

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: P383628

Luminaire Tested: **GLEON-SA9A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29849.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

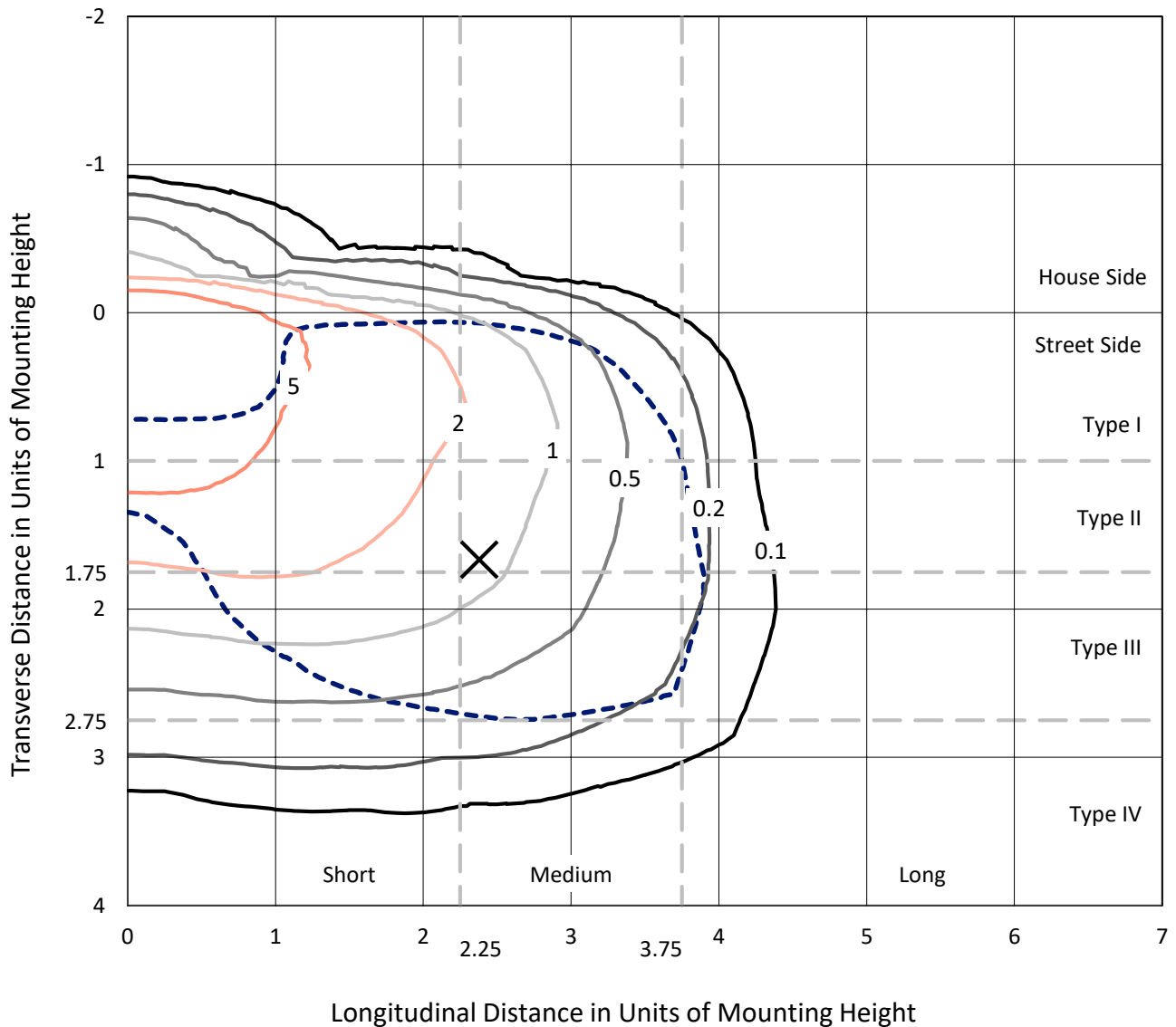
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

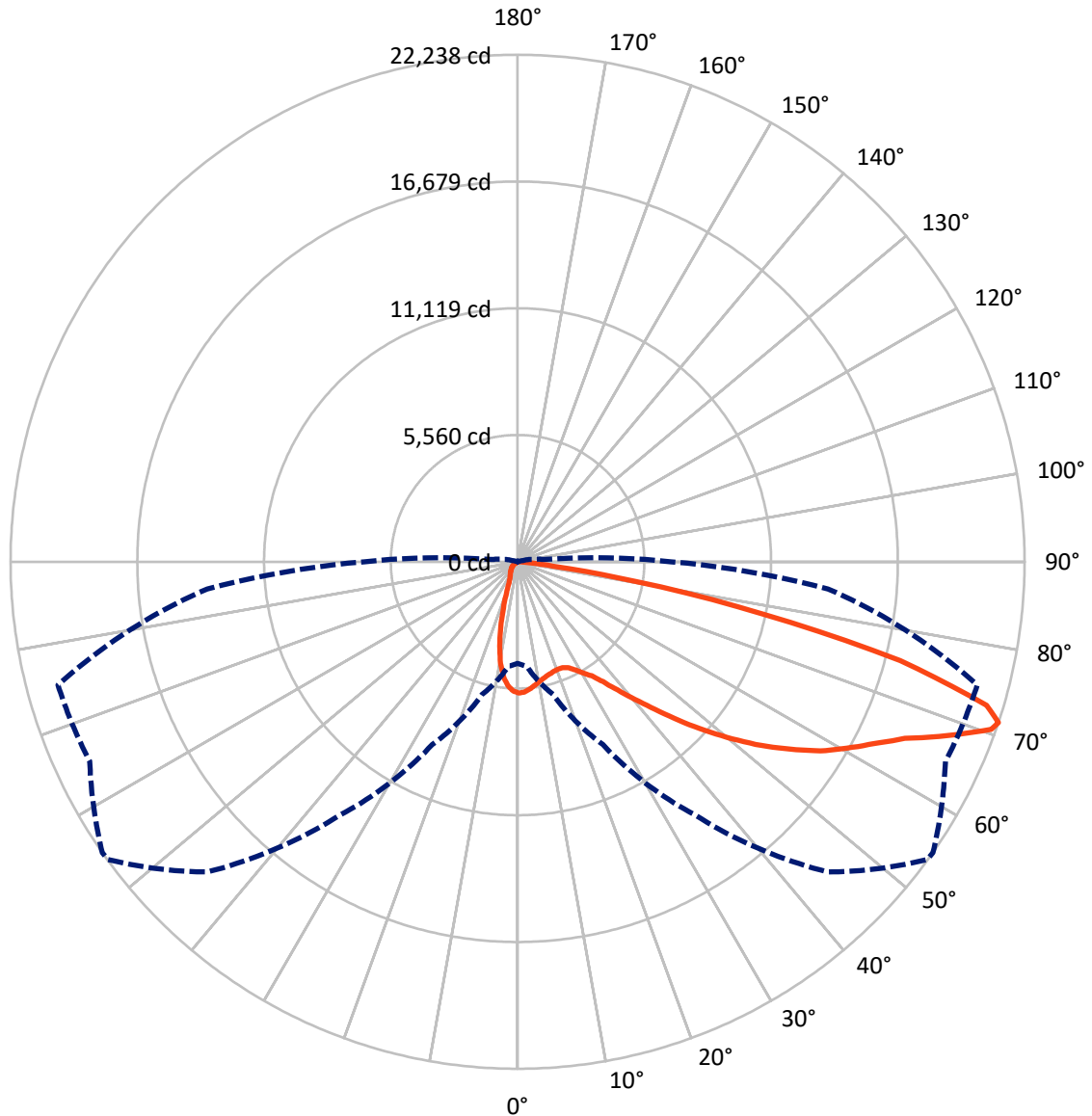
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.3	0.0	2363.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	27486.3	0.0	27486.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	29849.6	0.0	29849.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.6
10°-20°	1108.1	3.7
20°-30°	1780.7	6.0
30°-40°	3025.5	10.1
40°-50°	4696.0	15.7
50°-60°	6313.7	21.2
60°-70°	7723.7	25.9
70°-80°	4515.9	15.1
80°-90°	195.2	0.7
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°	29849.6	100.0
0°-180°	29849.6	100.0

Coefficient of Utilization

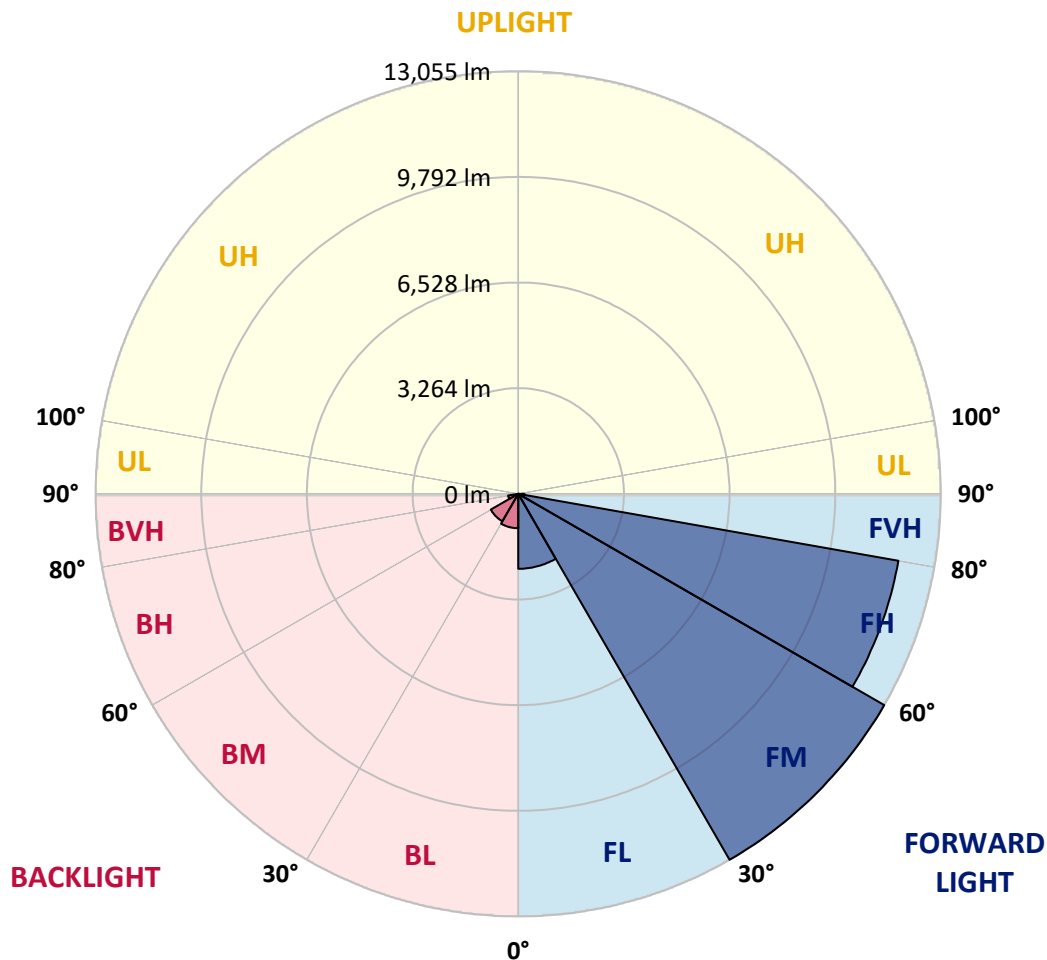


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2315.9	7.8			
FM (30°-60°)	13055.3	43.7			
FH (60°-80°)	11922.9	39.9			G4/12000
FVH (80°-90°)	192.1	0.6			G2/225
BL (0°-30°)	1063.7	3.6	B3/2500		
BM (30°-60°)	979.9	3.3	B1/1000		
BH (60°-80°)	316.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6
2.5°	5587.7	5594.4	5618.5	5629.2	5654.8	5697.6	5719.1	5720.4	5755.3	5768.7	5779.4
5°	5192.4	5232.5	5272.7	5315.6	5393.4	5496.6	5598.4	5607.8	5720.4	5803.5	5847.7
