

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: P191096

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191096
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-08-LED-E1-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 47806.6 lumens
Efficiency: N/A
Efficacy: 107.4 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): 445
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

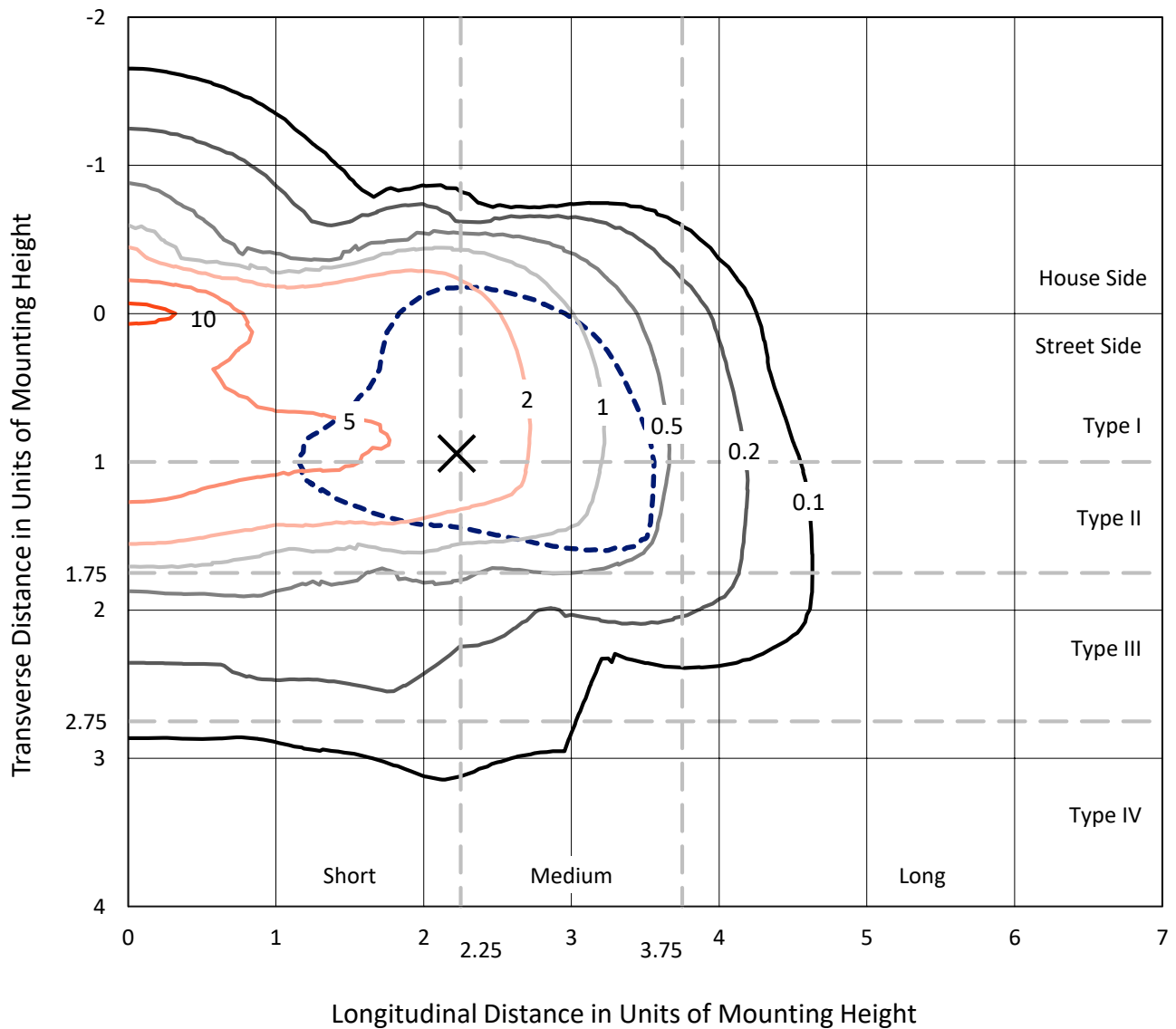


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

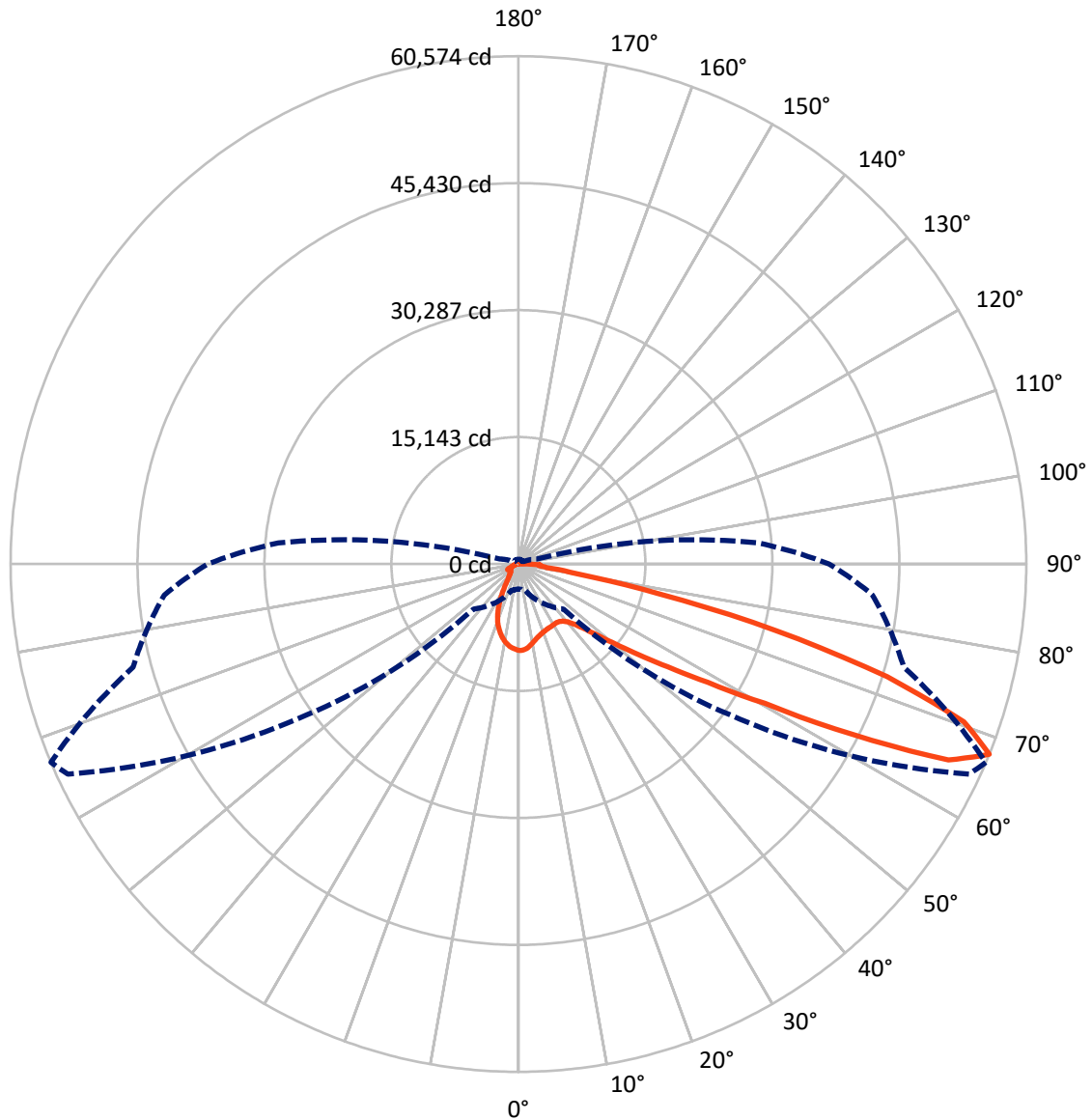


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Semi-Cutoff

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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	7921.0	0.0	7921.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	39885.6	0.0	39885.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	47806.6	0.0	47806.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.8	1.8
10°-20°	2035.6	4.3
20°-30°	2759.3	5.8
30°-40°	3922.6	8.2
40°-50°	6562.7	13.7
50°-60°	10382.1	21.7
60°-70°	13225.8	27.7
70°-80°	6927.7	14.5
80°-90°	1111.1	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°	47806.6	100.0
0°-180°	47806.6	100.0



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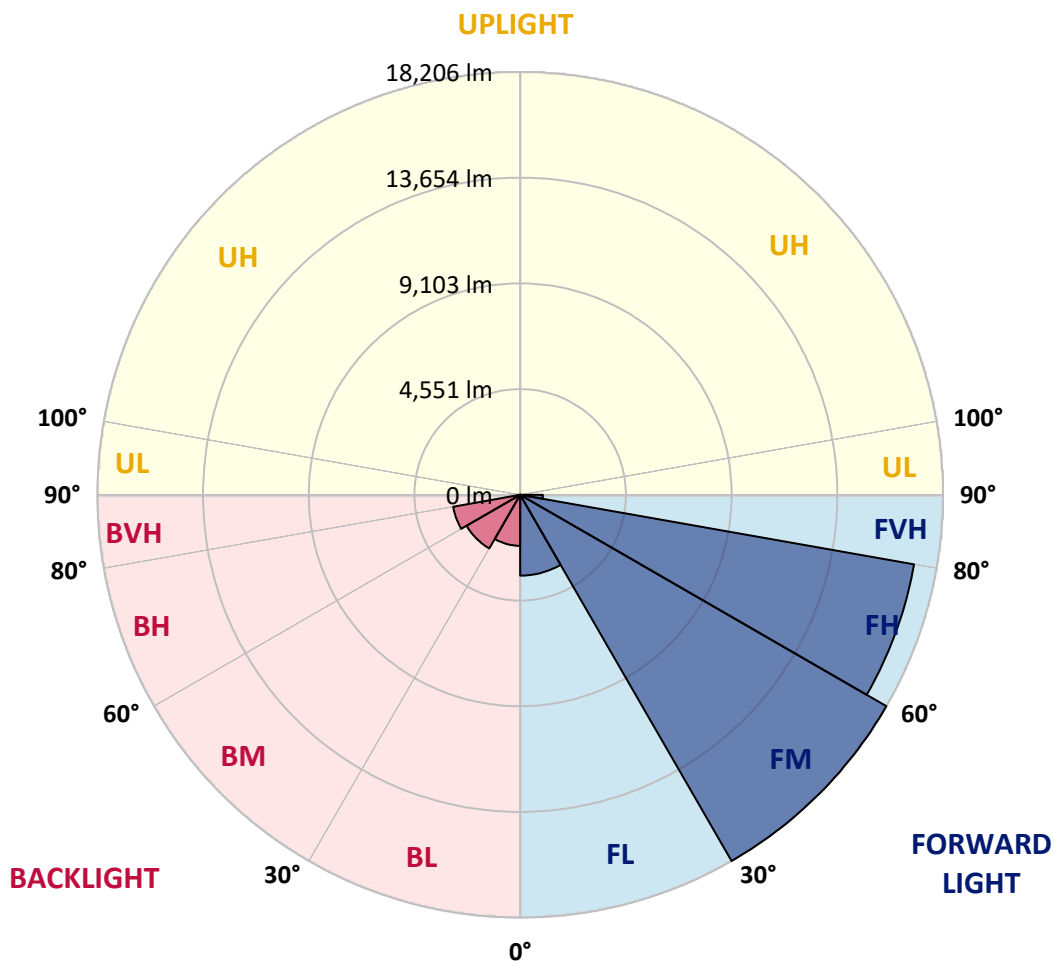
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3479.2	7.3			
FM (30°-60°)	18205.7	38.1			
FH (60°-80°)	17223.7	36.0			G5
FVH (80°-90°)	977.0	2.0			G5
BL (0°-30°)	2195.5	4.6	B3/2500		
BM (30°-60°)	2661.7	5.6	B3/5000		
