

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: P191062

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191062  
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-04-LED-E1-SL2-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA 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: 22317.7 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

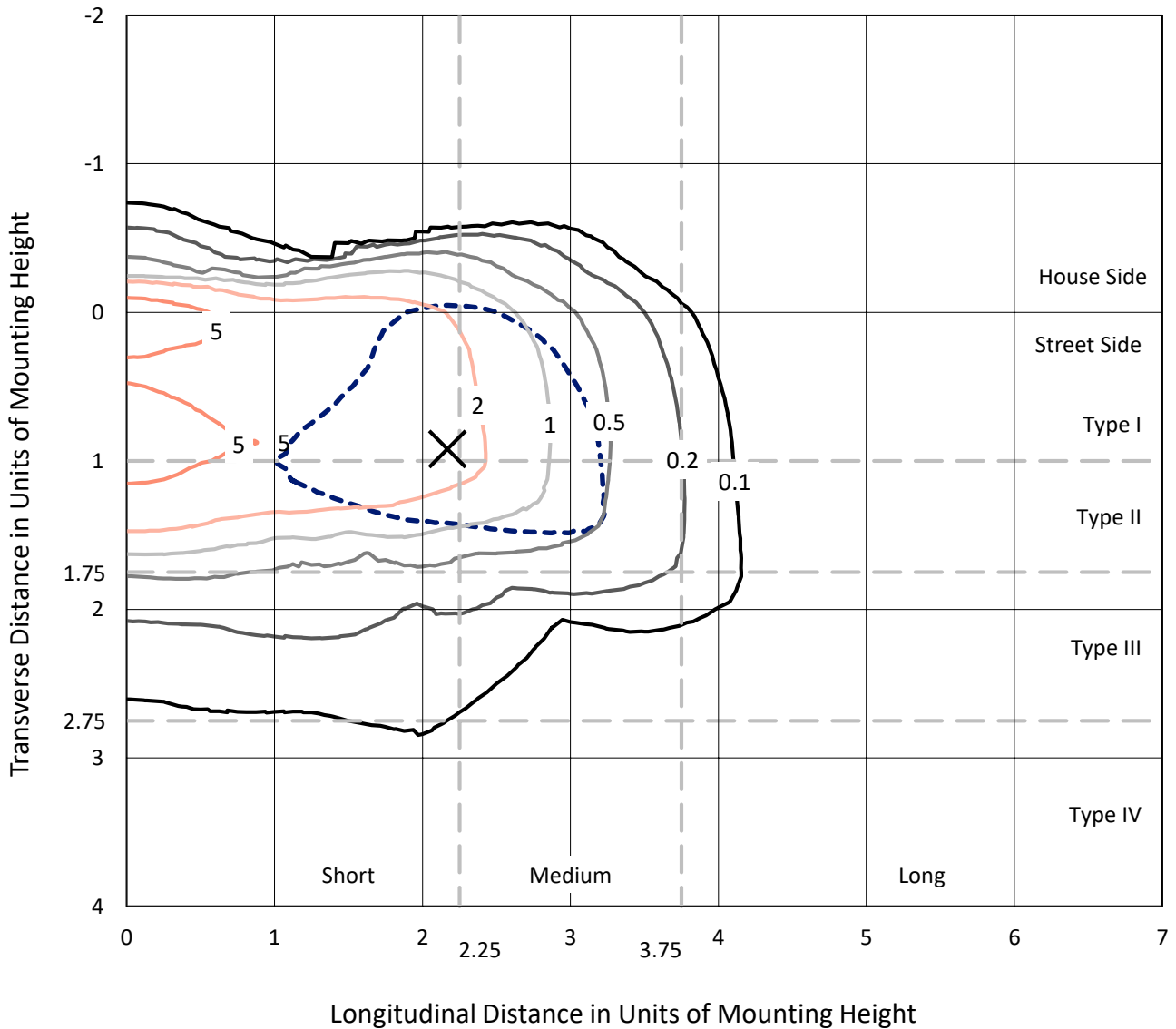


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### Iso-Footcandle Lines of Horizontal Illumination

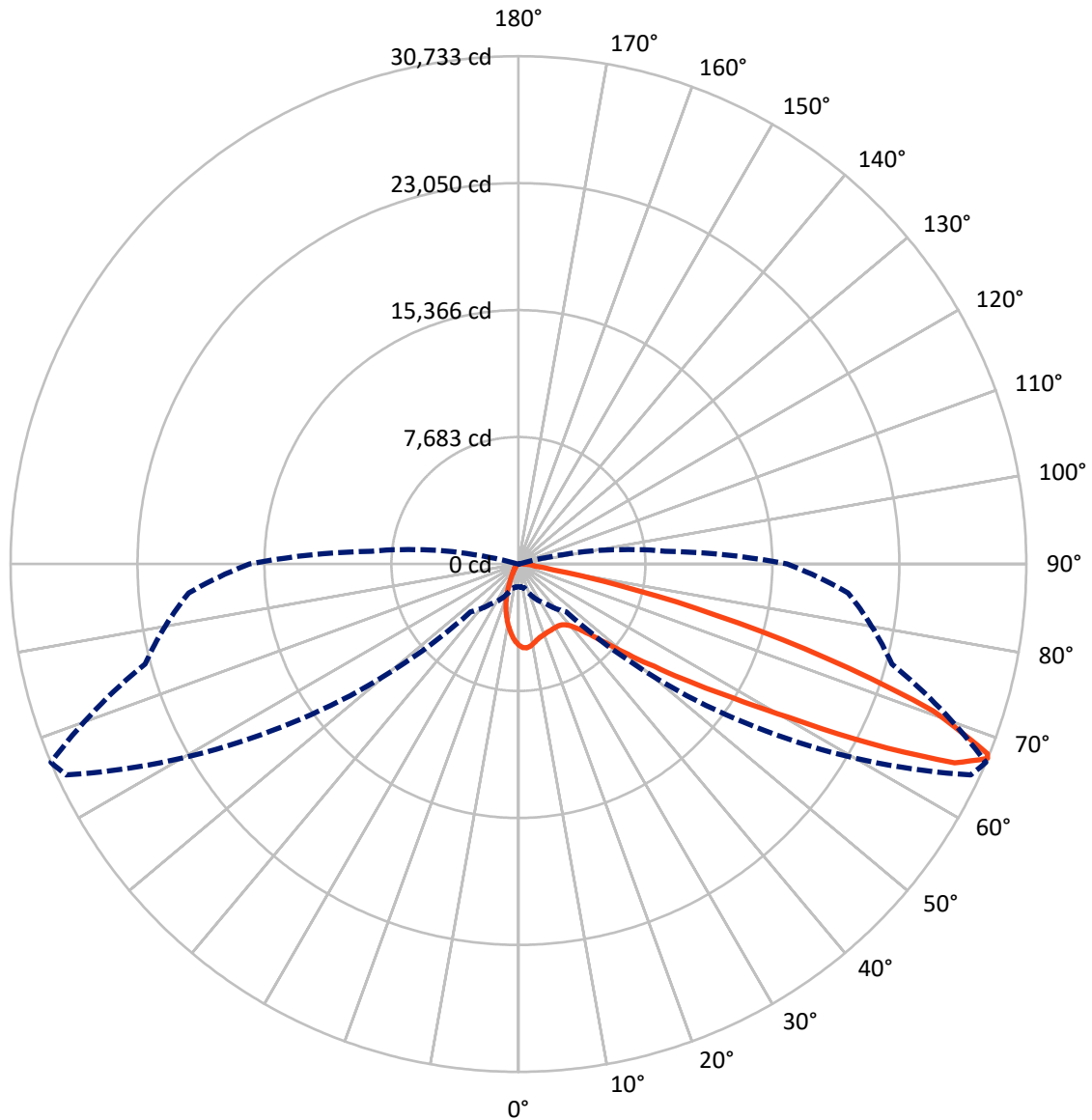
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	2317.2	0.0	2317.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	20000.5	0.0	20000.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	22317.7	0.0	22317.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.5	1.8
10°-20°	852.4	3.8
20°-30°	1239.3	5.6
30°-40°	1933.4	8.7
40°-50°	3424.8	15.3
50°-60°	5419.5	24.3
60°-70°	6207.2	27.8
70°-80°	2574.7	11.5
80°-90°	266.0	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°	22317.7	100.0
0°-180°	22317.7	100.0

**Coefficient of Utilization**



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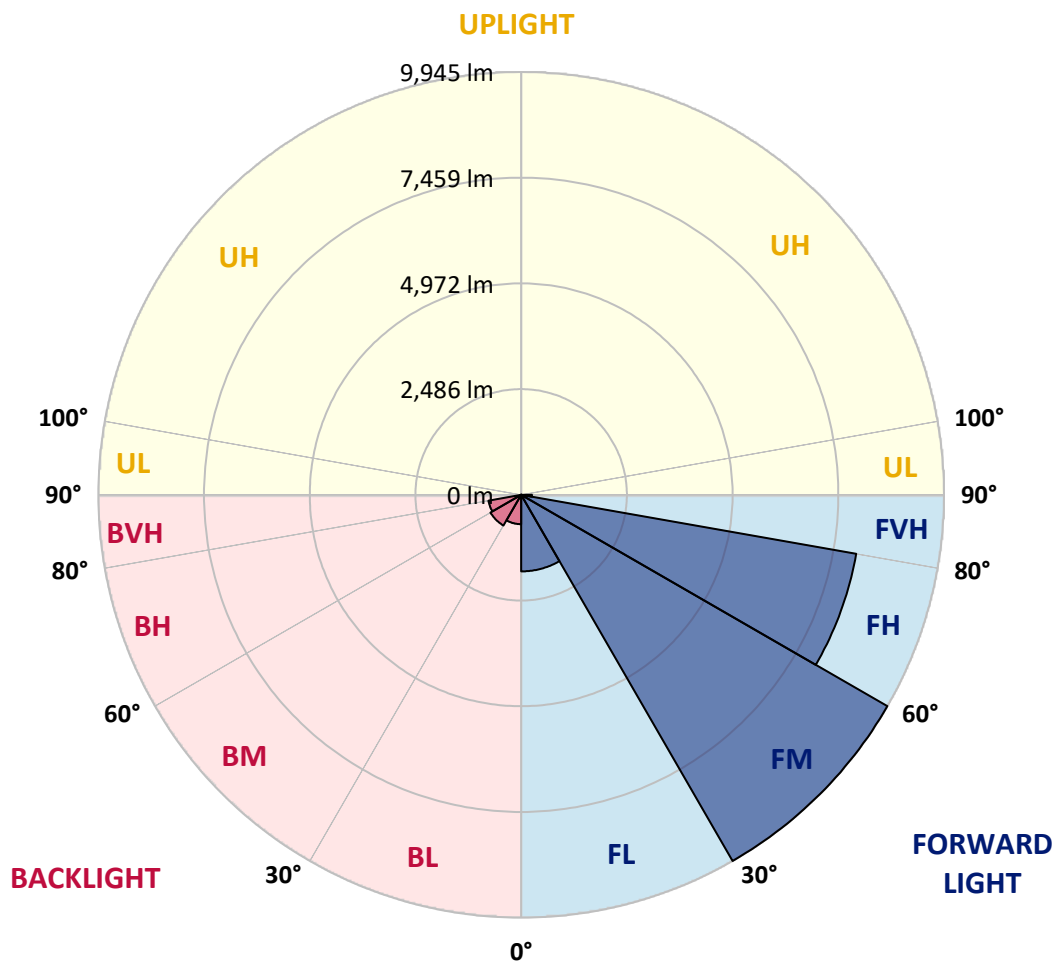
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1800.7	8.1			
FM	(30°-60°)	9944.8	44.6			
FH	(60°-80°)	8001.0	35.9			G4/12000
FVH	(80°-90°)	254.0	1.1			G3/500
BL	(0°-30°)	691.5	3.1	B2/1000		
BM	(30°-60°)	832.8	3.7	B1/1000		
