

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: P269556

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33489.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

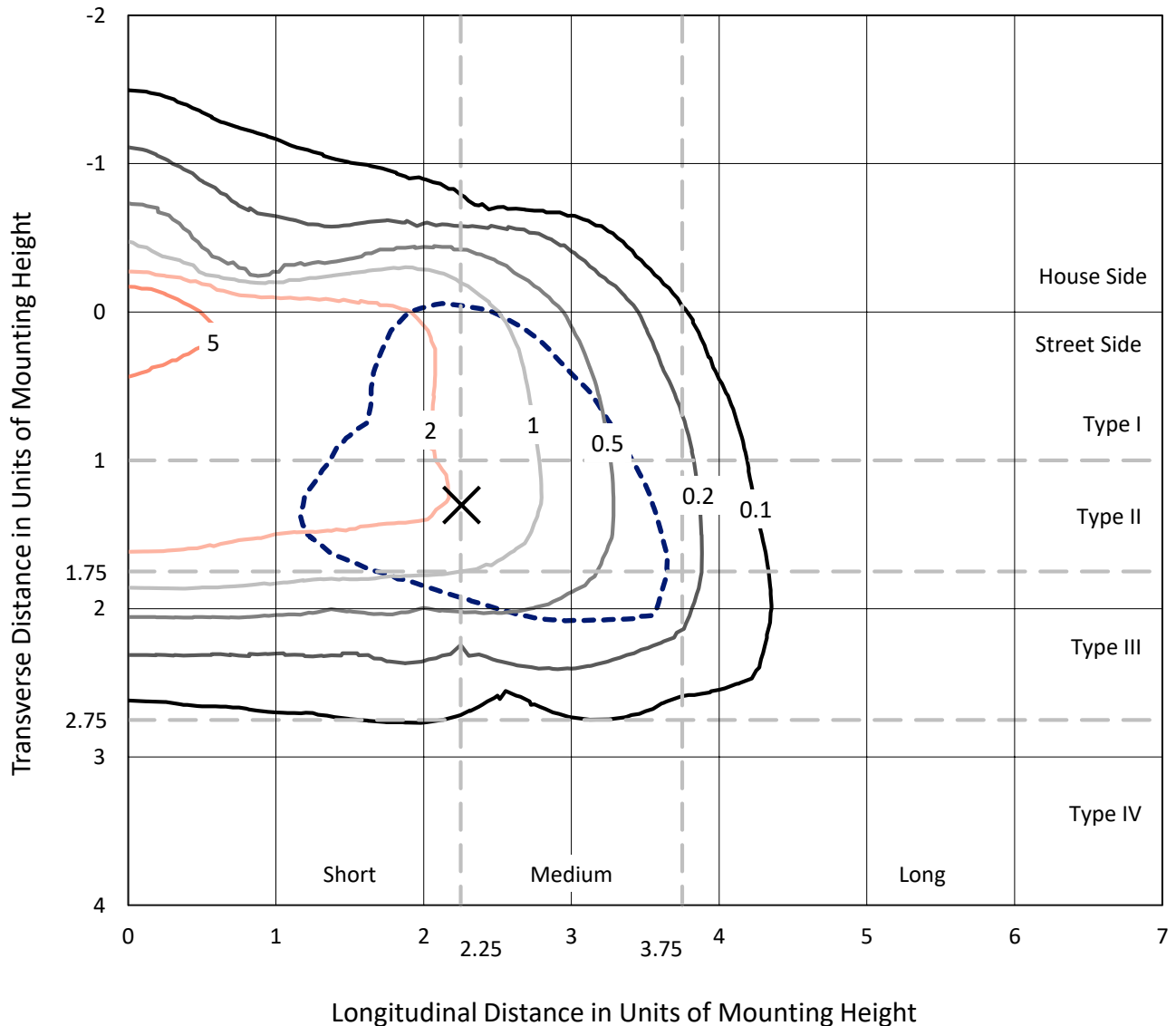


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Iso-Footcandle Lines of Horizontal Illumination

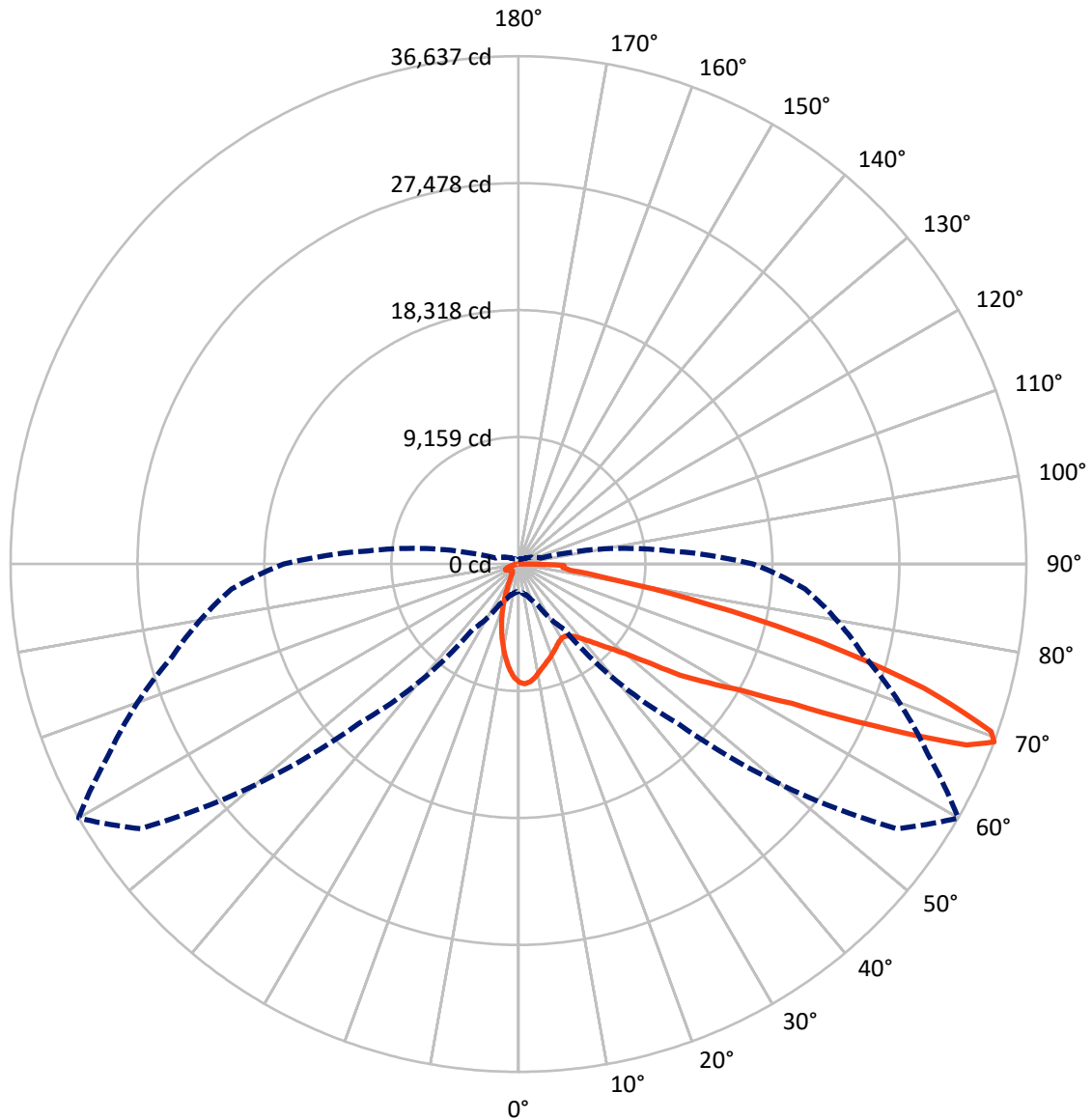
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.4	0.0	4764.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28724.7	0.0	28724.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	33489.1	0.0	33489.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.5	2.2
10°-20°	1537.3	4.6
20°-30°	1958.8	5.8
30°-40°	2692.8	8.0
40°-50°	4369.4	13.0
50°-60°	7007.4	20.9
60°-70°	9326.3	27.8
70°-80°	5035.5	15.0
80°-90°	840.2	2.5
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°	33489.1	100.0
0°-180°	33489.1	100.0

Coefficient of Utilization



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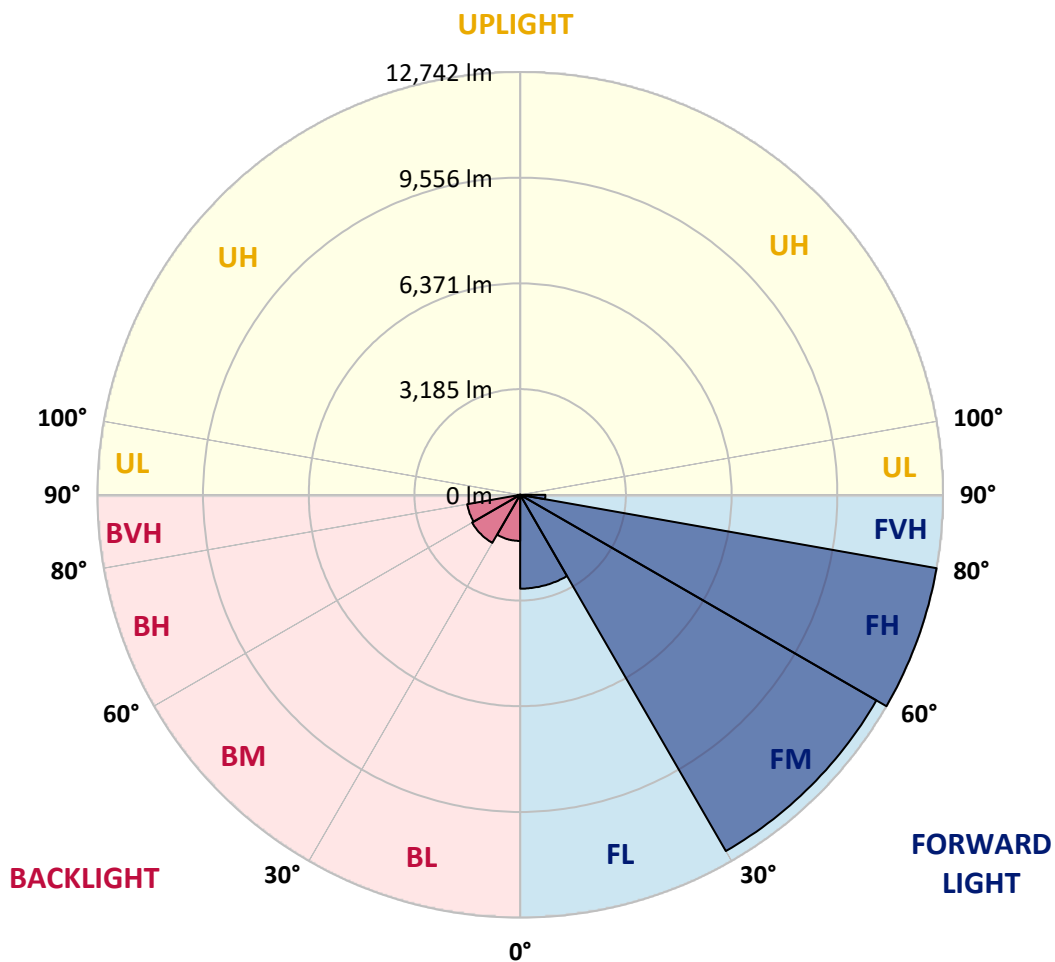
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2827.7	8.4			
FM	(30°-60°)	12395.7	37.0			
FH	(60°-80°)	12742.0	38.0			G5
FVH	(80°-90°)	759.3	2.3			G5
BL	(0°-30°)	1389.9	4.2	B3/2500		
BM	(30°-60°)	1673.8	5.0	B2/2500		
BH	(60°-80°)	1619.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	80.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4
2.5°	8708.3	8727.7	8719.6	8714.7	8729.3	8706.6	8659.8	8645.2	8622.6	8569.1	8478.6
