

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: P193637

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193637
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-09-LED-E1-SL2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 42538 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

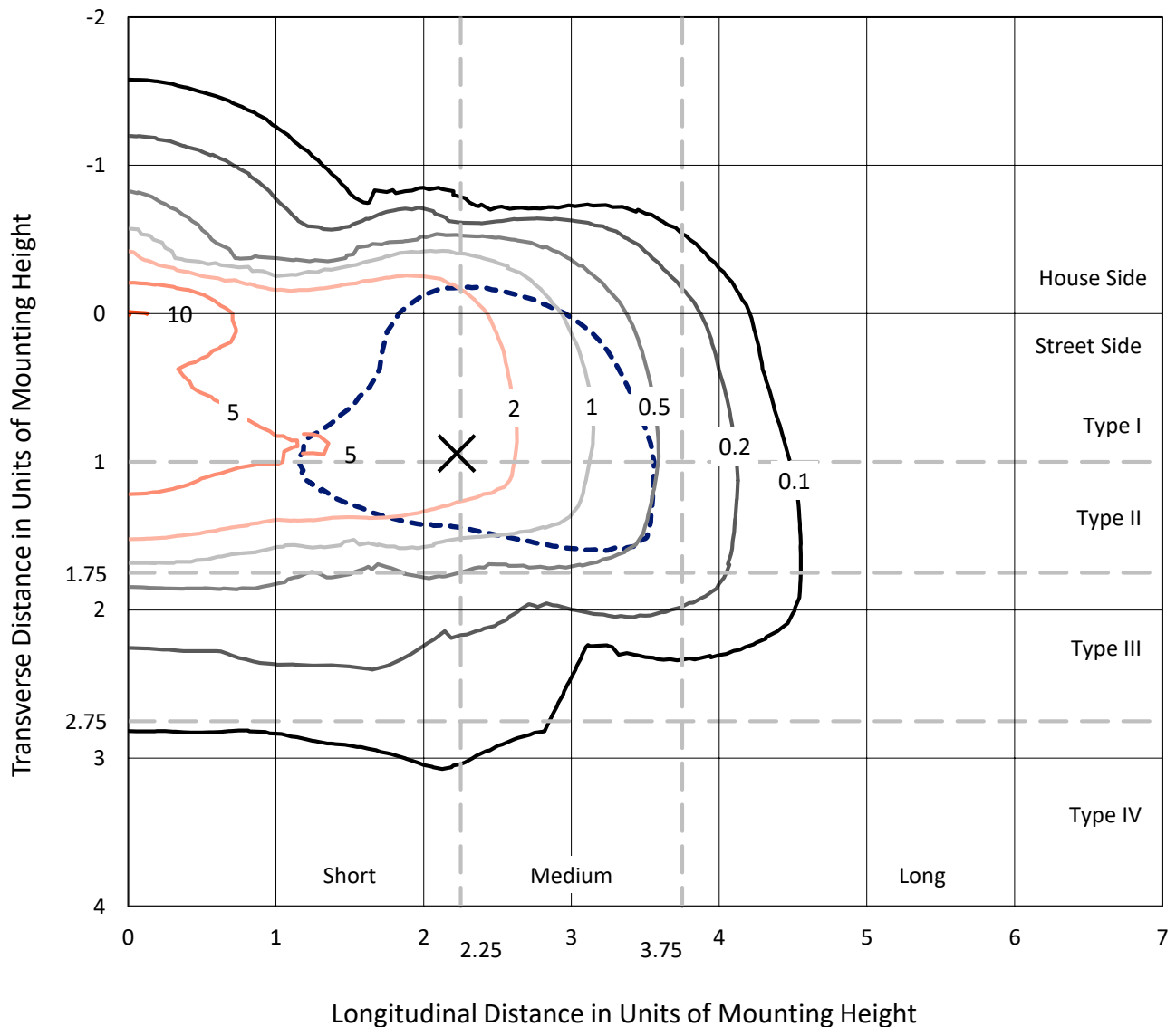
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

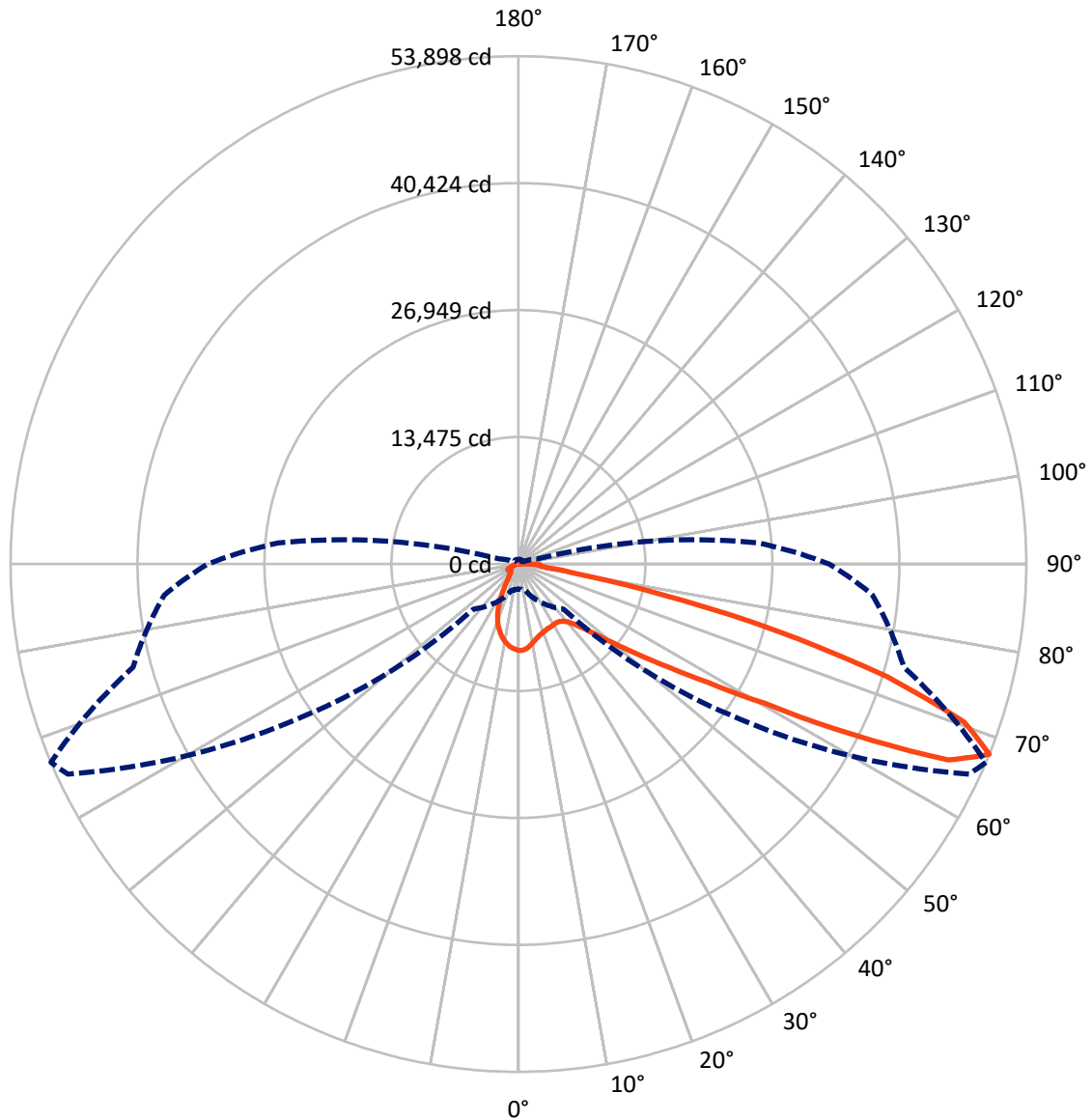
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	7048.1	0.0	7048.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	35489.9	0.0	35489.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	42538.0	0.0	42538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.8	1.8
10°-20°	1811.3	4.3
20°-30°	2455.2	5.8
30°-40°	3490.3	8.2
40°-50°	5839.4	13.7
50°-60°	9238.0	21.7
60°-70°	11768.2	27.7
70°-80°	6164.2	14.5
80°-90°	988.6	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°	42538.0	100.0
0°-180°	42538.0	100.0

Coefficient of Utilization



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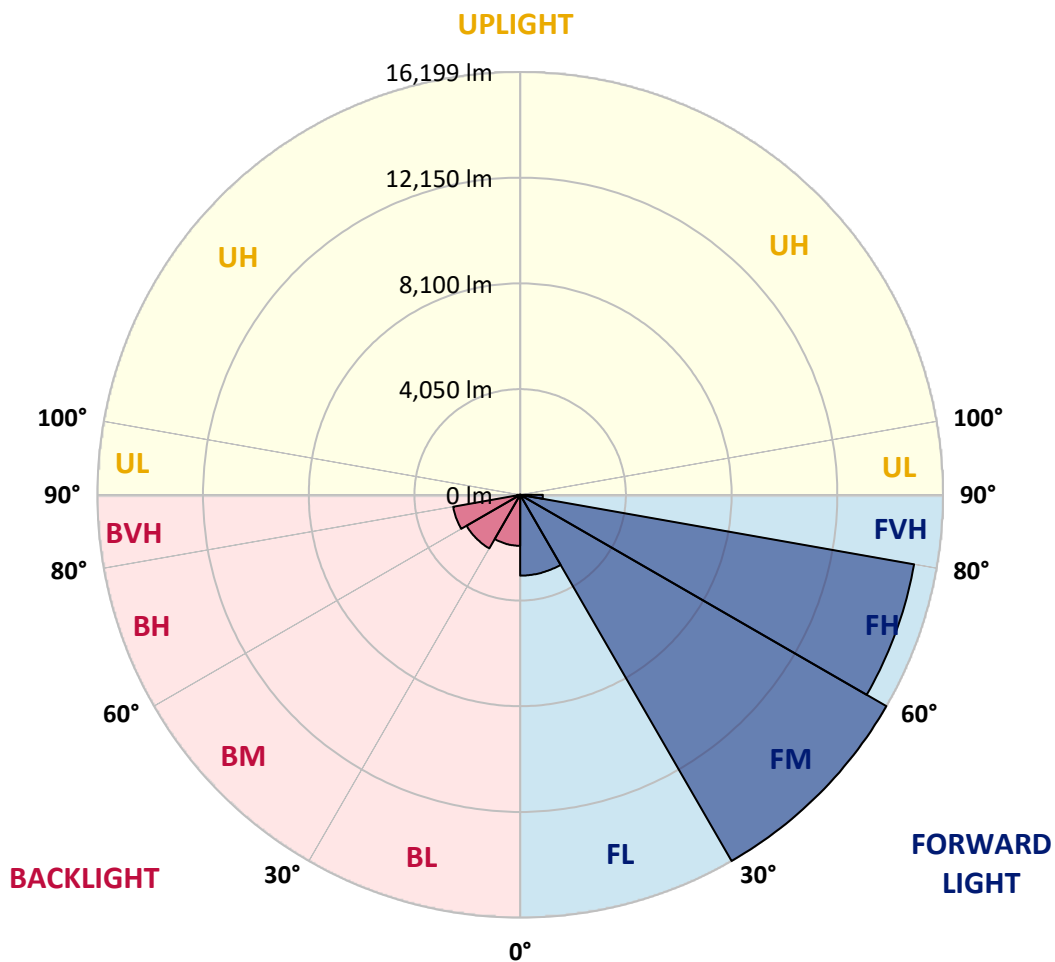
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3095.7	7.3			
FM	(30°-60°)	16199.4	38.1			
FH	(60°-80°)	15325.5	36.0			G5
FVH	(80°-90°)	869.3	2.0			G5
BL	(0°-30°)	1953.5	4.6	B3/2500		
BM	(30°-60°)	2368.4	5.6	B2/2500		
BH	(60°-80°)	2606.9	6.1	B4/5000		G4/5000
BVH	(80°-90°)	119.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3