BH	(60°-80°)	781.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.0	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°	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9
2.5°	5088.5	5098.9	5097.6	5105.4	5123.7	5125.0	5106.8	5071.6	5063.8	5018.2	4938.8
5°	4692.8	4722.8	4741.0	4815.1	4898.4	4998.6	5074.1	5101.6	5097.6	5065.0	4945.4
7.5°	4241.1	4271.0	4291.8	4379.0	4489.7	4661.5	4858.1	5019.5	5033.8	5069.0	4940.1
10°	3940.4	3945.6	3974.2	4057.5	4173.3	4349.1	4583.4	4865.9	4908.8	5037.7	4927.0
12.5°	3693.1	3696.9	3734.7	3824.5	3948.2	4125.3	4371.3	4698.0	4764.4	4998.6	4924.5
15°	3517.3	3531.6	3565.5	3659.2	3790.6	3966.4	4219.0	4574.3	4653.7	4984.3	4947.9
17.5°	3458.7	3474.4	3484.8	3552.4	3672.2	3844.0	4103.1	4493.6	4583.4	4992.2	4993.4
20°	3519.9	3531.6	3508.2	3525.1	3599.4	3752.9	4005.5	4424.6	4531.4	5001.3	5052.0
22.5°	3747.7	3752.9	3689.2	3614.9	3601.9	3686.5	3928.6	4369.9	4484.5	5026.1	5121.1
25°	4138.2	4129.1	4025.0	3864.9	3713.8	3674.8	3883.1	4336.1	4461.1	5052.0	5192.6
27.5°	4609.4	4622.5	4479.3	4246.3	3958.6	3752.9	3876.6	4321.8	4450.7	5070.3	5255.1
30°	5182.3	5200.5	5036.4	4743.5	4330.9	3945.6	3936.4	4319.2	4444.1	5058.6	5260.3
32.5°	5766.7	5788.9	5660.0	5358.0	4828.1	4268.4	4071.9	4347.8	4457.2	5018.2	5230.3
35°	6378.5	6409.8	6323.9	6064.8	5502.5	4734.4	4310.1	4435.0	4518.4	5014.3	5200.5
37.5°	7223.4	7252.0	7090.6	6815.9	6318.7	5359.2	4692.8	4599.1	4662.8	5076.8	5208.3
40°	8484.8	8480.9	8064.3	7643.8	7215.6	6153.4	5230.3	4895.8	4928.4	5265.5	5304.6