BH (60°-80°)	2929.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	134.1	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°	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8
2.5°	9887.4	9903.9	9955.8	9988.8	10137.3	10201.0	10245.8	10290.6	10297.6	10318.8	10297.6
5°	8850.1	8885.5	8982.1	9090.6	9378.2	9604.5	9842.6	10090.2	10135.0	10295.3	10340.1
7.5°	8046.2	8036.8	8116.9	8246.6	8541.2	8854.9	9272.1	9764.8	9861.5	10222.1	10396.7
10°	7459.2	7452.1	7537.0	7671.3	7951.9	8249.0	8720.5	9394.7	9531.4	10106.7	10450.9
12.5°	7025.4	7027.8	7112.6	7261.1	7546.4	7845.8	8324.4	9036.3	9210.9	9972.2	10507.4
15°	6737.8	6756.6	6825.0	6983.0	7261.1	7560.5	8029.7	8767.6	8963.3	9866.2	10571.1
17.5°	6641.1	6671.8	6695.3	6810.8	7048.9	7348.4	7808.1	8569.6	8777.0	9793.1	10627.6
20°	6730.7	6766.1	6721.3	6761.4	6912.2	7176.3	7633.7	8414.0	8626.1	9710.6	10634.7
22.5°	7114.9	7148.0	7016.0	6900.4	6891.0	7051.3	7489.8	8291.3	8510.6	9649.3	10637.1
25°	7791.6	7812.8	7591.2	7322.5	7060.7	7006.5	7388.5	8206.5	8439.9	9595.1	10592.3
27.5°	8621.4	8637.9	8383.3	7987.3	7461.5	7112.6	7353.1	8157.0	8399.9	9547.9	10516.9
30°	9630.5	9708.2	9366.4	8866.6	8100.4	7426.2	7423.8	8131.0	8355.1	9467.8	10368.3
32.5°	10663.0	10696.1	10460.3	9953.4	8960.9	7977.8	7621.8	8150.0	8343.3	9371.2	10179.8
35°	11709.7	11752.2	11598.9	11191.1	10137.3	8786.4	8008.5	8260.7	8416.3	9338.1	10047.7
37.5°	13065.3	13121.9	12909.7	12438.3	11568.3	9882.7	8652.1	8538.9	8640.3	9432.4	10007.6
40°	15208.3	15182.4	14562.3	13859.9	13133.7	11285.4	9571.5	9010.5	9069.4	9736.5	10130.3
