

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: P191095

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191095
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-07-LED-E1-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 42191.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 391
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

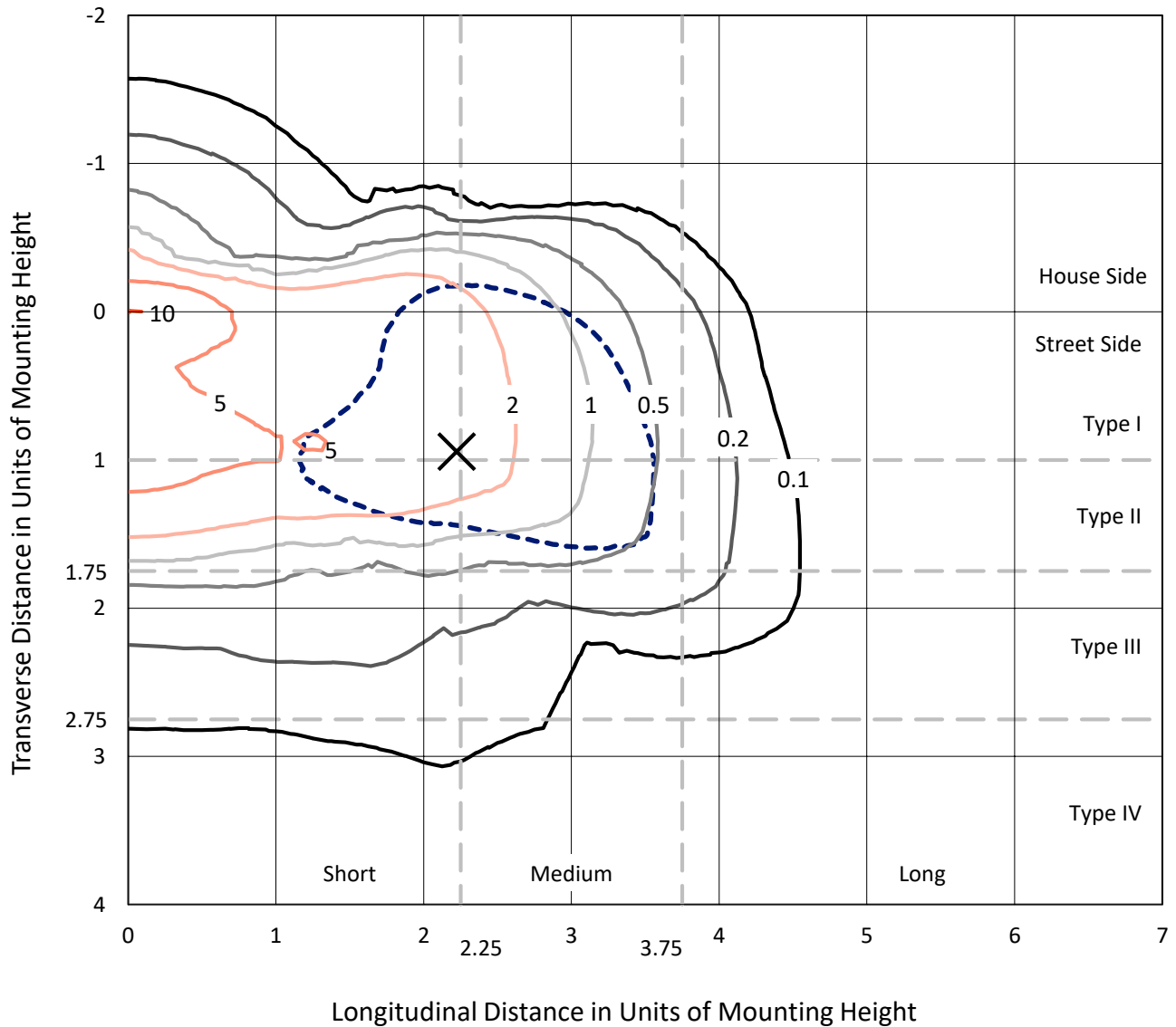


REPORT NUMBER: P191095

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

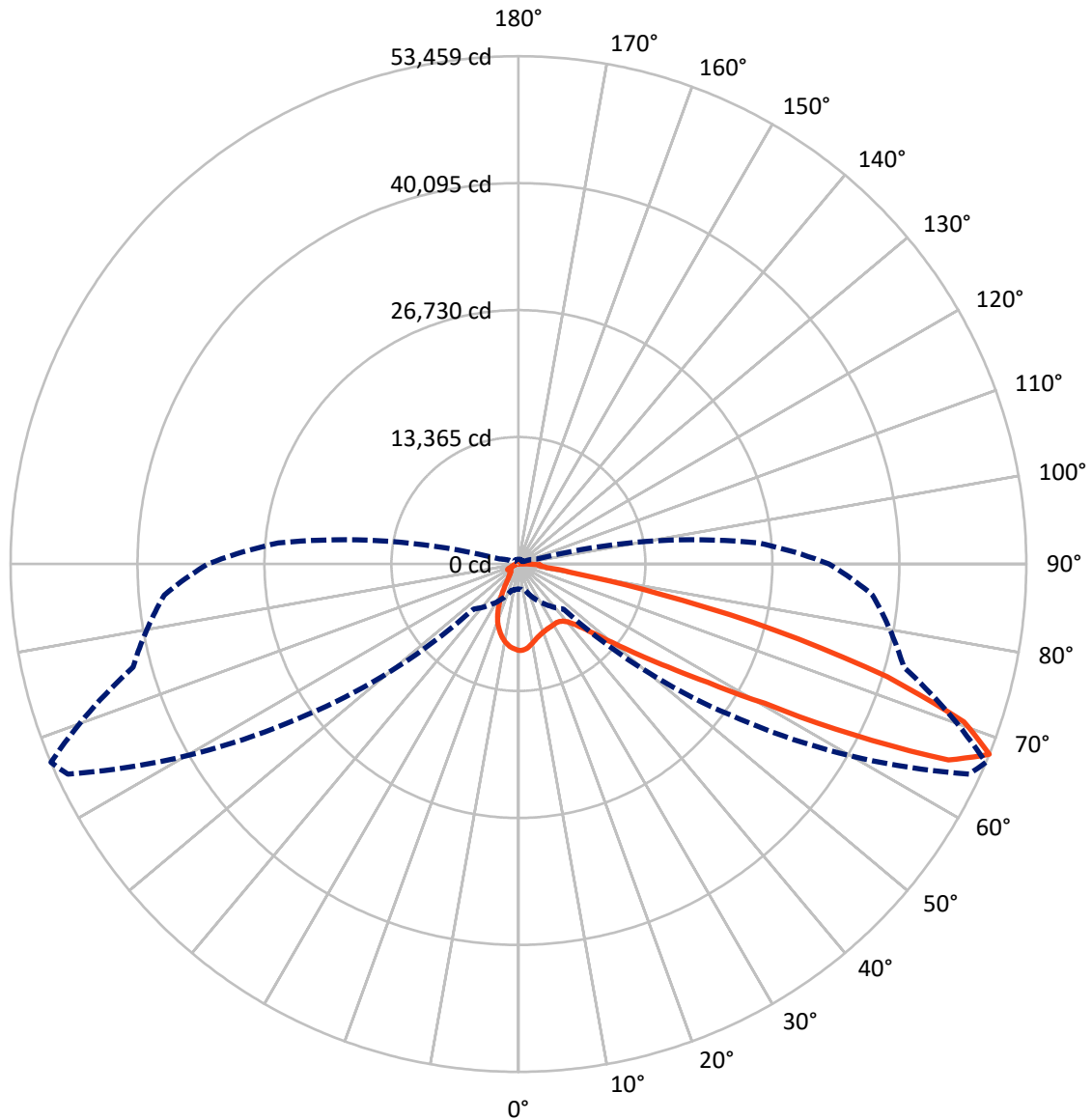


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191095

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2

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
House Side	Lumens	6990.7	0.0	6990.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	35200.9	0.0	35200.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	42191.6	0.0	42191.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.4	1.8
10°-20°	1796.5	4.3
20°-30°	2435.2	5.8
30°-40°	3461.9	8.2
40°-50°	5791.9	13.7
50°-60°	9162.7	21.7
60°-70°	11672.4	27.7
70°-80°	6114.0	14.5
80°-90°	980.6	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°	42191.6	100.0
0°-180°	42191.6	100.0