42.5°	9859.4	9852.9	9237.1	8598.0	8211.3	7130.9	5937.2	5408.8	5386.6	5613.1	5554.5
45°	10919.0	10917.6	10415.3	9695.3	9410.3	8253.1	6851.1	6122.1	6088.2	6178.1	6015.4
47.5°	11370.7	11378.5	11126.0	10619.6	10739.3	9770.8	8003.1	7155.6	7104.9	7068.5	6821.1
50°	11019.2	11034.9	11055.6	10956.7	11714.3	11810.7	9548.2	8612.3	8587.6	8424.8	8038.2
52.5°	9871.1	9950.5	10195.2	10509.0	12052.8	13768.5	11970.8	10421.7	10288.9	10115.9	9690.1
55°	7936.7	8023.9	8488.7	9250.1	11549.0	15054.7	15365.7	12754.5	12533.2	12016.4	11401.9
57.5°	5252.5	5387.9	6062.2	7030.7	10085.9	15261.6	18752.8	15991.9	15221.2	13806.3	13113.7
60°	2893.7	3023.9	3755.6	4632.9	7284.5	14238.5	21030.9	20207.0	18845.3	15807.0	15192.7
62.5°	1782.1	1852.4	2392.6	3208.8	4368.6	11237.9	21502.1	25503.7	23927.3	18383.1	17703.7
65°	1418.9	1448.8	1713.1	2623.1	3132.0	6684.5	19980.4	29541.7	29015.8	21502.1	19951.7
67°	1377.2	1389.0	1514.0	2252.0	2952.3	4097.8	16739.1	30199.0	30732.8	23389.7	20022.1
67.5°	1386.3	1399.4	1517.9	2149.2	2947.1	3765.9	15622.2	29940.0	30614.4	23539.3	19710.9
70°	1336.9	1377.2	1737.8	2147.9	2802.7	3129.4	9355.6	25941.1	26642.8	21871.8	16724.7
72.5°	473.8	476.4	751.2	1737.8	3047.4	3163.3	4698.0	19017.2	19536.5	16731.3	12058.0
75°	281.2	239.5	249.9	494.7	2912.0	3072.1	2710.2	12151.7	12345.7	9587.3	6106.5
77.5°	194.0	169.2	174.4	218.7	1109.1	3029.2	2153.1	6336.9	6129.9	3362.4	1300.5
80°	110.7	97.6	104.1	191.4	403.6	2826.1	2030.8	2569.7	2190.9	570.2	359.3
