

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: P191103

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191103  
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-05-LED-E1-SL2-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA 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: 32703.7 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

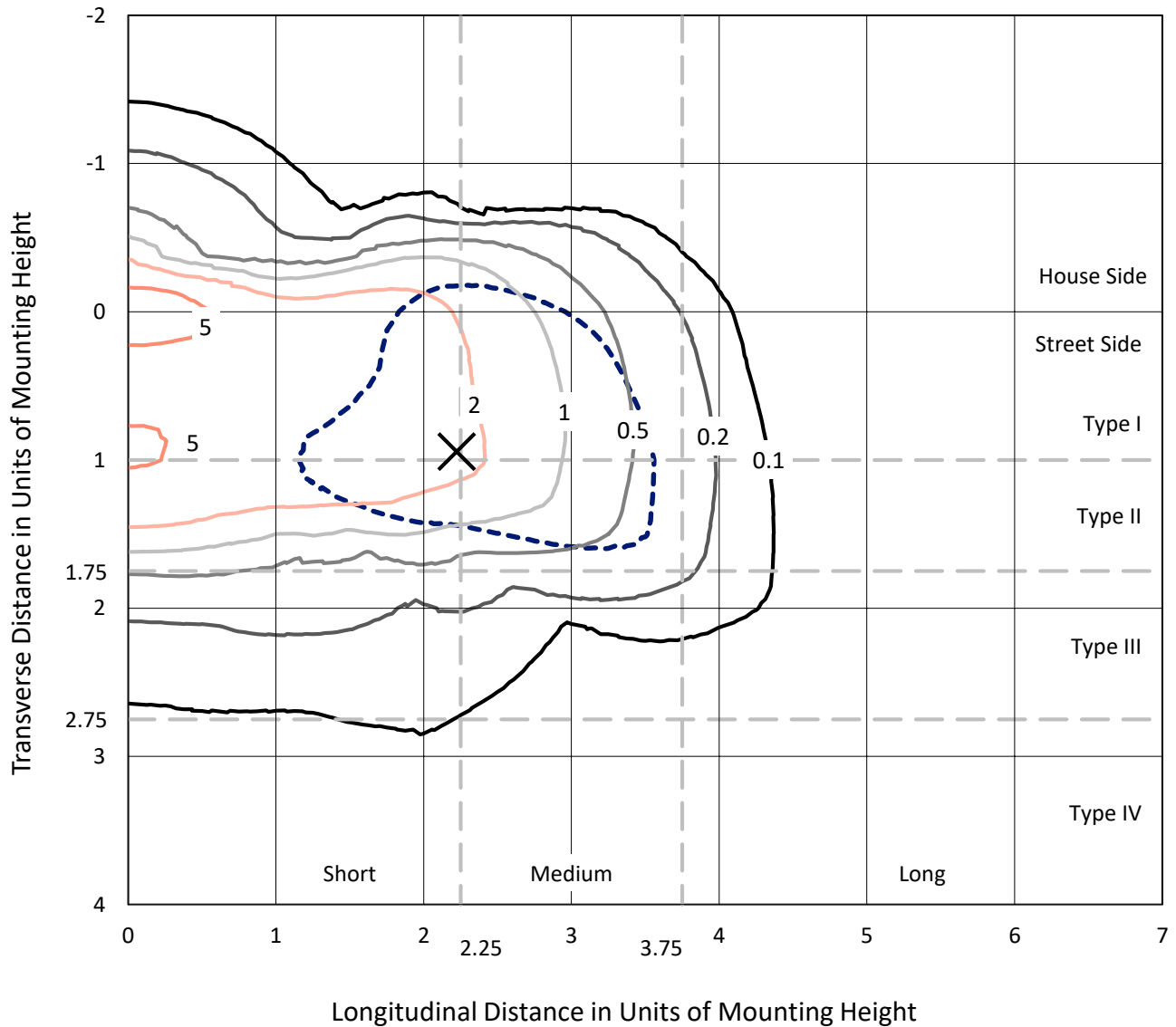
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

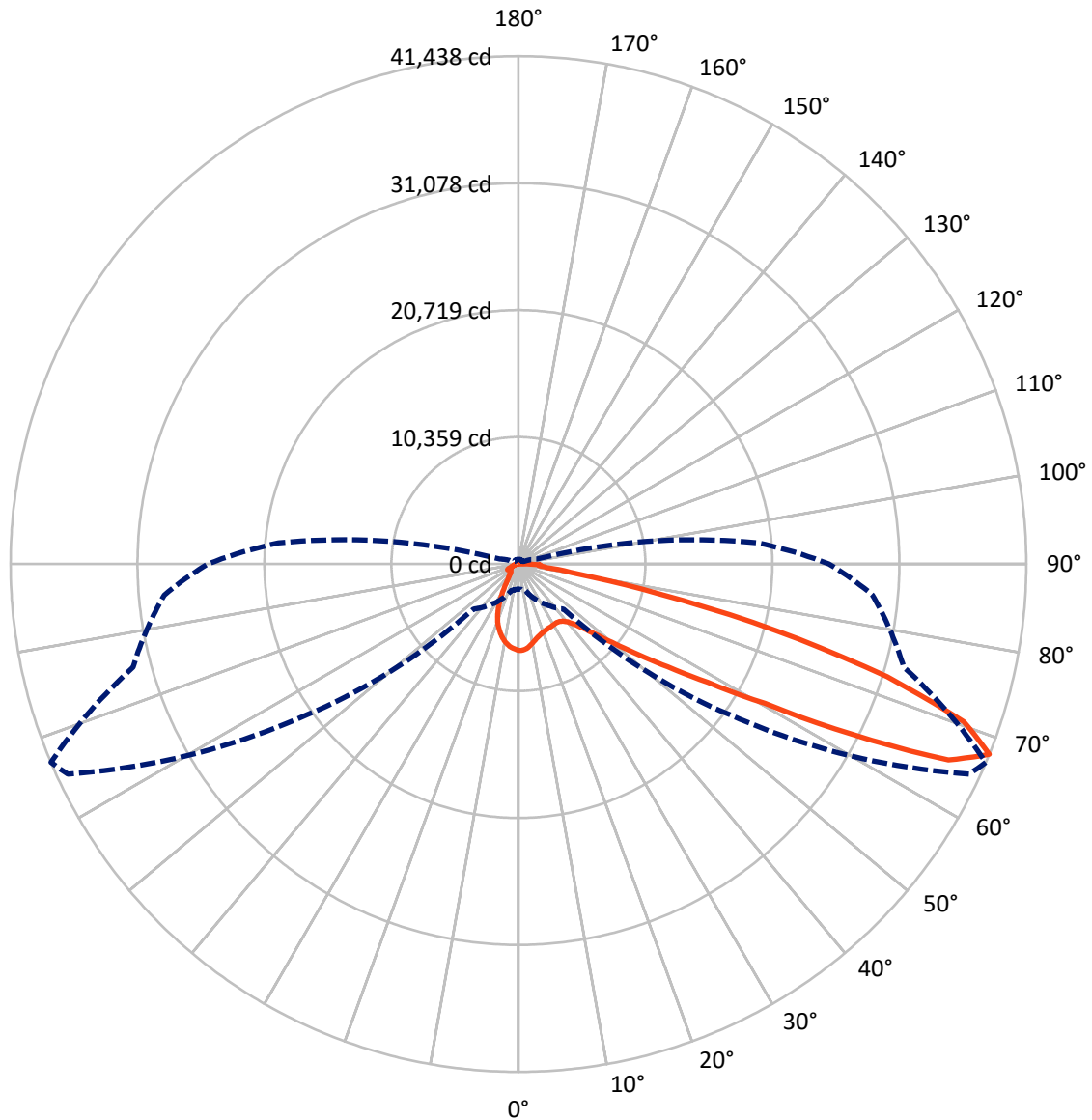
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5418.6	0.0	5418.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	27285.1	0.0	27285.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	32703.7	0.0	32703.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.8	1.8
10°-20°	1392.5	4.3
20°-30°	1887.6	5.8
30°-40°	2683.4	8.2
40°-50°	4489.4	13.7
50°-60°	7102.2	21.7
60°-70°	9047.6	27.7
70°-80°	4739.1	14.5
80°-90°	760.1	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°	32703.7	100.0
0°-180°	32703.7	100.0

**Coefficient of Utilization**



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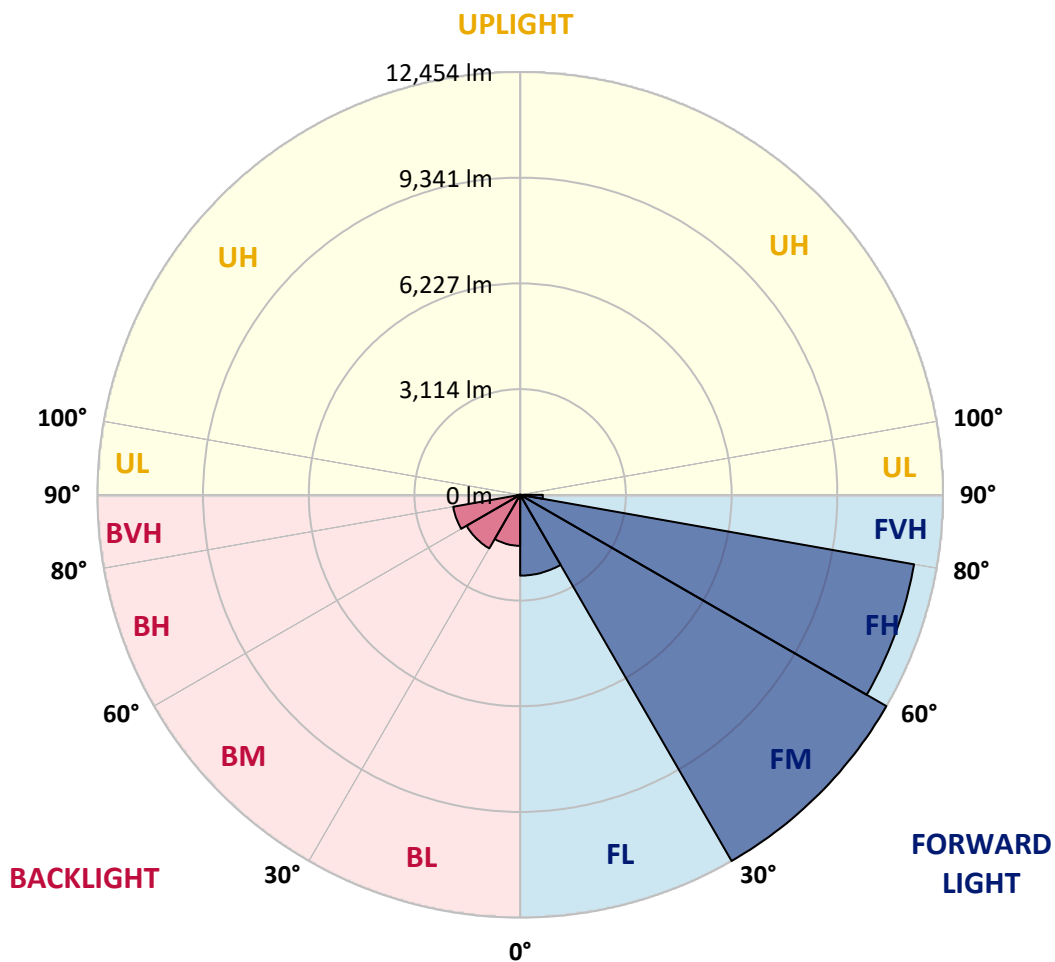
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.0	7.3			
FM (30°-60°)	12454.3	38.1			
FH (60°-80°)	11782.5	36.0			G4/12000
FVH (80°-90°)	668.3	2.0			G4/750
BL (0°-30°)	1501.9	4.6	B3/2500		
BM (30°-60°)	1820.8	5.6	B2/2500		
BH (60°-80°)	2004.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	91.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2
