

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: P269319

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24223 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

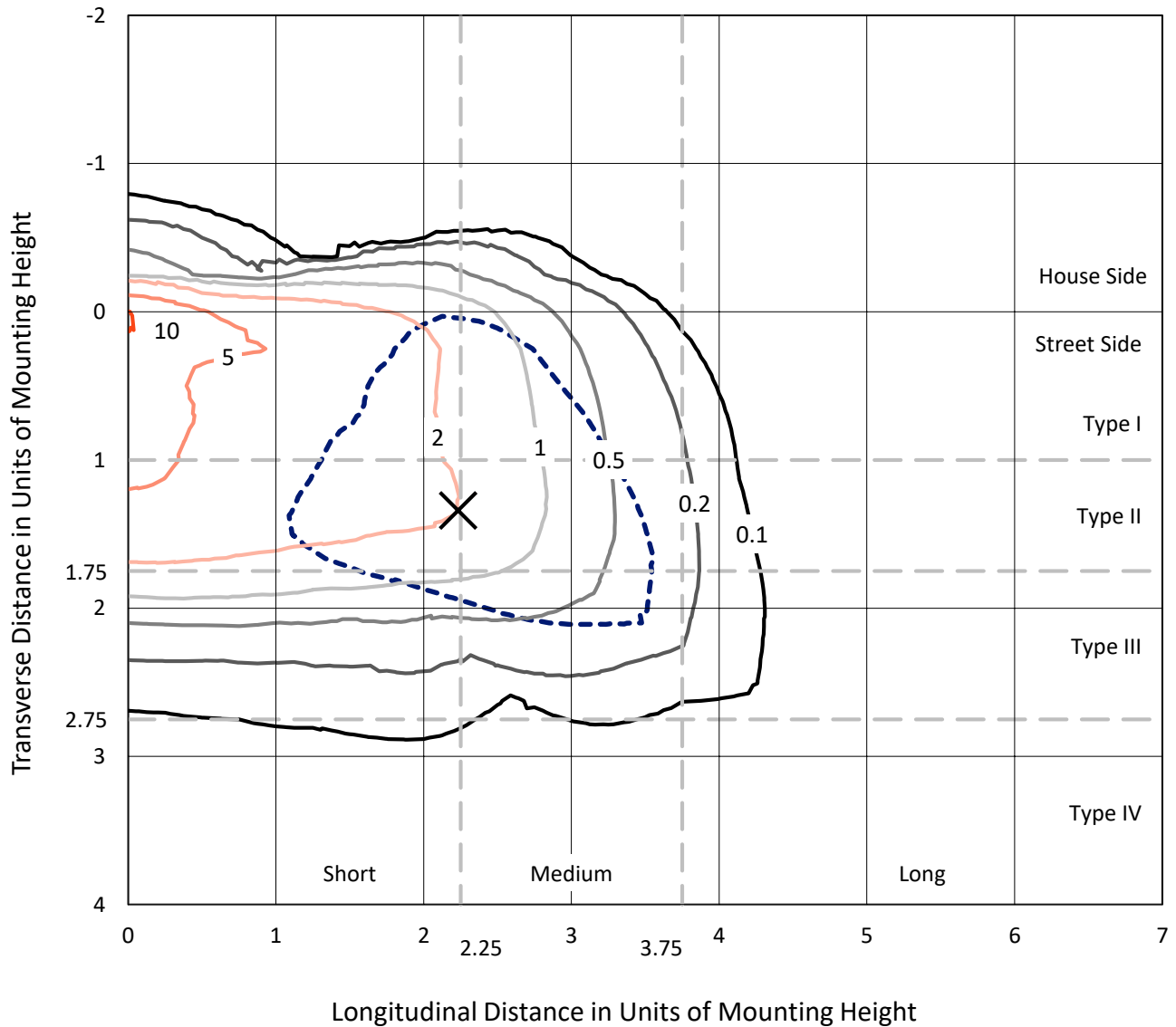


REPORT NUMBER: P269319

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

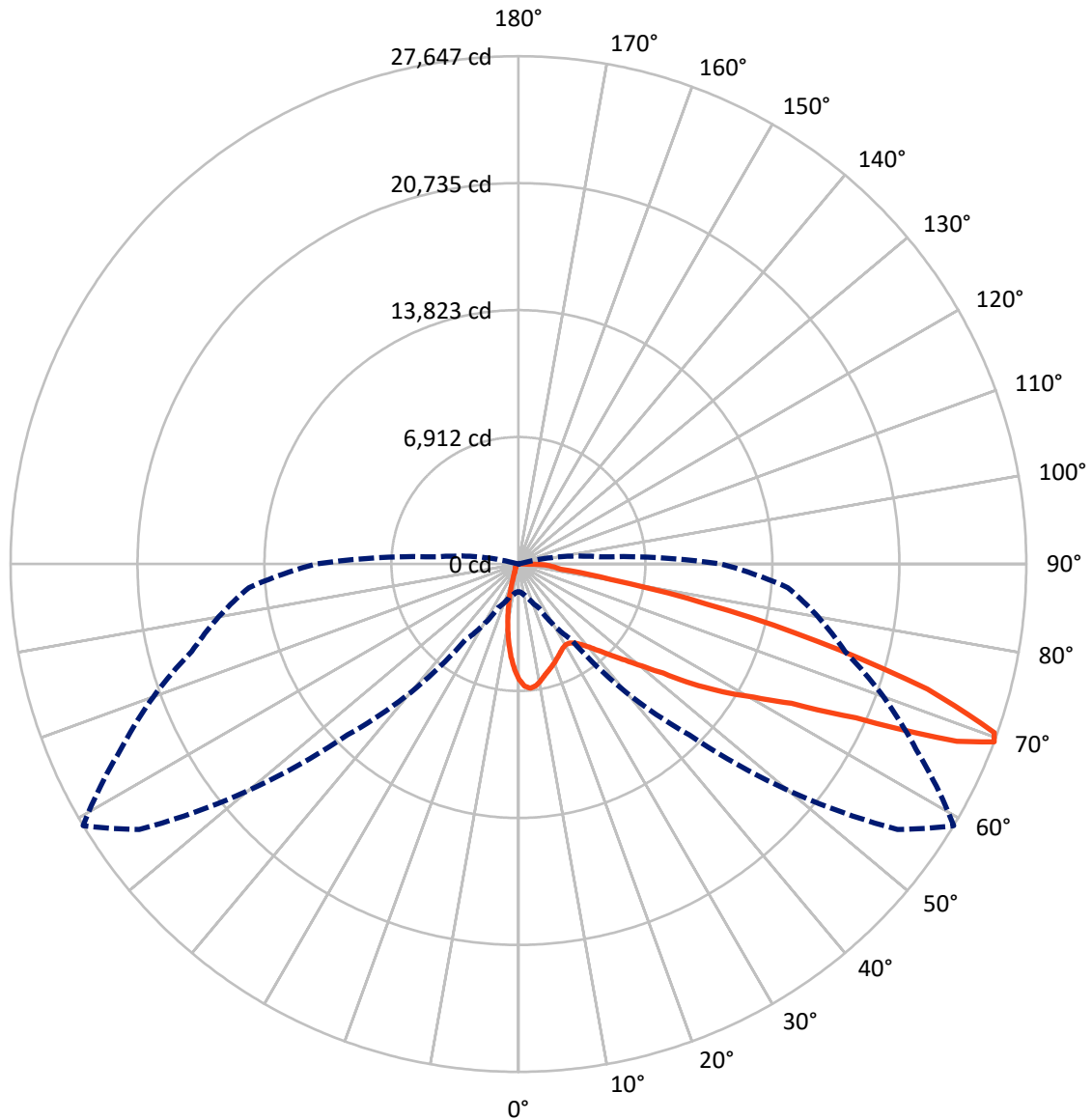


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269319

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269319

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1972.6	0.0	1972.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	22250.3	0.0	22250.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	24223.0	0.0	24223.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.8	2.1
10°-20°	1057.5	4.4
20°-30°	1423.0	5.9
30°-40°	2066.0	8.5
40°-50°	3440.1	14.2
50°-60°	5366.5	22.2
60°-70°	6640.6	27.4
70°-80°	3365.4	13.9
80°-90°	352.1	1.5
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°	24223.0	100.0
0°-180°	24223.0	100.0