2.5°	8797.8	8812.4	8858.6	8888.0	9020.1	9076.8	9116.6	9156.5	9162.8	9181.6	9162.8
5°	7874.8	7906.2	7992.2	8088.7	8344.7	8546.0	8757.9	8978.2	9018.0	9160.7	9200.5
7.5°	7159.5	7151.1	7222.4	7337.8	7600.0	7879.0	8250.3	8688.7	8774.7	9095.6	9250.9
10°	6637.1	6630.8	6706.3	6825.9	7075.5	7339.9	7759.4	8359.3	8481.0	8992.8	9299.1
12.5°	6251.1	6253.2	6328.8	6460.9	6714.7	6981.1	7407.0	8040.5	8195.7	8873.3	9349.5
15°	5995.2	6012.0	6072.8	6213.4	6460.9	6727.3	7144.8	7801.3	7975.5	8778.9	9406.1
17.5°	5909.2	5936.5	5957.5	6060.3	6272.1	6538.5	6947.6	7625.1	7809.7	8713.8	9456.4
20°	5988.9	6020.4	5980.5	6016.2	6150.5	6385.4	6792.4	7486.7	7675.5	8640.4	9462.7
22.5°	6330.9	6360.2	6242.8	6140.0	6131.6	6274.2	6664.4	7377.6	7572.7	8585.9	9464.8
25°	6932.9	6951.8	6754.6	6515.5	6282.6	6234.4	6574.2	7302.1	7509.8	8537.6	9425.0
27.5°	7671.3	7686.0	7459.4	7107.0	6639.2	6328.8	6542.7	7258.0	7474.1	8495.7	9357.8
30°	8569.1	8638.3	8334.2	7889.5	7207.7	6607.8	6605.7	7235.0	7434.3	8424.4	9225.7
32.5°	9487.9	9517.3	9307.5	8856.5	7973.4	7098.6	6781.9	7251.8	7423.8	8338.4	9057.9
35°	10419.3	10457.0	10320.7	9957.8	9020.1	7818.1	7125.9	7350.3	7488.8	8309.0	8940.4
37.5°	11625.5	11675.8	11487.0	11067.5	10293.4	8793.6	7698.6	7597.9	7688.1	8392.9	8904.7
40°	13532.3	13509.2	12957.5	12332.4	11686.3	10041.7	8516.7	8017.4	8069.9	8663.5	9013.8
42.5°	15751.6	15695.0	14744.7	13763.0	13217.6	11552.0	9599.1	8745.3	8734.8	9196.3	9397.7
45°	17522.1	17475.9	16620.1	15409.7	14973.4	13272.2	10998.2	9829.8	9752.2	10041.7	10106.7
