

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: P269706

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL2-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33038.7 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

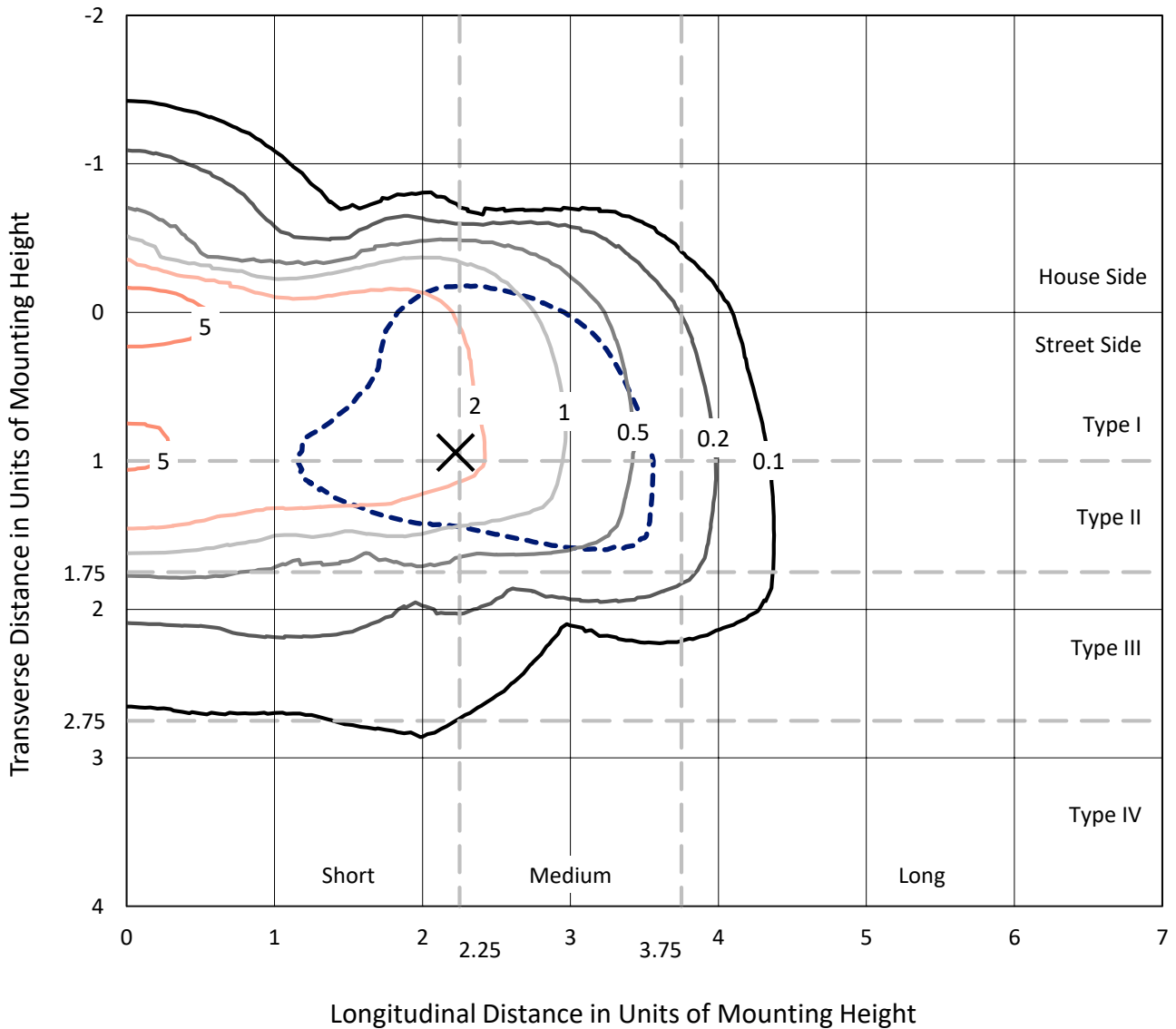
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P269706  
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

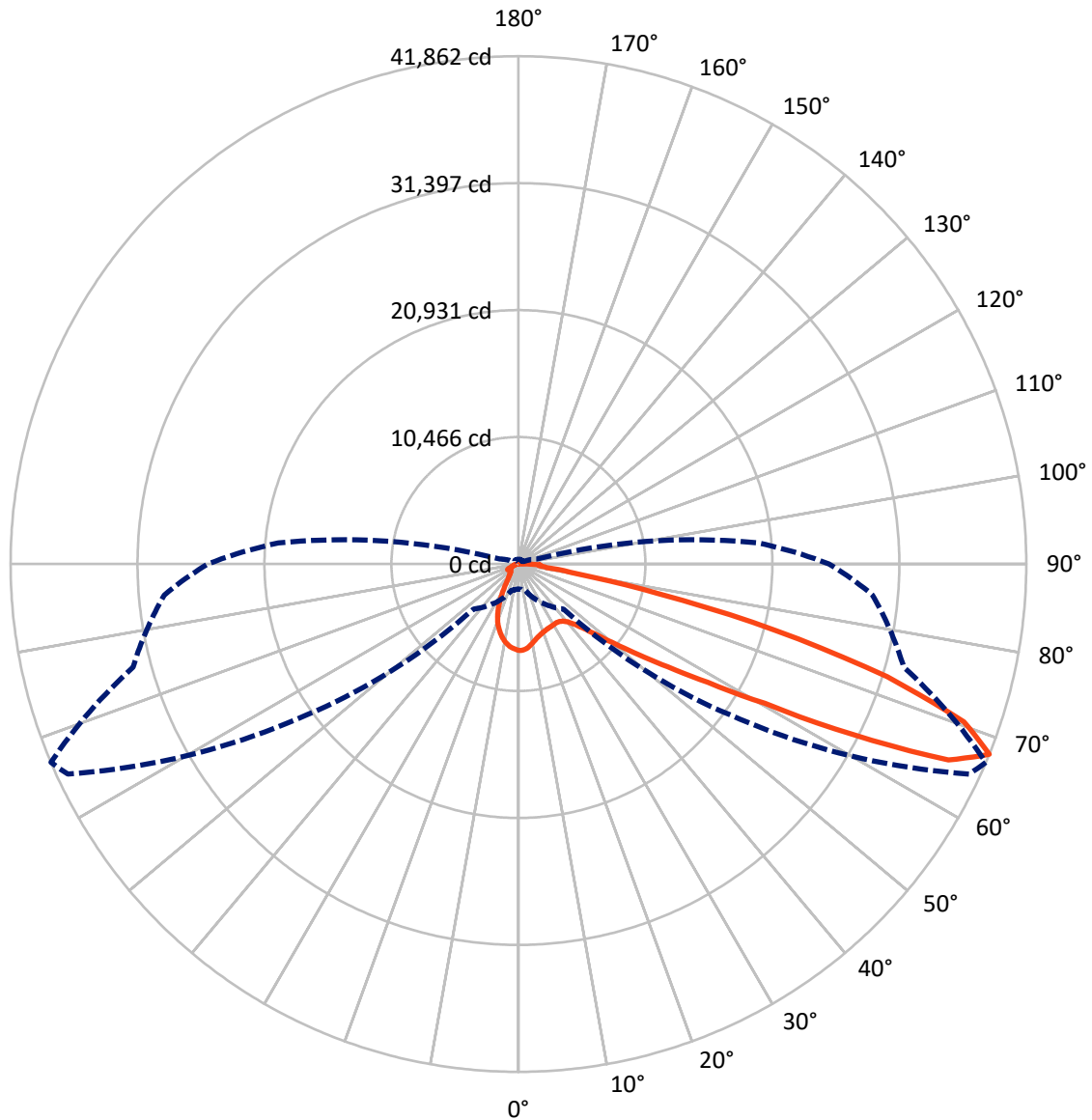
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269706  
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5474.1	0.0	5474.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	27564.5	0.0	27564.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	33038.7	0.0	33038.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.0	1.8
10°-20°	1406.8	4.3
20°-30°	1906.9	5.8
30°-40°	2710.9	8.2
40°-50°	4535.4	13.7
50°-60°	7175.0	21.7
60°-70°	9140.2	27.7
70°-80°	4787.6	14.5
80°-90°	767.9	2.3
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°	33038.7	100.0
0°-180°	33038.7	100.0



REPORT NUMBER: P269706

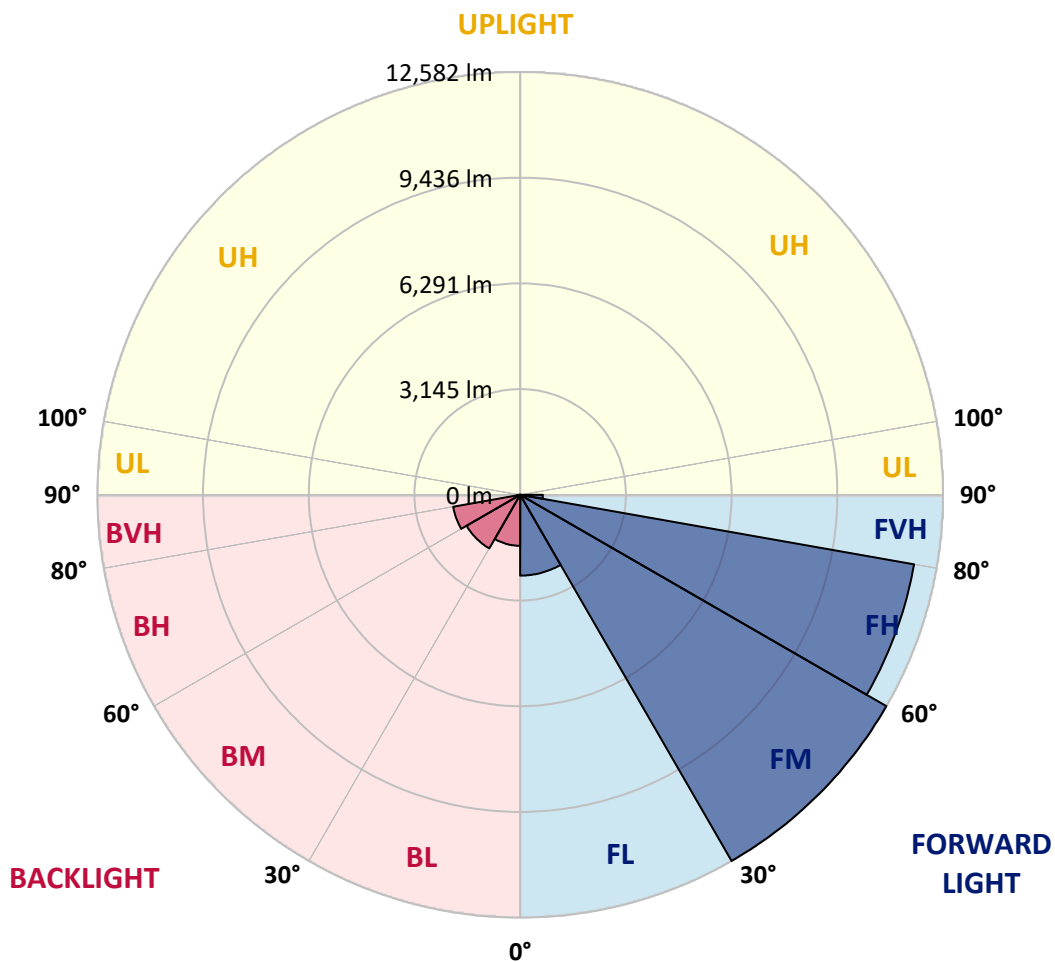
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.4	7.3			
FM (30°-60°)	12581.8	38.1			
FH (60°-80°)	11903.1	36.0			G4/12000
FVH (80°-90°)	675.2	2.0			G4/750
BL (0°-30°)	1517.3	4.6	B3/2500		
BM (30°-60°)	1839.5	5.6	B2/2500		
BH (60°-80°)	2024.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	92.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P269706