REPORT NUMBER: P269319

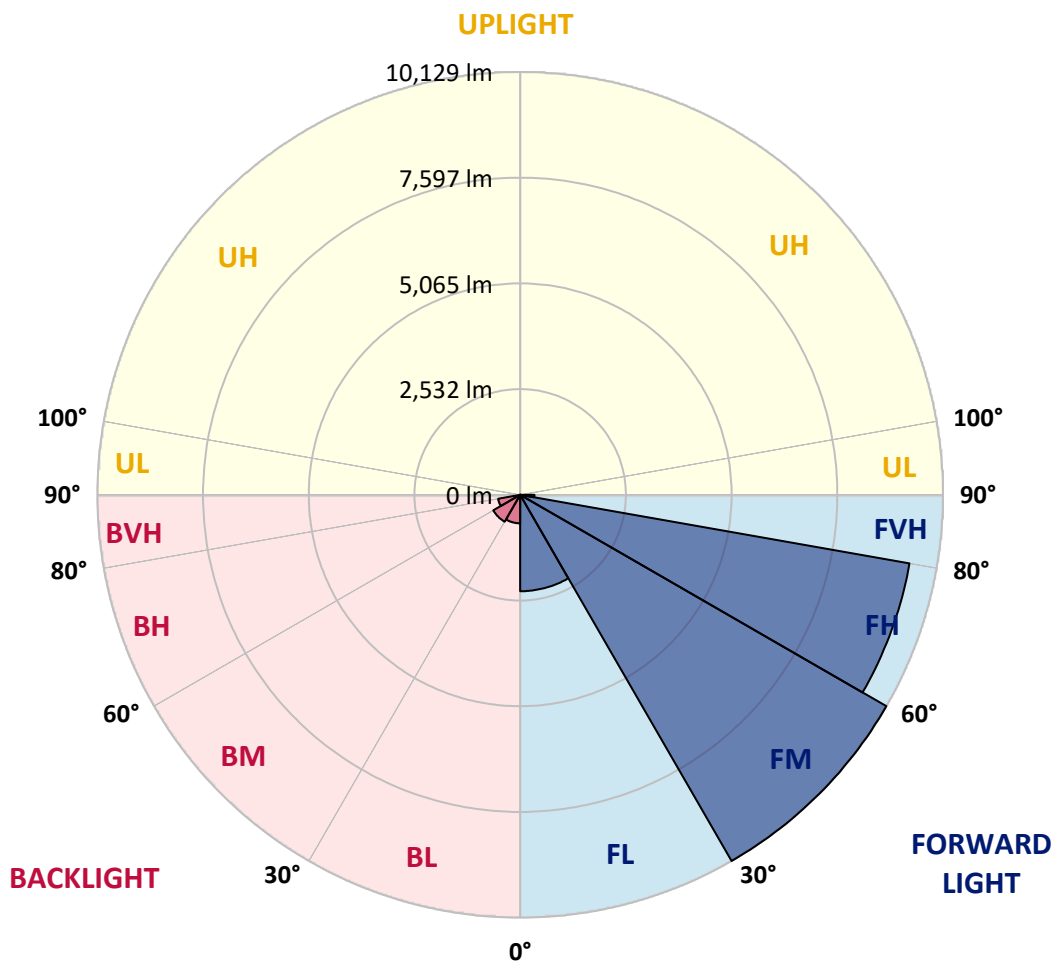
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.4	9.5			
FM	(30°-60°)	10129.3	41.8			
FH	(60°-80°)	9470.3	39.1			G4/12000
FVH	(80°-90°)	341.3	1.4			G3/500
BL	(0°-30°)	682.8	2.8	B2/1000		
BM	(30°-60°)	743.3	3.1	B1/1000		
BH	(60°-80°)	535.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.8	0.0			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 III Short