47.5°	18480.7	18482.8	17989.9	17001.9	16991.4	15458.0	12796.0	11398.9	11264.7	11401.0	11331.8
50°	18145.1	18189.2	18136.7	17822.1	18833.2	18323.4	15143.3	13586.8	13316.2	13450.5	13184.0
52.5°	16521.5	16578.1	16888.6	17371.1	19607.2	21786.7	18591.9	16305.4	15990.8	15942.5	15646.7
55°	13643.4	13712.7	14346.2	15657.2	18963.2	24113.1	24033.4	19770.8	19269.5	18814.3	18688.4
57.5°	9404.0	9519.4	10538.8	12485.5	16880.2	24815.8	30513.2	24710.9	23691.4	22101.4	22130.7
60°	5300.9	5435.1	6637.1	8405.5	12676.4	24052.2	35442.7	32193.4	30041.2	25950.7	26168.8
62.5°	3371.0	3515.7	4428.2	5840.0	7606.3	19940.7	37462.8	42595.9	39862.6	30695.7	30909.6
65°	2729.1	2792.0	3222.1	4820.5	5523.2	12013.5	35929.4	51165.0	50145.5	36718.2	35719.6
67.5°	2664.1	2685.1	2907.4	4046.5	5296.7	6752.5	28658.8	52767.7	53898.3	42342.1	37722.9
70°	2632.6	2706.0	3276.6	3861.9	5072.2	5695.3	17222.1	48375.1	50160.2	43812.6	35056.8
72.5°	1277.5	1273.3	1648.8	3492.7	5714.1	5907.1	8848.1	39141.0	40932.4	37957.9	28807.7
75°	1030.0	941.9	899.9	1279.6	5493.9	6100.1	5638.6	26932.4	28228.8	25449.3	17708.8
77.5°	977.5	872.6	799.2	801.3	2322.2	6469.3	4776.5	14906.3	15283.8	11495.4	4852.0
80°	809.7	713.2	660.8	744.7	1124.4	6160.9	5164.5	6746.2	6190.3	2823.5	1615.2
82.5°	562.2	511.8	497.2	625.1	899.9	4390.5	6005.7	3624.8	3039.6	1413.9	996.4
85°	358.7	306.3	339.8	455.2	700.6	2026.4	6186.1	2825.6	2246.6	897.8	562.2
87.5°	165.7	134.3	167.8	251.7	457.3	698.5	5886.1	3173.8	2313.8	474.1	354.5