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3
2.5°	6833.0	6844.5	6880.4	6903.1	7005.8	7049.8	7080.7	7111.7	7116.6	7131.3	7116.6
5°	6116.2	6140.6	6207.5	6282.3	6481.2	6637.5	6802.1	6973.3	7004.2	7114.9	7145.8
7.5°	5560.7	5554.1	5609.6	5699.1	5902.9	6119.4	6407.9	6748.3	6815.3	7064.5	7185.1
10°	5155.0	5150.1	5208.7	5301.5	5495.6	5700.7	6026.5	6492.6	6587.1	6984.6	7222.6
12.5°	4855.2	4856.7	4915.4	5018.1	5215.2	5422.2	5752.8	6244.9	6365.5	6891.7	7261.5
15°	4656.5	4669.4	4716.7	4825.9	5018.1	5225.0	5549.2	6059.2	6194.4	6818.5	7305.6
17.5°	4589.6	4610.8	4627.1	4706.8	4871.5	5078.4	5396.1	5922.3	6065.7	6767.9	7344.7
20°	4651.6	4675.9	4645.0	4672.8	4776.9	4959.5	5275.6	5814.8	5961.4	6710.9	7349.6
22.5°	4917.1	4939.9	4848.6	4768.8	4762.4	4873.0	5176.2	5730.1	5881.7	6668.6	7351.2
25°	5384.7	5399.4	5246.2	5060.4	4879.7	4842.1	5106.1	5671.4	5832.8	6631.1	7320.3
27.5°	5958.2	5969.5	5793.6	5519.9	5156.6	4915.4	5081.6	5637.3	5805.0	6598.5	7268.0
30°	6655.5	6709.4	6473.0	6127.6	5598.1	5132.1	5130.5	5619.3	5774.0	6543.1	7165.5
32.5°	7369.1	7392.0	7229.0	6878.7	6192.7	5513.3	5267.4	5632.4	5766.0	6476.3	7035.2
35°	8092.6	8121.8	8015.9	7734.0	7005.8	6072.3	5534.5	5708.9	5816.4	6453.5	6943.9
37.5°	9029.4	9068.4	8921.7	8595.9	7994.7	6829.9	5979.4	5901.1	5971.3	6518.6	6916.2
40°	10510.3	10492.5	10063.9	9578.4	9076.6	7799.3	6614.8	6227.1	6267.7	6728.8	7000.9
42.5°	12234.0	12190.1	11452.0	10689.6	10265.9	8972.4	7455.5	6792.4	6784.2	7142.7	7299.1
