7	61.7	61.7	61.7	63.0
52.5°	8106.4	5023.4	313.8	150.2	77.8	57.7	52.3	52.3	53.6	53.6	55.0
55°	9703.6	6080.1	289.7	127.4	65.7	48.3	42.9	44.3	45.6	46.9	46.9
57.5°	11436.1	7250.8	269.5	104.6	56.3	38.9	36.2	37.5	38.9	41.6	41.6
60°	13526.8	8518.1	240.0	81.8	46.9	30.8	28.2	30.8	34.9	37.5	38.9
62.5°	15822.6	9743.8	202.5	64.4	38.9	24.1	22.8	28.2	33.5	36.2	37.5
65°	17391.6	10128.7	155.6	52.3	29.5	17.4	18.8	25.5	32.2	36.2	36.2
67°	16755.9	9183.2	127.4	44.3	24.1	13.4	17.4	25.5	32.2	34.9	36.2
67.5°	16314.7	8813.1	122.0	42.9	22.8	13.4	17.4	25.5	32.2	36.2	36.2
70°	13274.7	6620.6	101.9	32.2	18.8	12.1	14.8	24.1	30.8	34.9	34.9
72.5°	9223.5	4082.0	91.2	22.8	16.1	10.7	13.4	22.8	29.5	33.5	34.9
75°	4385.1	1477.8	77.8	17.4	14.8	9.4	12.1	22.8	29.5	33.5	33.5
77.5°	894.5	343.3	63.0	14.8	12.1	9.4	10.7	21.5	28.2	32.2	32.2
80°	293.7	132.8	46.9	13.4	12.1	9.4	10.7	20.1	28.2	30.8	32.2
82.5°	211.9	67.1	30.8	13.4	12.1	9.4	9.4	20.1	26.8	30.8	30.8
85°	162.3	46.9	20.1	13.4	12.1	9.4	9.4	18.8	25.5	29.5	29.5
87.5°	107.3	18.8	16.1	13.4	12.1	9.4	9.4	18.8	24.1	28.2	29.5
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)