

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: P193683

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193683  
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-SL3-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 22751 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

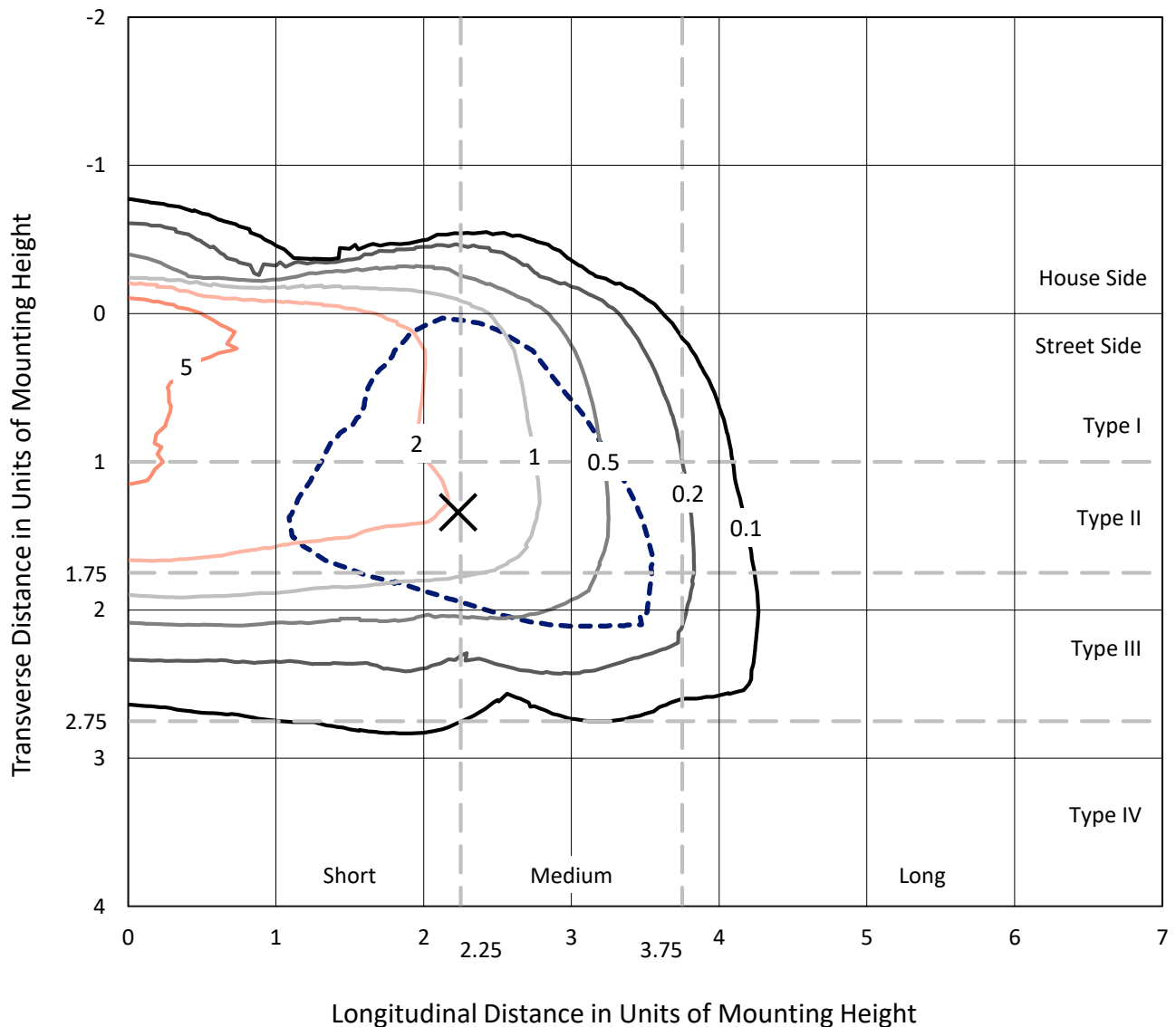


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

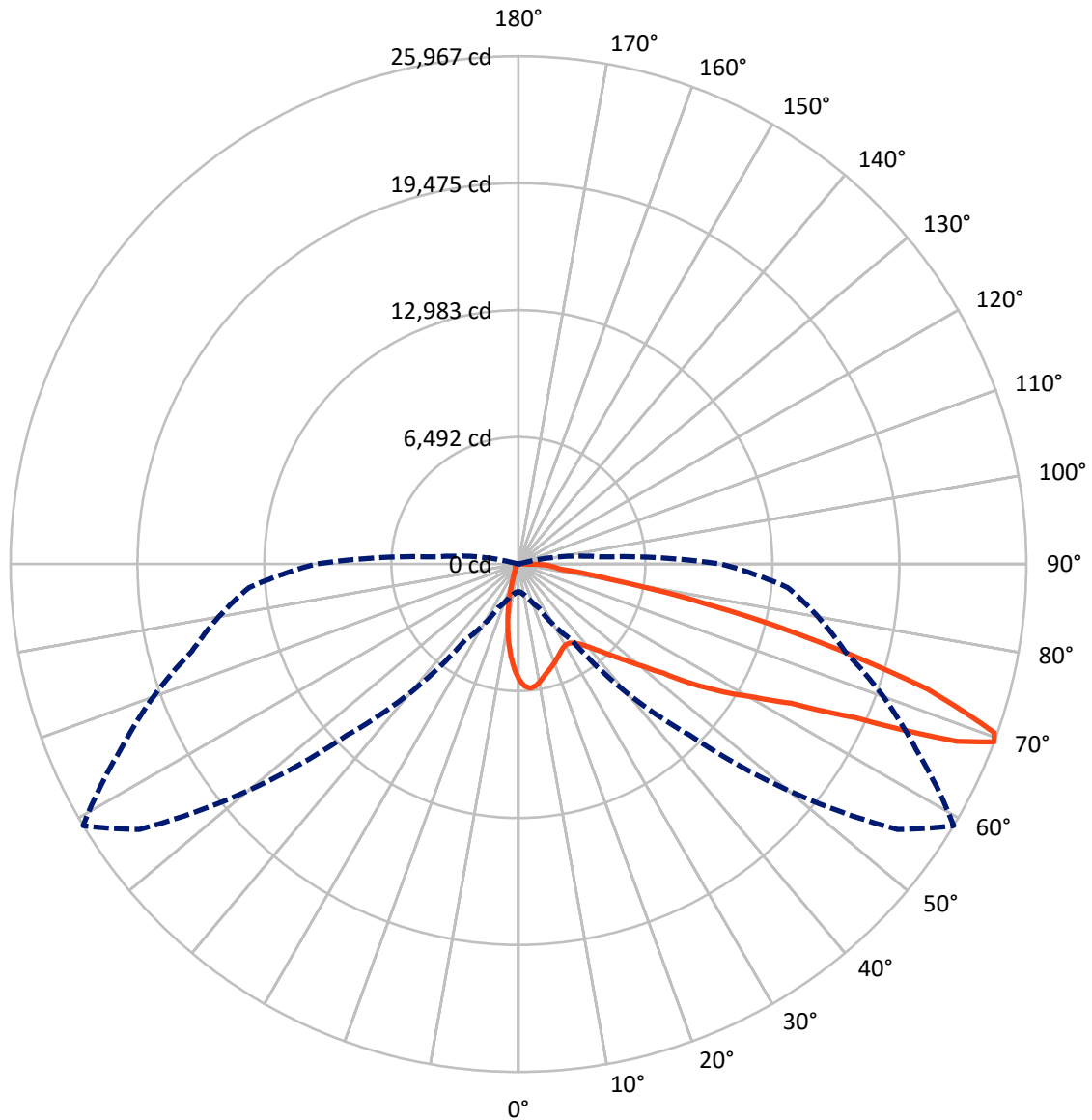


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1852.8	0.0	1852.8
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	20898.2	0.0	20898.2
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	22751.0	0.0	22751.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.7	2.1
10°-20°	993.2	4.4
20°-30°	1336.5	5.9
30°-40°	1940.5	8.5
40°-50°	3231.1	14.2
50°-60°	5040.4	22.2
60°-70°	6237.1	27.4
70°-80°	3160.9	13.9
80°-90°	330.7	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°	22751.0	100.0
0°-180°	22751.0	100.0



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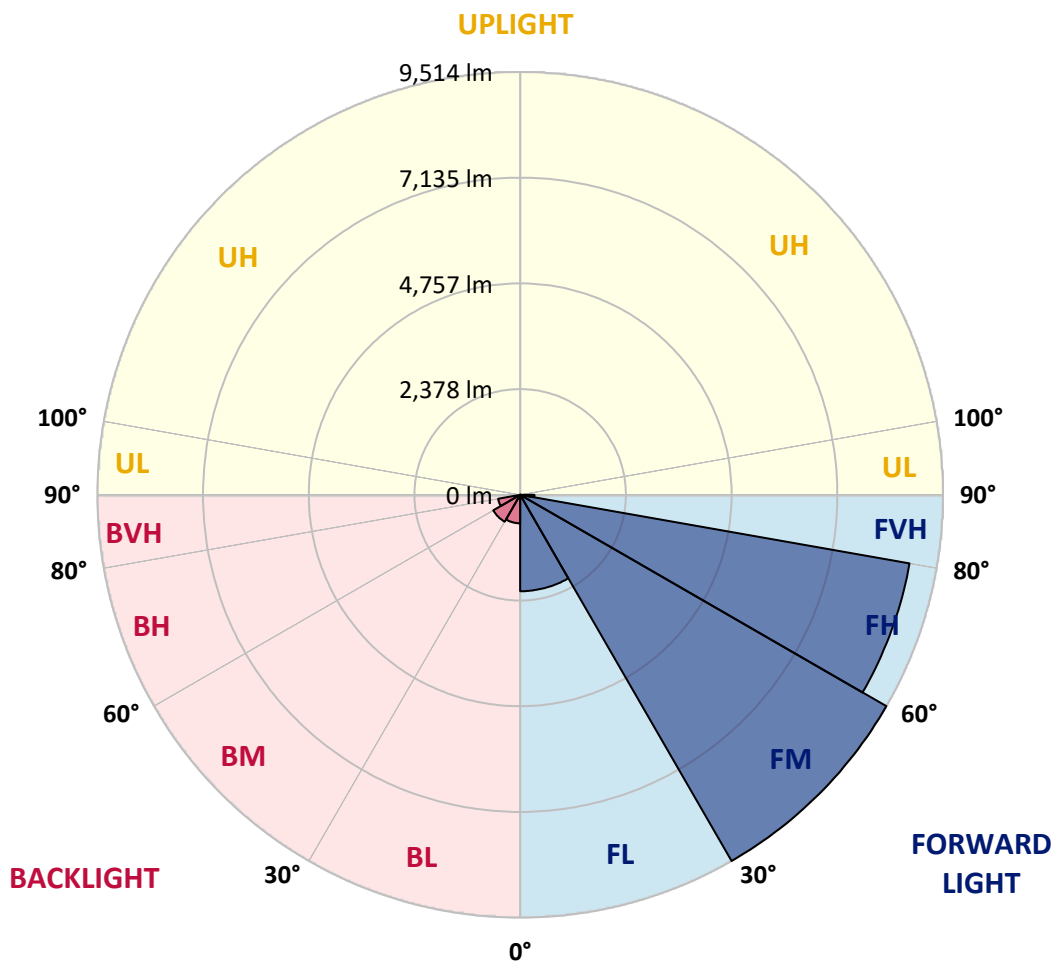
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2169.1	9.5			
FM	(30°-60°)	9513.8	41.8			
FH	(60°-80°)	8894.8	39.1			G4/12000
FVH	(80°-90°)	320.6	1.4			G3/500
BL	(0°-30°)	641.3	2.8	B2/1000		
BM	(30°-60°)	698.1	3.1	B1/1000		
BH	(60°-80°)	503.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8
2.5°	6490.4	6487.8	6459.5	6446.7	6423.5	6374.6	6298.7	6258.8	6194.5	6082.6	5932.1