2.5°	6763.9	6775.1	6810.6	6833.2	6934.8	6978.4	7009.0	7039.6	7044.4	7059.0	7044.4
5°	6054.2	6078.4	6144.6	6218.7	6415.4	6570.3	6733.2	6902.6	6933.2	7042.8	7073.5
7.5°	5504.3	5497.8	5552.7	5641.4	5843.0	6057.4	6342.9	6680.0	6746.1	6992.8	7112.2
10°	5102.7	5097.9	5155.9	5247.8	5439.7	5643.0	5965.5	6426.8	6520.3	6913.8	7149.3
12.5°	4805.9	4807.6	4865.7	4967.2	5162.4	5367.2	5694.6	6181.6	6301.0	6821.9	7188.0
15°	4609.2	4622.1	4668.8	4777.0	4967.2	5172.0	5492.9	5997.8	6131.7	6749.3	7231.5
17.5°	4543.1	4564.1	4580.2	4659.2	4822.1	5026.9	5341.3	5862.3	6004.2	6699.3	7270.2
20°	4604.4	4628.5	4598.0	4625.4	4728.6	4909.1	5222.1	5755.8	5901.0	6642.8	7275.0
22.5°	4867.2	4889.8	4799.5	4720.5	4714.1	4823.7	5123.7	5672.0	5822.0	6600.9	7276.7
25°	5330.1	5344.6	5193.0	5009.2	4830.2	4793.0	5054.3	5614.0	5773.6	6563.9	7246.1
27.5°	5897.8	5909.1	5734.9	5464.0	5104.3	4865.7	5030.2	5580.1	5746.2	6531.5	7194.4
30°	6588.0	6641.3	6407.5	6065.5	5541.3	5080.1	5078.5	5562.3	5715.5	6476.7	7092.8
32.5°	7294.5	7317.0	7155.7	6809.0	6130.0	5457.5	5214.0	5575.2	5707.5	6410.6	6963.8
35°	8010.4	8039.5	7934.6	7655.7	6934.8	6010.7	5478.5	5651.0	5757.5	6388.0	6873.5
37.5°	8937.8	8976.5	8831.3	8508.8	7913.8	6760.6	5918.8	5841.4	5910.7	6452.6	6846.1
40°	10403.8	10386.0	9961.9	9481.3	8984.6	7720.2	6547.7	6163.9	6204.2	6660.6	6930.0
42.5°	12110.0	12066.5	11335.9	10581.2	10161.9	8881.4	7379.9	6723.5	6715.5	7070.2	7225.1