45°	13609.1	13573.3	12908.6	11968.5	11629.5	10308.3	8542.2	7634.6	7574.4	7799.3	7849.7
47.5°	14353.7	14355.4	13972.4	13205.1	13196.9	12005.9	9938.5	8853.3	8749.1	8855.0	8801.2
50°	14093.0	14127.3	14086.5	13842.2	14627.5	14231.5	11761.6	10552.7	10342.5	10446.7	10239.9
52.5°	12832.0	12875.9	13117.1	13491.9	15228.6	16921.5	14440.1	12664.1	12419.7	12382.2	12152.6
55°	10596.6	10650.5	11142.4	12160.7	14728.4	18728.3	18666.3	15355.6	14966.3	14612.8	14515.1
57.5°	7303.9	7393.5	8185.4	9697.4	13110.7	19274.0	23699.2	19192.6	18400.8	17165.8	17188.6
60°	4117.1	4221.3	5155.0	6528.4	9845.6	18681.1	27527.8	25004.1	23332.5	20155.5	20325.0
62.5°	2618.2	2730.6	3439.3	4535.8	5907.7	15487.7	29096.8	33083.6	30960.8	23840.8	24007.1
65°	2119.7	2168.6	2502.5	3744.0	4289.9	9330.8	27905.8	39739.1	38947.3	28518.4	27743.0
67.5°	2069.2	2085.4	2258.2	3142.8	4113.9	5244.6	22258.8	40983.8	41862.1	32886.5	29298.8
70°	2044.7	2101.8	2544.9	2999.4	3939.5	4423.4	13376.1	37572.1	38958.8	34028.5	27228.0
72.5°	992.2	988.9	1280.7	2712.7	4438.0	4588.0	6872.3	30400.3	31791.6	29481.4	22374.5
75°	800.0	731.5	698.9	993.9	4266.9	4737.9	4379.4	20918.0	21924.8	19766.0	13754.2
77.5°	759.2	677.9	620.8	622.3	1803.5	5024.6	3709.8	11577.4	11870.7	8928.3	3768.5
80°	629.0	554.0	513.2	578.4	873.3	4785.1	4011.2	5239.6	4807.9	2193.0	1254.6
82.5°	436.7	397.5	386.1	485.5	698.9	3410.1	4664.5	2815.4	2360.7	1098.1	773.9
85°	278.7	238.0	263.9	353.6	544.2	1573.9	4804.7	2194.6	1745.0	697.4	436.7