7.5°	4851.9	4888.1	4936.4	5004.6	5114.6	5276.8	5446.9	5467.1	5680.2	5869.2	5968.3
10°	4502.1	4531.6	4601.3	4701.8	4853.3	5070.3	5299.6	5333.0	5644.0	5957.6	6131.9
12.5°	4128.2	4145.6	4230.0	4374.7	4597.3	4873.3	5174.9	5219.2	5621.2	6059.5	6324.9
15°	3844.0	3852.0	3932.4	4082.6	4337.2	4696.4	5078.4	5132.0	5626.5	6181.5	6535.3
17.5°	3771.6	3775.7	3818.5	3921.7	4146.9	4538.2	5002.0	5067.7	5642.7	6300.8	6747.1
20°	4065.2	4037.0	3992.8	3976.7	4073.2	4443.1	4956.4	5030.2	5664.1	6406.6	6937.4
22.5°	4870.7	4787.6	4603.9	4358.6	4209.8	4449.8	4968.5	5042.2	5732.5	6536.7	7157.2
25°	6066.2	5950.9	5638.7	5156.1	4692.4	4642.8	5069.0	5144.1	5865.1	6692.1	7367.6
27.5°	7426.6	7312.6	6930.7	6241.7	5451.0	5024.8	5299.6	5369.3	6062.2	6830.2	7528.5
30°	8729.3	8697.2	8246.9	7464.1	6405.3	5644.0	5597.1	5656.1	6208.3	6913.3	7655.8
32.5°	9833.8	9782.8	9421.0	8659.7	7497.7	6387.9	5946.9	5964.3	6318.2	7020.5	7822.0
35°	10857.7	10794.8	10477.1	9757.4	8618.1	7296.6	6485.7	6460.3	6558.1	7236.3	8063.3
37.5°	11751.8	11809.4	11456.9	10772.0	9623.4	8241.5	7212.1	7135.7	6933.4	7587.5	8413.1
40°	12499.7	12499.7	12316.1	11745.0	10709.0	9218.6	8033.8	7933.2	7497.7	8129.0	8856.7
42.5°	12769.1	12826.7	12895.0	12572.1	11680.8	10234.5	8949.2	8844.7	8292.5	8896.9	9416.9
45°	12785.1	12876.3	13226.1	13224.8	12558.7	11243.8	9981.3	9931.6	9311.1	9883.3	10111.2