45°	13471.2	13435.7	12777.7	11847.2	11511.7	10203.8	8455.6	7557.3	7497.6	7720.2	7770.1
47.5°	14208.2	14209.8	13830.8	13071.3	13063.2	11884.2	9837.7	8763.6	8660.4	8765.3	8712.0
50°	13950.2	13984.0	13943.7	13701.8	14479.2	14087.3	11642.3	10445.7	10237.7	10340.9	10136.0
52.5°	12701.9	12745.5	12984.1	13355.1	15074.3	16749.9	14293.7	12535.9	12293.9	12256.8	12029.4
55°	10489.2	10542.4	11029.6	12037.5	14579.2	18538.4	18477.2	15200.0	14814.6	14464.6	14367.9
57.5°	7229.9	7318.6	8102.4	9599.1	12977.7	19078.6	23458.9	18998.0	18214.3	16991.8	17014.4
60°	4075.4	4178.7	5102.7	6462.3	9745.8	18491.7	27248.9	24750.7	23096.0	19951.2	20118.9
62.5°	2591.6	2702.9	3404.5	4489.8	5847.8	15330.7	28801.9	32748.2	30646.9	23599.2	23763.7
65°	2098.2	2146.6	2477.2	3706.0	4246.4	9236.1	27622.9	39336.2	38552.5	28229.4	27461.7
67.5°	2048.2	2064.3	2235.2	3111.0	4072.2	5191.4	22033.2	40568.4	41437.7	32553.2	29001.9
70°	2024.0	2080.5	2519.1	2969.0	3899.6	4378.5	13240.6	37191.3	38563.8	33683.6	26952.1
72.5°	982.1	979.0	1267.6	2685.2	4393.1	4541.5	6802.5	30092.0	31469.3	29182.5	22147.7
75°	791.9	724.1	691.8	983.8	4223.8	4689.8	4335.1	20706.0	21702.6	19565.8	13614.8
77.5°	751.6	670.9	614.5	616.0	1785.3	4973.7	3672.2	11460.1	11750.4	8837.8	3730.3
80°	622.6	548.3	508.0	572.5	864.4	4736.6	3970.6	5186.6	4759.2	2170.7	1241.8
82.5°	432.2	393.5	382.2	480.6	691.8	3375.4	4617.3	2786.8	2336.8	1087.0	766.1
85°	275.8	235.5	261.3	350.0	538.7	1558.0	4756.0	2172.3	1727.3	690.3	432.2