5°	8381.5	8439.8	8436.5	8480.2	8552.9	8572.3	8551.3	8554.6	8512.5	8446.1	8295.8
7.5°	7817.0	7841.1	7854.2	7949.6	8082.2	8188.9	8279.6	8308.7	8289.3	8232.6	8038.6
10°	7234.5	7254.0	7284.6	7396.3	7564.4	7711.7	7883.3	7981.9	8023.9	8014.3	7797.5
12.5°	6734.7	6754.0	6794.5	6920.6	7121.3	7302.4	7551.6	7674.5	7774.8	7834.7	7601.7
15°	6286.5	6328.6	6367.4	6513.0	6737.8	6975.7	7257.1	7412.5	7567.7	7702.0	7428.7
17.5°	5937.1	5979.2	6001.8	6134.4	6373.8	6665.1	6995.1	7177.8	7372.0	7592.0	7257.1
20°	5734.9	5754.3	5744.7	5819.0	6034.2	6343.1	6734.7	6946.6	7181.1	7488.5	7085.7
22.5°	5678.2	5679.9	5644.3	5636.1	5775.4	6035.7	6456.4	6713.7	7001.6	7420.4	6938.5
25°	5815.7	5810.9	5713.8	5634.6	5649.1	5801.2	6187.9	6487.1	6851.2	7405.9	6825.2
27.5°	6121.5	6136.1	5992.1	5843.2	5696.1	5691.2	5984.0	6299.5	6728.1	7472.3	6776.6
30°	6550.3	6574.4	6420.7	6231.5	5954.9	5726.8	5904.6	6187.9	6652.0	7609.8	6768.5
32.5°	7019.4	7045.2	6928.7	6729.7	6367.4	5946.8	5959.7	6197.5	6648.9	7802.3	6823.5
35°	7519.3	7548.4	7488.5	7320.3	6917.4	6352.9	6170.0	6354.4	6754.0	8096.8	6970.8
37.5°	8077.3	8122.7	8138.9	7978.7	7548.4	6888.4	6514.6	6652.0	6991.9	8506.1	7241.0
40°	8881.4	8944.5	8939.7	8709.8	8271.5	7611.3	7046.8	7082.4	7362.2	9052.8	7673.0
42.5°	10421.4	10434.4	10031.6	9531.6	9067.4	8371.8	7674.5	7645.5	7873.6	9745.3	8308.7
45°	12380.5	12327.1	11430.9	10465.2	9899.0	9245.4	8491.5	8349.0	8522.2	10589.7	9104.6
47.5°	14006.4	13883.3	12751.0	11417.9	10778.9	10195.0	9450.8	9201.7	9297.1	11547.4	10133.5