5°	6431.2	6462.1	6478.8	6480.1	6496.8	6478.8	6410.6	6377.2	6288.4	6108.3	5838.1
7.5°	6029.8	6041.4	6089.0	6130.2	6209.9	6285.9	6310.3	6296.1	6243.4	6050.4	5691.5
10°	5600.1	5611.7	5668.3	5722.4	5830.4	5947.5	6071.0	6096.7	6118.6	5968.1	5550.0
12.5°	5229.6	5241.2	5299.1	5369.9	5495.9	5640.0	5831.7	5874.2	5970.7	5889.6	5436.8
15°	4910.6	4915.7	4972.3	5059.8	5210.3	5395.6	5613.0	5681.2	5829.1	5834.3	5337.7
17.5°	4639.1	4652.0	4686.7	4770.4	4935.0	5164.0	5417.5	5515.2	5688.9	5788.0	5241.2
20°	4473.2	4486.0	4484.7	4531.1	4679.0	4923.4	5221.9	5339.0	5550.0	5740.4	5155.0
22.5°	4441.0	4441.0	4407.6	4401.1	4488.6	4693.2	5018.6	5161.4	5425.2	5719.8	5094.5
25°	4555.5	4550.4	4466.7	4398.6	4402.4	4524.6	4821.8	4991.6	5319.7	5733.9	5062.4
27.5°	4797.4	4790.9	4685.4	4555.5	4451.3	4450.0	4672.6	4855.3	5236.1	5800.8	5075.3
30°	5131.9	5129.3	5014.8	4851.4	4662.3	4488.6	4621.1	4787.1	5182.0	5921.8	5104.8
32.5°	5497.2	5493.4	5407.2	5234.8	4995.5	4662.3	4675.1	4814.1	5197.5	6082.6	5176.9
35°	5884.5	5878.0	5840.7	5690.2	5426.5	4982.6	4852.7	4960.8	5295.2	6323.2	5318.4
37.5°	6303.9	6310.3	6337.3	6193.2	5916.6	5431.6	5149.9	5223.2	5492.1	6649.9	5548.7
40°	6922.7	6921.4	6930.4	6741.3	6475.0	5980.9	5565.4	5588.6	5821.4	7083.5	5898.6
42.5°	8045.8	7967.3	7729.3	7343.4	7075.8	6608.8	6089.0	6064.6	6224.1	7620.0	6388.8
45°	9554.9	9387.6	8770.1	8030.3	7688.1	7316.3	6733.6	6655.1	6756.7	8264.5	6993.4