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°	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3	9175.3
2.5°	9179.5	9139.7	9108.2	9049.5	8984.5	8921.5	8864.9	8793.6	8772.6	8753.7	8783.1
5°	9208.9	9169.0	9053.7	8873.3	8674.0	8487.3	8300.6	8141.2	8042.6	7988.0	8019.5
7.5°	9253.0	9196.3	8957.2	8625.7	8267.0	7939.8	7602.1	7331.5	7132.2	7037.8	7065.1
10°	9292.8	9183.7	8793.6	8296.4	7772.0	7285.3	6752.5	6312.0	5984.7	5812.7	5854.7
12.5°	9309.6	9135.5	8564.9	7885.3	7165.7	6452.5	5668.0	5009.3	4539.4	4367.4	4331.8
15°	9326.4	9080.9	8313.2	7417.5	6433.6	5424.7	4325.5	3536.7	3146.6	3060.5	3041.7
17.5°	9330.6	8986.5	8027.9	6909.8	5575.7	4201.7	2957.8	2456.4	2458.5	2597.0	2613.7
20°	9286.5	8846.0	7681.8	6278.4	4547.8	2905.3	2030.6	1944.6	2261.3	2607.4	2649.4
22.5°	9185.8	8659.3	7289.5	5542.1	3371.0	1913.1	1571.2	1665.6	2074.6	2498.4	2546.6
25°	9057.9	8432.8	6825.9	4688.4	2232.0	1367.7	1317.4	1432.7	1709.6	1992.8	2020.1
27.5°	8883.8	8164.3	6305.7	3710.8	1449.5	1126.5	1160.0	1237.6	1350.9	1476.8	1489.4
30°	8659.3	7843.3	5749.8	2706.0	1095.0	1013.2	1061.4	1103.4	1151.6	1223.0	1229.3
32.5°	8401.3	7534.9	5179.2	1869.1	971.2	954.5	992.2	1013.2	1050.9	1095.0	1099.2
35°	8185.2	7241.3	4587.7	1321.6	918.8	910.4	935.6	944.0	979.6	1027.9	1032.1
37.5°	8061.5	7002.1	3977.2	1065.6	883.1	870.5	885.2	885.2	935.6	1006.9	1017.4
40°	8069.9	6870.0	3366.8	962.8	853.8	837.0	839.1	839.1	904.1	981.7	988.0