87.5°	127.4	103.2	129.0	193.5	351.6	537.0	4525.3	2440.0	1778.8	364.5	272.5
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°	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2	7054.2
2.5°	7057.3	7026.6	7002.5	6957.4	6907.4	6859.0	6815.4	6760.6	6744.5	6730.0	6752.5
5°	7079.9	7049.3	6960.6	6821.9	6668.7	6525.1	6381.6	6259.0	6183.2	6141.3	6165.5
7.5°	7113.8	7070.2	6886.4	6631.6	6355.8	6104.3	5844.5	5636.6	5483.3	5410.7	5431.7
10°	7144.4	7060.6	6760.6	6378.4	5975.2	5601.1	5191.4	4852.8	4601.1	4468.9	4501.2
12.5°	7157.4	7023.5	6584.8	6062.3	5509.1	4960.8	4357.7	3851.2	3490.0	3357.7	3330.3
15°	7170.3	6981.5	6391.3	5702.6	4946.3	4170.6	3325.5	2719.1	2419.1	2353.0	2338.5
17.5°	7173.4	6909.0	6172.0	5312.4	4286.7	3230.3	2273.9	1888.5	1890.1	1996.6	2009.5
20°	7139.6	6800.9	5905.8	4826.9	3496.4	2233.6	1561.1	1495.0	1738.5	2004.7	2036.9
22.5°	7062.1	6657.4	5604.2	4260.9	2591.6	1470.8	1207.9	1280.5	1595.0	1920.8	1957.8
25°	6963.8	6483.3	5247.8	3604.5	1716.0	1051.5	1012.8	1101.5	1314.4	1532.1	1553.0
27.5°	6829.9	6276.8	4847.9	2852.9	1114.4	866.0	891.8	951.5	1038.6	1135.4	1145.1
30°	6657.4	6030.0	4420.5	2080.5	841.9	779.0	816.0	848.3	885.4	940.2	945.1
32.5°	6459.0	5793.0	3981.8	1436.9	746.7	733.8	762.8	779.0	808.0	841.9	845.1
35°	6292.9	5567.2	3527.0	1016.0	706.3	699.9	719.2	725.7	753.2	790.2	793.5
37.5°	6197.8	5383.3	3057.7	819.3	678.9	669.3	680.6	680.6	719.2	774.1	782.1
40°	6204.2	5281.7	2588.5	740.2	656.4	643.4	645.1	645.1	695.1	754.7	759.6