47.5°	10852.9	10679.3	9805.7	8745.6	8337.8	7987.9	7488.7	7347.2	7380.7	8986.2	7760.2
50°	11294.2	11209.3	10446.4	9368.3	8966.9	8833.1	8364.8	8192.4	8144.8	9821.2	8649.2
52.5°	11141.1	11134.7	10626.5	9772.3	9543.3	9707.9	9467.4	9268.0	9093.0	10701.1	9553.6
55°	10895.4	10927.6	10699.8	10126.1	10118.3	10506.9	10975.2	10809.2	10302.3	11657.0	10333.2
57.5°	10217.4	10355.1	10658.7	10795.0	11111.5	11509.1	12230.8	12328.6	11729.0	12389.0	10980.3
60°	8290.2	8592.5	9585.7	10891.5	12391.6	13382.2	13746.3	13829.9	12899.8	12997.5	11853.8
62.5°	5884.5	6193.2	7452.7	9661.6	12410.9	15843.3	16004.1	15676.0	14188.8	13899.4	13360.3
65°	3123.6	3361.6	4390.8	6974.1	10760.3	16414.5	19952.4	18974.6	16463.4	15673.5	15306.8
67.5°	1597.8	1669.9	2079.0	3413.1	7397.4	14579.9	23491.5	24179.8	20383.3	17433.4	15212.9
69°	1413.9	1456.3	1727.8	2467.5	4736.9	12349.1	23663.9	25966.8	22435.3	17286.7	13824.8
70°	1368.8	1406.1	1653.2	2233.4	3702.6	10356.3	23004.0	25809.8	22960.2	16728.4	12787.8
72.5°	1161.7	1193.9	1471.8	1973.5	3009.1	5140.9	18686.4	21870.5	20603.3	13935.4	9256.4
75°	777.0	882.5	1412.6	1850.0	2799.4	2920.4	12319.5	15804.7	14681.6	9399.2	4821.8
77.5°	186.5	200.7	398.8	1471.8	2560.1	2570.4	6336.0	9825.0	8013.6	3350.1	1139.8
80°	100.3	96.5	111.9	292.0	2383.9	2412.2	2852.2	4769.1	2861.2	555.8	375.7
82.5°	70.8	66.9	72.0	122.2	750.0	2197.3	2063.5	2158.8	1186.2	213.6	168.5