REPORT NUMBER: P269319

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL3-7027-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9
2.5°	6910.3	6907.5	6877.5	6863.8	6839.1	6787.1	6706.2	6663.7	6595.3	6476.2	6315.9
5°	6847.3	6880.2	6897.9	6899.3	6917.2	6897.9	6825.4	6789.7	6695.2	6503.5	6215.8
7.5°	6419.9	6432.4	6483.0	6526.7	6611.7	6692.6	6718.6	6703.5	6647.4	6441.8	6059.7
10°	5962.5	5974.7	6035.1	6092.6	6207.6	6332.3	6463.8	6491.2	6514.5	6354.3	5909.1
12.5°	5568.0	5580.4	5642.0	5717.4	5851.5	6004.9	6209.1	6254.2	6356.9	6270.7	5788.5
15°	5228.2	5233.7	5294.0	5387.1	5547.5	5744.8	5976.2	6048.7	6206.3	6211.8	5683.0
17.5°	4939.3	4953.0	4989.9	5078.9	5254.4	5498.2	5767.9	5872.1	6057.0	6162.5	5580.4
20°	4762.5	4776.3	4774.9	4824.2	4981.7	5242.0	5559.8	5684.5	5909.1	6111.8	5488.6
22.5°	4728.3	4728.3	4692.7	4685.9	4779.1	4996.8	5343.4	5495.4	5776.2	6089.9	5424.1
25°	4850.3	4844.7	4755.7	4683.1	4687.3	4817.4	5133.8	5314.6	5663.9	6104.9	5389.9
27.5°	5107.8	5100.8	4988.6	4850.3	4739.3	4737.9	4975.0	5169.3	5574.8	6176.1	5403.7
30°	5463.9	5461.2	5339.3	5165.3	4963.9	4779.1	4920.0	5096.9	5517.3	6304.9	5435.1
32.5°	5852.8	5848.8	5757.0	5573.4	5318.7	4963.9	4977.6	5125.5	5533.7	6476.2	5511.8
35°	6265.1	6258.3	6218.5	6058.3	5777.5	5305.0	5166.6	5281.8	5637.9	6732.3	5662.5
37.5°	6711.7	6718.6	6747.3	6593.9	6299.5	5783.0	5483.1	5561.1	5847.3	7080.3	5907.7
40°	7370.6	7369.2	7378.8	7177.4	6894.0	6367.9	5925.5	5950.2	6198.0	7541.8	6280.2
42.5°	8566.3	8482.8	8229.5	7818.5	7533.5	7036.3	6483.0	6456.9	6626.7	8113.0	6802.1
45°	10173.0	9995.0	9337.5	8549.9	8185.5	7789.7	7169.3	7085.7	7193.8	8799.2	7446.0
47.5°	11555.1	11370.1	10440.1	9311.6	8877.3	8504.8	7973.3	7822.6	7858.3	9567.6	8262.3
50°	12024.9	11934.5	11122.3	9974.4	9547.0	9404.6	8906.1	8722.5	8671.8	10456.6	9208.7
52.5°	11861.8	11855.1	11314.1	10404.4	10160.6	10336.1	10079.9	9867.6	9681.4	11393.5	10171.7
55°	11600.4	11634.6	11392.1	10781.2	10773.1	11186.7	11685.2	11508.5	10968.8	12411.3	11001.7
57.5°	10878.5	11025.0	11348.3	11493.5	11830.4	12253.7	13022.1	13126.3	12487.9	13190.6	11690.7
60°	8826.6	9148.5	10206.0	11596.2	13193.2	14247.9	14635.6	14724.7	13734.4	13838.5	12620.7
62.5°	6265.1	6593.9	7934.9	10286.8	13213.9	16868.4	17039.5	16690.2	15106.8	14798.7	14224.8
65°	3325.7	3579.1	4674.9	7425.3	11456.4	17476.4	21243.3	20202.3	17528.5	16687.5	16297.1
67.5°	1701.2	1777.9	2213.6	3634.0	7876.0	15523.3	25011.4	25744.3	21702.2	18561.3	16197.2
69°	1505.3	1550.6	1839.5	2627.2	5043.4	13148.1	25194.9	27646.7	23886.9	18405.2	14719.2
70°	1457.4	1497.1	1760.0	2377.9	3942.1	11026.3	24492.3	27479.7	24445.7	17810.7	13615.3
72.5°	1236.8	1271.1	1567.0	2101.1	3203.9	5473.5	19895.4	23285.5	21936.3	14836.9	9855.2
75°	827.2	939.6	1503.9	1969.7	2980.5	3109.4	13116.6	16827.2	15631.4	10007.3	5133.8
77.5°	198.6	213.6	424.5	1567.0	2725.7	2736.7	6745.9	10460.8	8532.1	3566.8	1213.6
80°	106.9	102.8	119.1	311.0	2538.2	2568.3	3036.7	5077.6	3046.3	591.8	399.9