Coefficient of Utilization



REPORT NUMBER: P191095

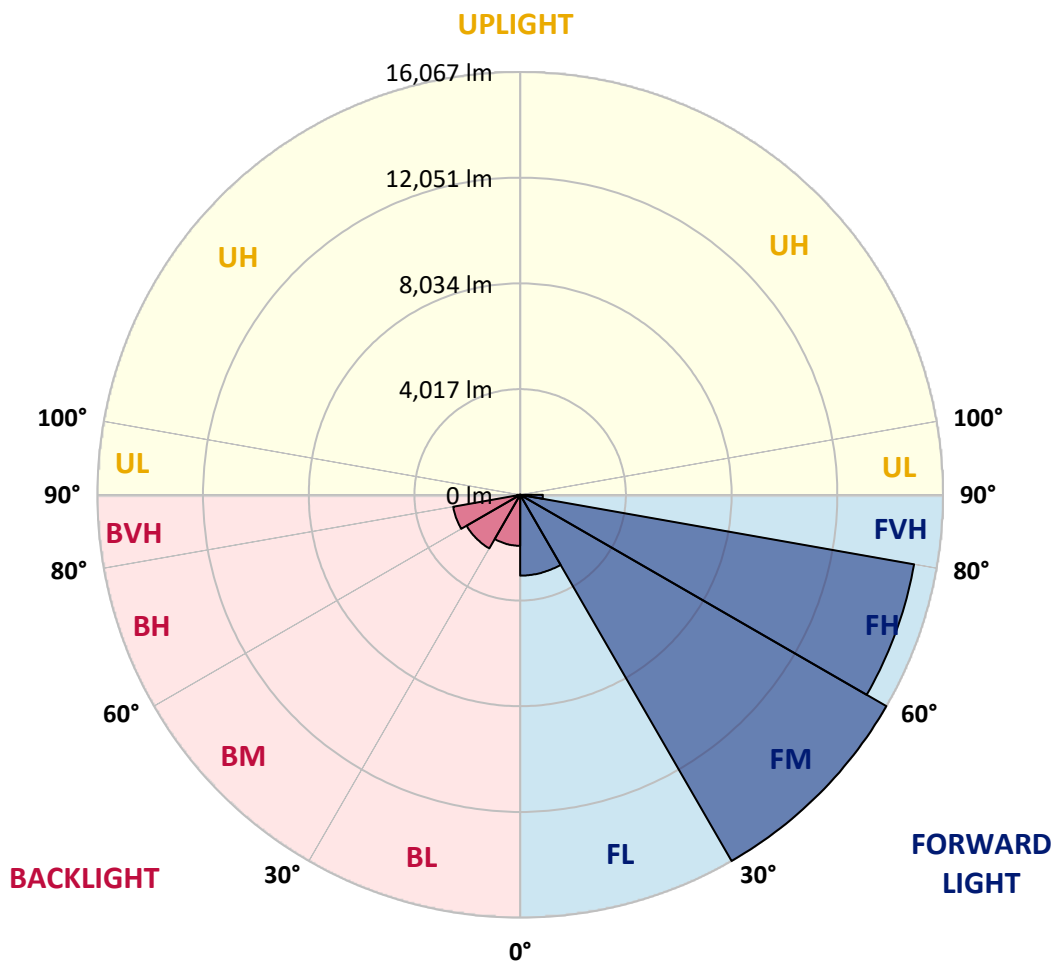
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.5	7.3			
FM	(30°-60°)	16067.4	38.1			
FH	(60°-80°)	15200.8	36.0			G5
FVH	(80°-90°)	862.2	2.0			G5
BL	(0°-30°)	1937.6	4.6	B3/2500		
BM	(30°-60°)	2349.1	5.6	B2/2500		
BH	(60°-80°)	2585.6	6.1	B4/5000		G4/5000
BVH	(80°-90°)	118.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P191095