87.5°	128.6	104.3	130.3	195.6	355.2	542.5	4571.7	2465.0	1797.1	368.2	275.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269706

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-7027-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3	7126.3
2.5°	7129.6	7098.6	7074.2	7028.6	6978.2	6929.3	6885.1	6829.9	6813.6	6798.9	6821.6
5°	7152.5	7121.5	7031.8	6891.7	6737.0	6591.9	6447.0	6323.1	6246.5	6204.2	6228.7
7.5°	7186.6	7142.7	6957.0	6699.5	6420.8	6166.8	5904.4	5694.3	5539.5	5466.1	5487.3
10°	7217.6	7132.9	6829.9	6443.7	6036.4	5658.5	5244.6	4902.4	4648.3	4514.6	4547.2
12.5°	7230.6	7095.4	6652.3	6124.4	5565.4	5011.6	4402.2	3890.6	3525.7	3392.1	3364.4
15°	7243.7	7053.0	6456.7	5761.0	4996.9	4213.2	3359.5	2746.8	2443.8	2377.1	2362.5
17.5°	7246.9	6979.7	6235.1	5366.7	4330.5	3263.5	2297.2	1907.9	1909.4	2017.1	2030.1
20°	7212.8	6870.5	5966.4	4876.4	3532.2	2256.5	1577.2	1510.3	1756.4	2025.1	2057.7
22.5°	7134.5	6725.6	5661.7	4304.5	2618.2	1485.8	1220.3	1293.6	1611.3	1940.5	1977.9
25°	7035.2	6549.6	5301.5	3641.4	1733.5	1062.2	1023.2	1112.8	1327.9	1547.8	1569.0
27.5°	6899.9	6341.0	4897.5	2882.1	1125.8	874.9	901.0	961.2	1049.2	1147.0	1156.7
30°	6725.6	6091.8	4465.7	2101.8	850.4	786.9	824.5	857.1	894.4	949.9	954.8
32.5°	6525.2	5852.3	4022.6	1451.8	754.3	741.3	770.7	786.9	816.3	850.4	853.7
35°	6357.3	5624.2	3563.1	1026.5	713.7	707.1	726.6	733.1	760.9	798.4	801.6
37.5°	6261.2	5438.5	3089.0	827.7	685.9	676.2	687.6	687.6	726.6	782.1	790.1
40°	6267.7	5335.8	2615.0	747.7	663.0	650.1	651.7	651.7	702.2	762.5	767.4