47.5°	12558.7	12672.6	13248.8	13575.9	13254.2	12183.3	11109.7	11048.2	10508.0	11092.3	10837.7
50°	12208.8	12334.8	13005.0	13714.0	13727.4	13001.0	12298.6	12206.2	11825.5	12474.2	11588.3
52.5°	11582.9	11826.8	12786.5	13746.1	14038.3	13707.3	13429.8	13389.6	13299.8	13805.1	12186.0
55°	10243.9	10514.7	12238.3	13756.9	14326.5	14333.2	14490.0	14500.7	14681.7	15048.9	12631.0
57.5°	9611.3	9764.1	11281.3	13807.8	14754.0	15043.6	15570.3	15653.4	15933.5	16229.7	13139.0
60°	9213.2	9394.2	10809.5	13738.1	15425.5	15975.1	16571.5	16599.6	16899.9	17448.1	13826.6
62.5°	8895.6	9073.8	10512.0	13470.0	16180.1	17095.6	17549.9	17552.6	17777.7	18899.6	14608.0
65°	8111.5	8261.6	9910.2	13168.5	16678.7	18204.0	18686.5	18669.1	18852.7	20430.2	15515.3
67.5°	6977.6	7092.9	8681.1	12025.2	16491.1	19211.9	20402.1	20344.4	20122.0	21753.1	15871.9
70°	5394.7	5436.2	6842.2	10021.4	14732.6	19599.2	22060.1	22030.5	20900.7	21515.9	14565.0
71°	4459.2	4595.9	6030.0	8844.7	13554.5	19241.4	22220.9	22238.3	20704.9	20869.8	13665.7
72.5°	2589.4	2706.1	4370.7	6792.7	11507.9	17748.3	21387.2	21513.2	19790.9	18982.7	11672.7
75°	554.9	593.8	1620.4	3287.8	6330.2	12439.3	16881.1	17330.1	16130.6	12913.9	7035.2
77.5°	386.0	416.9	694.3	1491.8	2092.3	6146.6	10486.5	10993.2	9636.8	4853.3	2251.7
80°	305.5	340.5	541.5	737.1	565.6	1982.3	4912.2	5221.8	3214.0	1082.9	379.3
82.5°	170.2	202.4	422.2	398.1	217.1	376.6	1375.2	1554.8	643.3	218.4	89.8