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6
2.5°	8726.1	8740.7	8786.4	8815.6	8946.6	9002.9	9042.4	9081.9	9088.1	9106.8	9088.1
5°	7810.6	7841.8	7927.2	8022.9	8276.7	8476.5	8686.6	8905.1	8944.6	9086.1	9125.6
7.5°	7101.1	7092.8	7163.5	7278.0	7538.1	7814.8	8183.1	8618.0	8703.3	9021.6	9175.6
10°	6583.1	6576.9	6651.7	6770.3	7018.0	7280.0	7696.2	8291.2	8411.9	8919.6	9223.3
12.5°	6200.2	6202.4	6277.2	6408.3	6660.0	6924.3	7346.6	7975.0	8129.0	8801.1	9273.4
15°	5946.4	5963.1	6023.4	6162.8	6408.3	6672.5	7086.6	7737.8	7910.5	8707.4	9329.5
17.5°	5861.1	5888.1	5909.0	6010.9	6221.1	6485.3	6891.0	7563.1	7746.2	8642.9	9379.4
20°	5940.2	5971.4	5931.9	5967.2	6100.4	6333.4	6737.1	7425.7	7613.0	8570.1	9385.7
22.5°	6279.3	6308.4	6191.9	6089.9	6081.6	6223.1	6610.1	7317.6	7511.0	8516.0	9387.7
25°	6876.5	6895.2	6699.6	6462.4	6231.4	6183.6	6520.7	7242.6	7448.6	8468.1	9348.2
27.5°	7608.8	7623.3	7398.7	7049.2	6585.1	6277.2	6489.5	7198.9	7413.2	8426.5	9281.6
30°	8499.3	8568.0	8266.3	7825.2	7149.0	6553.9	6551.9	7176.1	7373.7	8355.8	9150.6
32.5°	9410.6	9439.8	9231.7	8784.4	7908.4	7040.8	6726.6	7192.7	7363.3	8270.5	8984.1
35°	10334.5	10371.9	10236.7	9876.7	8946.6	7754.5	7067.9	7290.5	7427.9	8241.3	8867.6
37.5°	11530.8	11580.7	11393.4	10977.4	10209.6	8722.0	7635.9	7536.0	7625.5	8324.6	8832.3
40°	13422.0	13399.2	12851.9	12231.9	11591.2	9960.0	8447.3	7952.1	8004.2	8593.0	8940.4
42.5°	15623.3	15567.2	14624.7	13651.0	13109.9	11458.0	9520.9	8674.1	8663.7	9121.4	9321.1
45°	17379.4	17333.6	16484.8	15284.2	14851.5	13164.0	10908.6	9749.7	9672.8	9960.0	10024.4
47.5°	18330.3	18332.3	17843.4	16863.4	16853.0	15332.1	12691.8	11306.1	11172.9	11308.2	11239.5
50°	17997.4	18041.1	17989.0	17676.9	18679.8	18174.2	15020.0	13476.1	13207.7	13340.9	13076.7
52.5°	16387.0	16443.1	16751.0	17229.6	19447.5	21609.3	18440.5	16172.6	15860.5	15812.7	15519.3
55°	13532.3	13601.1	14229.3	15529.7	18808.8	23916.7	23837.6	19609.9	19112.6	18661.1	18536.3
57.5°	9327.4	9441.8	10453.0	12383.8	16742.7	24613.7	30264.7	24509.7	23498.5	21921.4	21950.5
60°	5257.8	5390.8	6583.1	8337.0	12573.2	23856.3	35154.1	31931.2	29796.5	25739.3	25955.7
62.5°	3343.5	3487.1	4392.1	5792.5	7544.4	19778.3	37157.8	42249.0	39538.0	30445.7	30657.9
65°	2706.9	2769.3	3195.8	4781.3	5478.3	11915.7	35636.8	50748.4	49737.2	36419.2	35428.8
67.5°	2642.4	2663.2	2883.7	4013.5	5253.6	6697.5	28425.5	52337.9	53459.4	41997.2	37415.8
70°	2611.2	2684.0	3249.9	3830.4	5031.0	5648.8	17081.8	47981.1	49751.7	43455.8	34771.3
72.5°	1267.1	1262.9	1635.4	3464.2	5667.6	5859.1	8776.1	38822.3	40599.1	37648.8	28573.2
75°	1021.6	934.2	892.6	1269.2	5449.2	6050.4	5592.7	26713.0	27998.9	25242.0	17564.6
77.5°	969.6	865.5	792.7	794.8	2303.3	6416.7	4737.6	14784.9	15159.4	11401.8	4812.5
80°	803.1	707.4	655.4	738.6	1115.2	6110.8	5122.5	6691.2	6140.0	2800.5	1602.0
82.5°	557.6	507.7	493.1	620.0	892.6	4354.7	5956.8	3595.3	3014.8	1402.4	988.3
85°	355.8	303.8	337.1	451.5	694.9	2009.9	6135.8	2802.6	2228.3	890.5	557.6
87.5°	164.4	133.2	166.4	249.7	453.6	692.8	5838.2	3147.9	2294.9	470.3	351.6
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: P191095