42.5°	6380.0	5307.5	2172.3	709.6	638.6	624.1	616.0	620.9	662.9	701.5	704.8
45°	6792.8	5489.8	1782.1	690.3	620.9	616.0	598.3	596.7	612.8	630.5	630.5
47.5°	7470.2	5849.4	1517.5	677.4	606.4	604.8	583.8	562.8	561.2	567.6	567.6
50°	8571.7	6468.7	1340.2	662.9	596.7	583.8	559.7	527.3	516.1	520.9	520.9
52.5°	10223.2	7573.4	1272.4	643.4	575.7	554.7	527.3	495.1	485.4	487.0	487.0
55°	12389.1	9270.0	1262.7	620.9	553.2	519.4	496.7	472.5	461.2	464.4	464.4
57.5°	15035.5	11616.5	1435.3	585.4	522.5	483.9	471.0	454.8	446.7	451.5	450.0
60°	18252.9	14687.2	2128.9	548.3	491.8	451.5	451.5	438.6	432.2	437.0	435.5
62.5°	21959.1	18214.3	2993.3	520.9	459.6	425.8	432.2	425.8	419.3	422.6	420.9
65°	25245.8	20512.4	2803.0	499.9	427.4	401.6	412.9	409.6	404.8	408.1	406.4
67.5°	25340.9	19660.9	1574.0	477.4	396.7	377.4	393.5	391.9	388.6	391.9	390.3
70°	22615.4	16601.6	887.0	435.5	364.5	348.3	370.9	369.3	366.1	372.6	370.9
72.5°	18119.1	12047.2	648.3	383.8	332.3	317.7	343.5	341.9	341.9	351.6	346.8
75°	10426.3	6199.4	517.7	329.0	298.4	287.0	309.6	311.3	314.5	327.3	317.7
77.5°	2972.3	1932.0	422.6	279.0	256.5	251.5	274.2	277.4	279.0	293.5	280.6
80°	1104.7	890.3	348.3	233.8	209.7	211.2	232.2	237.1	238.7	253.2	237.1
82.5°	704.8	587.1	282.2	180.7	164.5	162.9	188.7	195.2	195.2	196.7	187.1
85°	411.2	351.6	212.9	130.6	116.1	111.3	140.3	151.6	146.8	143.5	137.1
87.5°	275.8	241.9	130.6	72.5	62.9	59.6	82.2	90.3	87.1	82.2	77.4
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)