85°	49.6	60.3	272.1	289.5	92.5	72.4	234.6	290.8	121.9	57.7	40.2
87.5°	0.0	0.0	131.3	111.2	26.8	10.7	21.4	24.1	24.1	24.1	26.8
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°	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6	5756.6
2.5°	5779.4	5788.7	5755.3	5711.0	5664.1	5606.5	5546.2	5499.3	5497.9	5475.2	5452.3
5°	5850.4	5845.1	5752.6	5611.8	5445.6	5272.7	5107.9	4921.6	4860.0	4783.5	4758.1
7.5°	5981.7	5944.2	5748.6	5440.3	5075.7	4713.8	4339.9	3963.3	3802.5	3657.7	3632.2
10°	6146.6	6075.6	5723.1	5182.9	4514.1	3846.6	3282.4	2770.4	2545.3	2372.4	2364.3
12.5°	6318.2	6209.6	5652.1	4794.3	3778.4	2840.1	2190.1	1686.1	1498.5	1377.9	1388.6
15°	6497.8	6335.6	5499.3	4270.2	2940.6	1927.4	1345.6	1049.5	974.4	943.6	951.6
17.5°	6681.4	6422.7	5286.2	3638.9	2113.7	1243.8	931.5	848.5	848.5	855.1	857.8
20°	6840.9	6469.6	4972.5	2931.2	1432.8	906.0	814.9	802.8	809.5	820.2	821.6
22.5°	6999.1	6472.3	4563.7	2214.2	1002.5	793.5	776.1	770.7	774.7	786.8	788.1
25°	7127.7	6440.2	4051.8	1574.9	800.2	747.8	739.8	737.1	739.8	754.6	754.6
27.5°	7180.0	6323.5	3427.2	1107.1	717.1	697.0	694.3	697.0	701.0	711.7	713.0
30°	7185.4	6119.8	2746.3	801.5	650.0	628.6	633.9	643.3	639.3	636.6	639.3
32.5°	7198.7	5883.9	2082.8	659.4	593.8	560.2	553.5	553.5	537.5	528.1	522.7
35°	7243.0	5606.5	1510.5	592.4	536.1	497.3	471.8	442.3	411.5	395.3	391.3
37.5°	7312.6	5315.6	1081.6	548.2	485.1	441.0	392.7	340.5	296.2	284.1	284.1