85°	25.7	24.4	39.9	110.6	235.4	1263.3	2120.2	1780.5	961.0	97.8	123.5
87.5°	9.0	7.7	15.4	60.5	72.0	537.8	1308.4	1345.7	378.2	59.2	57.9
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°	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8	5921.8
2.5°	5869.0	5789.3	5642.6	5492.1	5353.1	5185.9	5102.3	5019.9	4985.2	4972.3	4911.9
5°	5699.2	5564.1	5252.8	4940.2	4652.0	4345.8	4143.8	3981.7	3886.5	3840.2	3766.9
7.5°	5481.8	5260.5	4788.4	4305.9	3856.9	3414.4	3086.3	2834.2	2660.5	2576.9	2501.0
10°	5270.8	4976.2	4304.6	3647.2	3037.4	2450.8	1997.9	1669.9	1460.2	1363.7	1301.9
12.5°	5081.7	4699.6	3837.6	3005.3	2239.8	1552.8	1092.2	831.1	701.1	656.1	634.2
15°	4913.2	4444.9	3396.4	2395.5	1516.8	887.7	596.9	508.2	487.6	487.6	485.0
17.5°	4753.6	4195.3	2970.5	1823.0	952.0	542.9	454.1	442.6	442.6	447.7	447.7
20°	4600.5	3957.3	2558.9	1308.4	599.5	431.0	410.4	407.8	410.4	416.8	416.8
22.5°	4469.3	3741.1	2174.2	898.0	445.1	388.5	378.2	374.4	375.7	379.5	382.1
25°	4371.5	3558.5	1811.4	608.5	383.4	353.8	342.2	335.8	330.6	330.6	333.2
27.5°	4309.8	3404.1	1460.2	442.6	344.8	321.6	303.6	293.3	281.7	275.3	277.9
30°	4264.8	3257.4	1130.8	361.5	308.8	285.6	262.4	245.7	229.0	221.3	223.9
32.5°	4248.0	3139.1	845.2	319.1	276.6	250.9	222.6	200.7	182.7	176.3	177.5
35°	4293.1	3045.2	618.8	288.2	250.9	218.7	186.5	162.1	147.9	144.1	145.4
37.5°	4411.4	2995.0	463.1	262.4	227.7	191.7	155.7	132.5	123.5	123.5	124.8