50°	14570.9	14478.7	13540.4	12210.7	11612.1	11353.3	10631.7	10279.0	10304.9	12689.5	11338.6
52.5°	14449.5	14436.7	13810.6	12733.1	12391.8	12569.8	12304.4	11827.3	11574.9	13957.9	12639.3
55°	14163.2	14190.7	13964.2	13341.4	13283.1	13744.2	14490.0	14137.3	13352.8	15237.4	13983.6
57.5°	13168.3	13239.5	13737.8	14106.7	14718.1	15404.0	16250.1	16149.8	15266.5	16620.6	15582.0
60°	10609.2	10774.1	12110.3	13957.9	16195.2	18340.2	18718.8	18485.9	17240.2	18337.0	17693.1
62.5°	7433.5	7605.1	9193.6	12084.4	15952.5	21656.6	23132.0	22127.3	20074.5	20865.6	20425.5
65°	3979.6	4062.1	5275.4	8384.7	13467.6	22340.8	29581.8	28053.1	24562.0	23982.9	22763.1
67.5°	2195.3	2240.6	2704.8	4233.6	8625.7	19673.2	33690.9	34846.0	30170.7	26058.5	22337.7
69°	1985.0	2027.0	2331.1	3206.3	5772.1	16266.2	33289.7	36636.7	32629.7	25853.0	20765.2
70°	1941.2	1980.1	2253.5	2955.7	4672.1	13407.7	31945.3	36179.0	33215.3	25116.9	19393.4
72.5°	1747.2	1789.2	2054.6	2654.8	3992.5	6684.5	25304.5	30589.8	30156.1	21777.9	14710.0
75°	1629.0	1668.0	2117.7	2599.7	3822.6	4230.4	16682.1	22544.8	22167.7	15234.1	7931.8
77.5°	697.3	694.0	981.9	2200.0	3879.3	4096.1	8963.8	14083.9	12849.6	6511.4	2277.7
80°	466.0	457.9	466.0	647.0	3557.4	4118.8	4696.2	7148.7	5400.0	1659.8	1122.7
82.5°	401.3	394.7	409.3	394.7	1250.5	4701.1	3992.5	3801.6	2567.4	943.1	556.5
85°	270.2	258.8	352.7	354.3	590.5	4176.9	4497.4	3211.3	2077.2	559.7	275.1
87.5°	129.4	126.2	205.4	250.7	346.1	1697.0	5045.7	3290.5	2094.9	286.3	131.1