42.5°	17702.6	17638.9	16571.0	15467.6	14854.7	12982.8	10787.9	9828.5	9816.6	10335.4	10561.7
45°	19692.3	19640.5	18678.6	17318.3	16828.0	14916.0	12360.4	11047.4	10960.1	11285.4	11358.5
47.5°	20769.7	20772.0	20218.0	19107.6	19095.8	17372.5	14380.8	12810.7	12659.8	12813.1	12735.3
50°	20392.5	20442.0	20383.0	20029.5	21165.8	20592.9	17018.9	15269.6	14965.5	15116.3	14816.9
52.5°	18567.8	18631.4	18980.3	19522.6	22035.7	24485.1	20894.6	18324.9	17971.3	17917.1	17584.7
55°	15333.3	15411.1	16123.0	17596.5	21312.0	27099.6	27010.0	22219.5	21656.1	21144.5	21003.1
57.5°	10568.7	10698.4	11844.1	14031.9	18970.9	27889.4	34292.4	27771.5	26625.8	24838.8	24871.7
60°	5957.5	6108.3	7459.2	9446.5	14246.4	27031.3	39832.6	36180.7	33762.0	29164.8	29409.9
62.5°	3788.5	3951.1	4976.8	6563.4	8548.4	22410.5	42102.8	47871.6	44799.8	34497.5	34738.0
65°	3067.1	3137.8	3621.1	5417.5	6207.4	13501.5	40379.4	57502.1	56356.3	41265.9	40143.8
67.5°	2994.1	3017.6	3267.5	4547.6	5952.8	7588.9	32208.3	59303.2	60573.9	47586.4	42395.2
70°	2958.7	3041.2	3682.4	4340.2	5700.5	6400.6	19355.2	54366.6	56372.9	49239.0	39398.7
72.5°	1435.7	1431.0	1853.0	3925.3	6421.9	6638.7	9944.0	43988.8	46002.2	42659.2	32375.8
75°	1157.6	1058.5	1011.4	1438.1	6174.3	6855.6	6337.0	30268.1	31725.1	28601.4	19902.1
77.5°	1098.6	980.7	898.3	900.6	2609.8	7270.5	5368.0	16752.5	17176.9	12919.2	5452.9
80°	910.0	801.6	742.7	836.9	1263.7	6924.0	5804.2	7581.8	6957.0	3173.2	1815.3
82.5°	631.8	575.2	558.7	702.6	1011.4	4934.3	6749.5	4073.8	3416.0	1588.9	1119.8