40°	4635.3	2993.7	371.8	244.4	207.1	166.0	128.7	111.9	106.8	109.4	110.6
42.5°	4962.0	3061.9	324.2	227.7	189.1	141.5	106.8	95.2	93.9	96.5	97.8
45°	5408.5	3186.7	298.5	213.6	169.8	118.4	90.1	82.3	82.3	86.2	87.5
47.5°	5955.2	3369.3	276.6	199.4	150.5	99.1	77.2	72.0	73.3	77.2	78.5
50°	6613.9	3599.6	254.7	184.0	136.4	82.3	66.9	63.0	64.3	69.5	70.8
52.5°	7363.9	3909.7	236.7	169.8	118.4	68.2	56.6	54.0	56.6	61.8	63.0
55°	8007.2	4187.6	214.8	158.2	95.2	56.6	46.3	46.3	48.9	55.3	56.6
57.5°	8626.0	4478.3	195.5	136.4	74.6	45.0	38.6	39.9	43.7	50.2	51.5
60°	9534.3	4971.0	172.4	114.5	56.6	36.0	32.2	33.4	38.6	45.0	46.3
62.5°	11076.8	5721.1	149.2	95.2	43.7	28.3	25.7	28.3	34.7	42.5	43.7
65°	12468.8	6026.0	122.2	79.8	33.4	21.9	21.9	25.7	33.4	41.2	42.5
67.5°	11693.0	5072.7	95.2	63.0	25.7	16.7	18.0	24.4	32.2	41.2	42.5
69°	10340.9	4147.7	81.0	50.2	21.9	15.4	16.7	24.4	32.2	39.9	41.2
70°	9287.3	3501.9	72.0	42.5	19.3	15.4	16.7	23.2	32.2	39.9	41.2
72.5°	6220.2	1891.2	57.9	30.9	18.0	14.2	14.2	23.2	30.9	38.6	39.9
75°	2673.4	522.3	46.3	21.9	15.4	12.9	12.9	21.9	29.6	37.3	39.9
77.5°	488.9	132.5	37.3	19.3	15.4	12.9	11.6	20.6	28.3	36.0	37.3
80°	194.3	65.6	29.6	16.7	14.2	11.6	10.3	19.3	27.0	34.7	36.0
82.5°	117.1	37.3	24.4	15.4	14.2	10.3	9.0	16.7	25.7	33.4	34.7
85°	95.2	25.7	19.3	15.4	12.9	10.3	7.7	15.4	23.2	32.2	33.4
87.5°	46.3	18.0	18.0	14.2	12.9	10.3	7.7	14.2	21.9	30.9	32.2
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)