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°	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4	8533.4
2.5°	8451.1	8384.7	8320.0	8242.4	8161.6	8070.8	8025.5	7980.3	7969.0	7956.0	7910.7
5°	8218.1	8124.2	7962.4	7784.5	7596.8	7414.2	7275.0	7187.6	7121.3	7087.3	7027.4
7.5°	7917.2	7779.7	7496.5	7189.1	6873.7	6585.7	6336.6	6179.7	6031.0	5961.3	5882.1
10°	7630.8	7425.4	6985.4	6532.5	6079.4	5644.3	5235.1	4945.3	4688.2	4544.3	4442.3
12.5°	7385.0	7103.4	6493.6	5880.5	5259.2	4639.7	4026.6	3544.4	3141.6	2929.7	2821.3
15°	7145.5	6805.7	6026.1	5247.9	4450.5	3607.6	2802.0	2255.1	1921.8	1789.2	1743.9
17.5°	6928.7	6493.6	5556.9	4610.6	3615.7	2596.6	1883.0	1582.2	1454.4	1410.7	1396.1
20°	6694.2	6178.2	5069.9	3944.0	2745.3	1815.0	1470.5	1337.8	1286.2	1273.2	1266.7
22.5°	6467.6	5867.5	4604.1	3230.7	1972.0	1400.9	1263.5	1208.4	1200.3	1211.6	1211.6
25°	6275.2	5589.3	4100.9	2484.8	1447.9	1179.4	1130.7	1117.9	1148.7	1190.7	1198.8
27.5°	6131.2	5361.2	3565.6	1834.5	1153.5	1025.7	1024.0	1045.1	1121.1	1202.0	1218.1
30°	6032.5	5144.5	2992.9	1323.4	967.5	902.6	928.6	973.9	1085.5	1200.3	1231.0
32.5°	5982.4	4984.2	2395.9	1024.0	828.2	792.7	836.3	891.4	1001.4	1108.1	1148.7
35°	6021.2	4866.2	1832.9	854.2	731.2	703.7	748.9	802.4	867.1	912.4	943.1
37.5°	6166.9	4819.2	1383.2	765.1	664.8	639.1	674.5	705.3	731.2	744.2	758.7
40°	6480.6	4869.4	1108.1	719.9	627.6	595.3	609.9	621.2	637.3	650.4	656.8
42.5°	6943.3	5019.8	993.3	702.0	608.2	561.4	558.0	563.0	584.0	608.2	613.2