42.5°	8298.5	6903.5	2825.6	923.0	830.7	811.8	801.3	807.6	862.2	912.5	916.7
45°	8835.5	7140.6	2318.0	897.8	807.6	801.3	778.2	776.1	797.1	820.2	820.2
47.5°	9716.5	7608.4	1973.9	881.0	788.7	786.6	759.4	732.1	730.0	738.4	738.4
50°	11149.3	8413.9	1743.2	862.2	776.1	759.4	727.9	685.9	671.3	677.6	677.6
52.5°	13297.3	9850.8	1655.1	837.0	748.9	721.6	685.9	644.0	631.4	633.5	633.5
55°	16114.5	12057.6	1642.5	807.6	719.5	675.5	646.1	614.6	599.9	604.1	604.1
57.5°	19556.9	15109.7	1867.0	761.5	679.7	629.3	612.5	591.6	581.1	587.4	585.3
60°	23741.8	19103.8	2769.0	713.2	639.8	587.4	587.4	570.6	562.2	568.5	566.4
62.5°	28562.3	23691.4	3893.3	677.6	597.8	553.8	562.2	553.8	545.4	549.6	547.5
65°	32837.4	26680.7	3645.8	650.3	555.9	522.3	537.0	532.8	526.5	530.7	528.6
67.5°	32961.2	25573.1	2047.4	620.9	516.0	490.9	511.8	509.7	505.5	509.7	507.6
70°	29416.1	21593.7	1153.7	566.4	474.1	453.1	482.5	480.4	476.2	484.6	482.5
72.5°	23567.7	15669.8	843.3	499.3	432.1	413.2	446.8	444.7	444.7	457.3	451.0
75°	13561.6	8063.6	673.4	427.9	388.1	373.4	402.8	404.9	409.1	425.8	413.2
77.5°	3866.1	2513.0	549.6	362.9	333.5	327.2	356.6	360.8	362.9	381.8	365.0
80°	1436.9	1157.9	453.1	304.2	272.7	274.8	302.1	308.4	310.5	329.3	308.4
82.5°	916.7	763.6	367.1	234.9	214.0	211.9	245.4	253.8	253.8	255.9	243.3
85°	534.9	457.3	276.9	169.9	151.0	144.7	182.5	197.2	190.9	186.7	178.3
87.5°	358.7	314.7	169.9	94.4	81.8	77.6	107.0	117.5	113.3	107.0	100.7
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)