82.5°	58.6	49.5	59.8	157.5	281.2	1761.2	2034.6	1241.9	984.1	192.6	244.7
85°	20.9	16.9	28.6	108.0	187.4	540.2	1886.2	1044.0	820.1	93.7	186.2
87.5°	3.9	3.9	11.8	44.3	75.5	165.3	1115.6	619.6	415.2	56.0	127.6
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°	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9	4921.9
2.5°	4906.3	4850.3	4774.8	4682.4	4573.0	4476.6	4405.1	4330.9	4315.3	4289.2	4285.3
5°	4873.7	4777.4	4590.0	4375.2	4146.0	3939.1	3771.1	3621.5	3555.1	3497.8	3491.2
7.5°	4825.6	4681.0	4362.2	4015.9	3657.9	3332.5	3056.5	2861.2	2681.6	2595.6	2582.6
10°	4769.6	4562.6	4105.7	3625.3	3130.6	2671.1	2261.1	1917.4	1709.1	1585.5	1569.9
12.5°	4717.5	4446.8	3844.0	3220.6	2563.1	1948.7	1421.5	1093.4	874.7	786.2	775.8
15°	4692.8	4353.1	3599.4	2806.6	1969.5	1240.5	777.1	601.4	529.8	509.0	507.7
17.5°	4690.1	4273.6	3359.8	2378.3	1379.9	721.2	506.4	462.1	447.8	442.6	442.6
20°	4688.9	4198.1	3120.3	1934.4	876.1	480.4	421.8	411.3	400.9	394.4	394.4
22.5°	4703.2	4130.5	2870.3	1481.3	552.0	389.2	371.0	360.6	347.6	338.5	337.2
25°	4717.5	4078.4	2615.2	1054.5	399.7	338.5	320.2	305.9	287.7	276.0	274.7
27.5°	4720.1	4013.2	2341.8	705.5	334.5	295.5	272.1	249.9	229.1	217.4	216.0
30°	4681.0	3903.9	2038.5	476.4	295.5	256.5	225.2	201.7	182.3	173.1	173.1
32.5°	4604.3	3768.6	1705.3	359.3	263.0	220.0	186.2	164.0	151.0	147.1	145.8
35°	4535.3	3622.8	1362.9	304.6	235.6	186.2	152.3	138.0	130.2	128.9	127.6