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6	9100.6
2.5°	9104.8	9065.3	9034.1	8975.8	8911.3	8848.8	8792.7	8722.0	8701.1	8682.4	8711.6
5°	9133.9	9094.3	8980.0	8801.1	8603.3	8418.2	8233.0	8074.9	7977.1	7923.0	7954.2
7.5°	9177.6	9121.4	8884.2	8555.6	8199.8	7875.2	7540.2	7271.7	7074.1	6980.5	7007.5
10°	9217.1	9109.0	8722.0	8228.8	7708.7	7226.0	6697.5	6260.6	5936.0	5765.4	5807.0
12.5°	9233.8	9061.1	8495.2	7821.1	7107.4	6400.0	5621.8	4968.5	4502.4	4331.9	4296.5
15°	9250.4	9007.0	8245.5	7357.1	6381.3	5380.5	4290.3	3507.9	3120.9	3035.6	3016.9
17.5°	9254.6	8913.4	7962.5	6853.6	5530.3	4167.5	2933.7	2436.4	2438.5	2575.8	2592.5
20°	9210.9	8774.0	7619.2	6227.3	4510.8	2881.7	2014.1	1928.8	2242.9	2586.2	2627.9
22.5°	9111.0	8588.8	7230.1	5497.0	3343.5	1897.6	1558.4	1652.0	2057.8	2478.0	2525.9
25°	8984.1	8364.1	6770.3	4650.2	2213.8	1356.5	1306.6	1421.1	1695.7	1976.5	2003.7
27.5°	8811.4	8097.8	6254.3	3680.6	1437.8	1117.3	1150.6	1227.5	1340.0	1464.8	1477.2
30°	8588.8	7779.4	5703.0	2684.0	1086.1	1004.9	1052.8	1094.5	1142.2	1213.0	1219.3
32.5°	8332.9	7473.6	5137.1	1853.8	963.3	946.6	984.2	1004.9	1042.4	1086.1	1090.3
35°	8118.5	7182.3	4550.3	1310.8	911.3	903.0	927.9	936.3	971.6	1019.5	1023.7
37.5°	7995.8	6945.1	3944.8	1056.9	876.0	863.5	878.0	878.0	927.9	998.7	1009.1
40°	8004.2	6814.0	3339.4	955.0	846.8	830.1	832.3	832.3	896.7	973.7	980.0
42.5°	8231.0	6847.3	2802.6	915.4	823.9	805.2	794.8	801.1	855.1	905.1	909.2
45°	8763.5	7082.4	2299.1	890.5	801.1	794.8	771.9	769.9	790.6	813.6	813.6
47.5°	9637.4	7546.4	1957.8	873.9	782.4	780.2	753.2	726.1	724.0	732.3	732.3
50°	11058.5	8345.3	1729.0	855.1	769.9	753.2	722.0	680.4	665.8	672.1	672.1
52.5°	13189.0	9770.6	1641.6	830.1	742.8	715.8	680.4	638.7	626.3	628.3	628.3
55°	15983.3	11959.4	1629.2	801.1	713.6	669.9	640.9	609.6	595.1	599.2	599.2
57.5°	19397.6	14986.7	1851.7	755.2	674.1	624.2	607.5	586.8	576.3	582.6	580.5
60°	23548.4	18948.2	2746.4	707.4	634.6	582.6	582.6	565.9	557.6	563.9	561.8
62.5°	28329.7	23498.5	3861.6	672.1	593.0	549.3	557.6	549.3	540.9	545.1	543.1
65°	32570.0	26463.4	3616.1	645.0	551.4	518.1	532.7	528.5	522.2	526.4	524.4
67.5°	32692.8	25364.8	2030.7	615.8	511.8	486.8	507.7	505.5	501.5	505.5	503.5
70°	29176.5	21417.9	1144.4	561.8	470.3	449.4	478.5	476.5	472.3	480.6	478.5
72.5°	23375.8	15542.2	836.4	495.2	428.6	409.9	443.1	441.1	441.1	453.6	447.3
75°	13451.2	7997.9	667.9	424.4	384.9	370.3	399.5	401.6	405.7	422.4	409.9
77.5°	3834.5	2492.6	545.1	360.0	330.8	324.6	353.7	357.8	360.0	378.7	362.0
80°	1425.2	1148.5	449.4	301.7	270.5	272.5	299.6	305.9	307.9	326.6	305.9
82.5°	909.2	757.4	364.1	233.0	212.3	210.1	243.5	251.7	251.7	253.8	241.3
85°	530.6	453.6	274.7	168.5	149.8	143.5	181.1	195.6	189.3	185.2	176.9
87.5°	355.8	312.1	168.5	93.6	81.1	77.0	106.1	116.5	112.3	106.1	99.8
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)