85°	403.1	344.2	381.9	511.6	787.4	2277.4	6952.3	3175.5	2524.8	1009.0	631.8
87.5°	186.3	150.9	188.6	282.9	513.9	785.0	6615.2	3566.9	2600.3	532.8	398.4
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°	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8	10311.8
2.5°	10316.5	10271.7	10236.4	10170.3	10097.2	10026.6	9962.8	9882.7	9859.1	9837.9	9870.9
5°	10349.5	10304.7	10175.0	9972.2	9748.3	9538.5	9328.7	9149.5	9038.7	8977.4	9012.8
7.5°	10399.0	10335.4	10066.6	9694.1	9291.0	8923.2	8543.6	8239.5	8015.5	7909.5	7940.1
10°	10443.8	10321.2	9882.7	9324.0	8734.6	8187.6	7588.9	7093.8	6726.0	6532.7	6579.8
12.5°	10462.6	10266.9	9625.8	8861.9	8053.3	7251.7	6370.0	5629.7	5101.7	4908.3	4868.2
15°	10481.5	10205.7	9342.8	8336.1	7230.5	6096.5	4861.2	3974.8	3536.2	3439.6	3418.4
17.5°	10486.3	10099.6	9022.2	7765.6	6266.3	4722.1	3324.1	2760.6	2763.0	2918.6	2937.5
20°	10436.8	9941.6	8633.2	7056.0	5111.1	3265.2	2282.1	2185.4	2541.4	2930.3	2977.5
22.5°	10323.5	9731.8	8192.4	6228.5	3788.5	2150.0	1765.8	1871.9	2331.6	2807.8	2862.0
25°	10179.8	9477.2	7671.3	5269.0	2508.4	1537.1	1480.5	1610.2	1921.4	2239.6	2270.2
27.5°	9984.1	9175.5	7086.7	4170.5	1629.0	1266.0	1303.8	1390.9	1518.3	1659.7	1673.9
30°	9731.8	8814.8	6462.0	3041.2	1230.6	1138.6	1192.9	1240.0	1294.2	1374.4	1381.5
32.5°	9441.8	8468.2	5820.7	2100.5	1091.5	1072.7	1115.1	1138.6	1181.1	1230.6	1235.3
35°	9199.0	8138.1	5155.9	1485.2	1032.6	1023.2	1051.5	1060.9	1101.0	1155.2	1159.9
37.5°	9060.0	7869.4	4469.9	1197.6	992.5	978.4	994.8	994.8	1051.5	1131.6	1143.4