42.5°	6445.2	5361.9	2194.6	716.8	645.3	630.5	622.3	627.2	669.6	708.8	711.9
45°	6862.4	5546.0	1800.4	697.4	627.2	622.3	604.5	602.9	619.1	637.1	637.1
47.5°	7546.8	5909.3	1533.1	684.2	612.6	610.9	589.7	568.5	567.0	573.5	573.5
50°	8659.5	6534.9	1353.9	669.6	602.9	589.7	565.4	532.8	521.3	526.2	526.2
52.5°	10327.9	7651.0	1285.5	650.1	581.7	560.5	532.8	500.1	490.5	492.0	492.0
55°	12515.9	9364.9	1275.8	627.2	558.8	524.6	501.9	477.4	466.0	469.3	469.3
57.5°	15189.5	11735.5	1450.0	591.4	527.8	488.8	475.7	459.5	451.3	456.2	454.5
60°	18439.9	14837.7	2150.6	554.0	496.9	456.2	456.2	443.1	436.7	441.5	439.9
62.5°	22184.0	18400.8	3023.9	526.2	464.3	430.1	436.7	430.1	423.6	426.9	425.3
65°	25504.3	20722.6	2831.6	505.0	431.7	405.7	417.2	413.8	409.0	412.2	410.5
67.5°	25600.4	19862.2	1590.2	482.3	400.9	381.2	397.5	396.0	392.6	396.0	394.3
70°	22847.0	16771.5	896.1	439.9	368.2	352.0	374.8	373.1	369.8	376.4	374.8
72.5°	18304.7	12170.5	655.0	387.8	335.6	321.0	347.0	345.4	345.4	355.2	350.2
75°	10533.2	6262.9	523.1	332.4	301.4	290.1	312.8	314.4	317.7	330.8	321.0
77.5°	3002.8	1951.8	426.9	281.9	259.0	254.2	276.9	280.2	281.9	296.5	283.4
80°	1116.1	899.4	352.0	236.3	211.8	213.4	234.5	239.5	241.1	255.7	239.5
82.5°	711.9	593.1	285.1	182.4	166.1	164.6	190.6	197.2	197.2	198.7	189.1
85°	415.5	355.2	215.1	132.1	117.3	112.4	141.8	153.2	148.3	144.9	138.5
87.5°	278.7	244.3	132.1	73.3	63.5	60.2	83.2	91.3	87.9	83.2	78.2
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)