37.5°	4494.9	3505.6	1041.4	276.0	209.6	156.2	128.9	118.5	114.6	111.9	113.2
40°	4526.1	3408.0	769.4	252.6	183.5	130.2	109.4	104.1	100.2	98.9	98.9
42.5°	4662.8	3391.1	571.4	231.7	158.8	108.0	95.0	91.1	88.5	87.3	88.5
45°	5022.1	3495.2	443.9	212.2	134.1	91.1	80.7	79.4	78.2	78.2	78.2
47.5°	5562.3	3709.9	369.7	190.1	111.9	78.2	70.3	68.9	67.7	68.9	68.9
50°	6477.4	4103.1	330.6	168.0	92.4	66.4	59.8	59.8	59.8	59.8	61.2
52.5°	7869.0	4876.3	304.6	145.8	75.5	56.0	50.7	50.7	52.1	52.1	53.4
55°	9419.4	5902.1	281.2	123.7	63.8	46.9	41.6	43.0	44.3	45.5	45.5
57.5°	11101.3	7038.5	261.7	101.6	54.6	37.7	35.2	36.4	37.7	40.3	40.3
60°	13130.7	8268.6	233.0	79.4	45.5	30.0	27.3	30.0	33.9	36.4	37.7
62.5°	15359.2	9458.4	196.6	62.5	37.7	23.4	22.1	27.3	32.5	35.2	36.4
65°	16882.3	9832.1	151.0	50.7	28.6	16.9	18.2	24.8	31.2	35.2	35.2
67°	16265.2	8914.3	123.7	43.0	23.4	13.0	16.9	24.8	31.2	33.9	35.2
67.5°	15837.0	8555.0	118.5	41.6	22.1	13.0	16.9	24.8	31.2	35.2	35.2
70°	12885.9	6426.7	98.9	31.2	18.2	11.8	14.3	23.4	30.0	33.9	33.9
72.5°	8953.4	3962.5	88.5	22.1	15.7	10.4	13.0	22.1	28.6	32.5	33.9
75°	4256.7	1434.5	75.5	16.9	14.3	9.1	11.8	22.1	28.6	32.5	32.5
77.5°	868.3	333.3	61.2	14.3	11.8	9.1	10.4	20.9	27.3	31.2	31.2
80°	285.1	128.9	45.5	13.0	11.8	9.1	10.4	19.5	27.3	30.0	31.2
82.5°	205.7	65.1	30.0	13.0	11.8	9.1	9.1	19.5	26.1	30.0	30.0
85°	157.5	45.5	19.5	13.0	11.8	9.1	9.1	18.2	24.8	28.6	28.6
87.5°	104.1	18.2	15.7	13.0	11.8	9.1	9.1	18.2	23.4	27.3	28.6
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)