40°	9069.4	7720.8	3783.8	1082.1	959.5	940.6	943.0	943.0	1016.1	1103.4	1110.4
42.5°	9326.3	7758.6	3175.5	1037.3	933.5	912.4	900.6	907.7	968.9	1025.5	1030.2
45°	9929.9	8024.9	2605.0	1009.0	907.7	900.6	874.6	872.3	895.9	921.8	921.8
47.5°	10920.0	8550.7	2218.4	990.1	886.4	884.0	853.4	822.8	820.4	829.8	829.8
50°	12530.2	9456.0	1959.1	968.9	872.3	853.4	818.1	770.9	754.4	761.5	761.5
52.5°	14944.3	11070.9	1860.0	940.6	841.6	811.0	770.9	723.7	709.6	712.0	712.0
55°	18110.4	13551.0	1845.9	907.7	808.6	759.1	726.1	690.8	674.2	678.9	678.9
57.5°	21979.1	16981.2	2098.2	855.8	763.8	707.3	688.3	664.8	653.1	660.1	657.8
60°	26682.3	21469.9	3111.9	801.6	719.0	660.1	660.1	641.3	631.8	638.9	636.5
62.5°	32099.9	26625.8	4375.6	761.5	671.9	622.4	631.8	622.4	613.0	617.7	615.3
65°	36904.5	29985.2	4097.3	730.8	624.7	587.1	603.5	598.8	591.8	596.5	594.1
67.5°	37043.6	28740.4	2300.9	697.9	579.9	551.7	575.2	572.9	568.1	572.9	570.5
70°	33059.4	24268.3	1296.6	636.5	532.8	509.2	542.3	539.9	535.1	544.6	542.3
72.5°	26486.7	17610.6	947.8	561.1	485.7	464.4	502.2	499.8	499.8	513.9	506.9
75°	15241.4	9062.3	756.8	480.9	436.2	419.6	452.7	455.0	459.7	478.5	464.4
77.5°	4344.9	2824.3	617.7	407.9	374.8	367.8	400.8	405.5	407.9	429.0	410.2
80°	1614.9	1301.4	509.2	341.9	306.5	308.8	339.5	346.6	348.9	370.1	346.6
82.5°	1030.2	858.2	412.6	264.0	240.5	238.1	275.8	285.3	285.3	287.7	273.4
85°	601.2	513.9	311.2	191.0	169.7	162.6	205.1	221.6	214.5	209.8	200.4
87.5°	403.1	353.6	191.0	106.1	92.0	87.3	120.2	132.1	127.3	120.2	113.1
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)