45°	7590.4	5285.2	985.3	713.4	598.6	533.9	519.3	525.8	558.0	595.3	601.9
47.5°	8417.1	5689.5	1049.8	747.4	606.6	519.3	495.1	503.1	543.6	593.7	601.9
50°	9418.4	6254.2	1158.4	797.5	642.3	522.5	486.9	491.8	533.9	588.8	597.0
52.5°	10601.0	7054.8	1276.4	846.1	679.5	543.6	493.3	482.1	520.8	569.4	579.1
55°	11916.2	8082.2	1397.8	889.7	698.8	569.4	506.4	469.2	496.7	537.0	545.2
57.5°	13530.7	9518.7	1608.1	931.8	711.7	587.2	519.3	456.2	466.0	495.1	501.6
60°	15716.2	11550.5	1978.4	1001.4	740.9	593.7	517.7	444.9	435.1	451.4	454.6
62.5°	18335.3	13757.3	2287.4	1088.7	789.4	598.6	508.0	436.8	409.3	409.3	412.5
65°	19890.0	14347.6	2116.0	1161.5	829.9	593.7	496.7	428.8	389.9	372.1	373.6
67.5°	18571.6	12618.3	1813.5	1176.2	828.2	571.1	478.8	414.2	370.6	343.0	341.4
69°	16919.8	10887.4	1677.6	1137.3	789.4	541.9	456.2	397.9	355.9	326.8	325.1
70°	15588.5	9831.1	1588.7	1095.3	747.4	520.8	438.5	383.3	344.6	317.1	313.9
72.5°	11333.8	6441.8	1357.2	941.6	616.3	436.8	378.5	336.4	307.4	291.2	287.9
75°	5663.6	3072.1	1101.7	763.6	472.4	349.4	310.6	281.4	266.9	263.7	262.0
77.5°	1860.4	1407.5	787.9	569.4	351.1	273.4	250.7	229.7	226.6	236.2	232.9
80°	1022.5	818.5	499.8	376.8	239.4	200.6	197.4	185.9	190.9	207.1	203.8
82.5°	520.8	425.4	308.9	226.6	161.8	144.0	156.9	150.5	156.9	171.4	169.9
85°	257.3	232.9	195.7	137.5	106.8	92.3	111.6	116.5	119.7	131.1	131.1
87.5°	148.8	137.5	103.6	64.7	53.4	48.5	64.7	63.2	74.4	80.8	79.3
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)