40°	7440.0	5015.5	800.2	513.4	445.0	390.0	317.7	249.3	209.1	202.4	202.4
42.5°	7641.0	4699.1	638.0	482.5	410.2	337.8	242.6	180.9	151.5	147.5	146.1
45°	7850.2	4350.6	557.5	453.0	372.6	277.4	179.6	134.0	116.6	112.6	112.6
47.5°	8059.3	3979.4	518.7	424.9	336.4	215.7	134.0	105.9	97.8	97.8	99.2
50°	8236.2	3592.0	490.6	394.0	289.5	163.5	105.9	89.8	87.1	92.5	93.8
52.5°	8280.4	3211.3	455.7	355.2	231.9	124.6	87.1	79.1	79.1	79.1	79.1
55°	8253.6	2916.5	410.2	306.9	171.6	99.2	75.1	69.7	68.4	68.4	68.4
57.5°	8344.7	2742.3	328.4	238.6	123.3	80.4	65.7	61.7	59.0	57.7	57.7
60°	8528.3	2628.4	234.6	171.6	92.5	67.0	56.3	52.3	48.3	45.6	45.6
62.5°	8772.3	2529.2	174.2	127.3	71.1	53.7	46.9	42.9	37.5	34.8	34.8
65°	8959.9	2352.3	132.7	95.2	53.7	42.9	36.1	34.8	26.8	24.1	22.8
67.5°	8673.1	1963.5	107.2	69.7	40.2	33.5	28.1	26.8	16.1	13.4	13.4
70°	7438.7	1367.1	85.8	51.0	29.5	26.8	22.8	17.4	12.0	10.7	10.7
71°	6745.7	1141.9	77.7	42.9	25.4	25.4	21.4	14.7	10.7	9.4	9.4
72.5°	5603.8	810.9	65.7	33.5	22.8	26.8	22.8	13.4	10.7	9.4	8.0
75°	3252.9	339.1	45.6	22.8	17.4	32.1	29.5	12.0	8.0	6.7	6.7
77.5°	978.4	124.6	25.4	14.7	13.4	28.1	33.5	10.7	4.0	1.3	1.3
80°	178.3	53.7	16.1	9.4	9.4	17.4	25.4	5.4	0.0	0.0	0.0
82.5°	63.0	26.8	9.4	5.4	4.0	8.0	12.0	0.0	0.0	0.0	0.0
85°	36.1	18.7	5.4	2.7	0.0	1.3	2.7	0.0	0.0	0.0	0.0
87.5°	24.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)