82.5°	75.4	71.2	76.7	130.2	798.6	2339.5	2197.1	2298.5	1262.8	227.5	179.4
85°	27.4	26.1	42.5	117.8	250.6	1345.1	2257.4	1895.8	1023.2	104.2	131.5
87.5°	9.6	8.3	16.3	64.4	76.7	572.6	1393.0	1432.7	402.7	63.1	61.7
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°	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9	6304.9
2.5°	6248.7	6163.8	6007.7	5847.3	5699.4	5521.4	5432.4	5344.7	5307.7	5294.0	5229.7
5°	6068.0	5924.1	5592.7	5259.8	4953.0	4627.0	4411.9	4239.3	4138.0	4088.6	4010.7
7.5°	5836.5	5600.8	5098.2	4584.5	4106.5	3635.4	3286.0	3017.5	2832.6	2743.7	2662.8
10°	5611.8	5298.2	4583.2	3883.3	3234.0	2609.3	2127.1	1777.9	1554.6	1451.9	1386.2
12.5°	5410.4	5003.6	4085.9	3199.8	2384.7	1653.3	1162.9	884.8	746.5	698.5	675.3
15°	5231.0	4732.5	3616.0	2550.5	1615.0	945.1	635.6	541.0	519.1	519.1	516.3
17.5°	5061.2	4466.7	3162.8	1940.9	1013.6	578.0	483.5	471.3	471.3	476.7	476.7
20°	4898.2	4213.3	2724.4	1393.0	638.2	458.9	436.9	434.2	436.9	443.9	443.9
22.5°	4758.5	3983.3	2314.8	956.1	473.9	413.7	402.7	398.6	399.9	404.1	406.8
25°	4654.4	3788.7	1928.7	647.9	408.2	376.7	364.4	357.4	352.0	352.0	354.8
27.5°	4588.6	3624.3	1554.6	471.3	367.0	342.4	323.3	312.3	299.9	293.1	295.8
30°	4540.8	3468.1	1204.0	385.0	328.7	304.0	279.5	261.6	243.8	235.5	238.3
32.5°	4522.8	3342.1	899.9	339.6	294.6	267.1	237.0	213.6	194.6	187.7	189.1
35°	4570.8	3242.2	658.8	306.9	267.1	232.8	198.6	172.6	157.6	153.4	154.8
37.5°	4696.8	3188.8	493.1	279.5	242.5	204.1	165.7	141.0	131.5	131.5	132.9
40°	4935.2	3187.4	395.9	260.2	220.5	176.6	137.0	119.1	113.6	116.4	117.8
42.5°	5283.1	3259.9	345.2	242.5	201.4	150.6	113.6	101.4	100.0	102.8	104.2
45°	5758.3	3392.9	317.8	227.5	180.7	126.0	95.8	87.7	87.7	91.7	93.2
47.5°	6340.4	3587.3	294.6	212.3	160.3	105.6	82.1	76.7	78.1	82.1	83.5
50°	7041.9	3832.4	271.2	195.9	145.2	87.7	71.2	67.2	68.5	74.0	75.4
52.5°	7840.3	4162.7	252.1	180.7	126.0	72.7	60.2	57.5	60.2	65.8	67.2
55°	8525.3	4458.5	228.8	168.5	101.4	60.2	49.2	49.2	52.0	58.8	60.2
57.5°	9184.1	4768.1	208.1	145.2	79.4	47.9	41.1	42.5	46.5	53.4	54.7
60°	10151.1	5292.6	183.6	121.9	60.2	38.4	34.2	35.7	41.1	47.9	49.2
62.5°	11793.5	6091.2	158.9	101.4	46.5	30.2	27.4	30.2	37.0	45.3	46.5
65°	13275.5	6415.9	130.2	84.9	35.7	23.3	23.3	27.4	35.7	43.8	45.3
67.5°	12449.5	5400.9	101.4	67.2	27.4	17.7	19.1	26.1	34.2	43.8	45.3
69°	11009.9	4416.1	86.2	53.4	23.3	16.3	17.7	26.1	34.2	42.5	43.8
70°	9888.2	3728.4	76.7	45.3	20.5	16.3	17.7	24.7	34.2	42.5	43.8
72.5°	6622.7	2013.6	61.7	32.9	19.1	15.1	15.1	24.7	32.9	41.1	42.5
75°	2846.3	556.1	49.2	23.3	16.3	13.7	13.7	23.3	31.5	39.7	42.5
77.5°	520.5	141.0	39.7	20.5	16.3	13.7	12.3	21.9	30.2	38.4	39.7
80°	206.8	69.9	31.5	17.7	15.1	12.3	11.0	20.5	28.7	37.0	38.4
82.5°	124.7	39.7	26.1	16.3	15.1	11.0	9.6	17.7	27.4	35.7	37.0
85°	101.4	27.4	20.5	16.3	13.7	11.0	8.3	16.3	24.7	34.2	35.7
87.5°	49.2	19.1	19.1	15.1	13.7	11.0	8.3	15.1	23.3	32.9	34.2
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)