

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: P269510

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24642 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
Input Voltage (V): NR
Input Current (A_{in}): 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

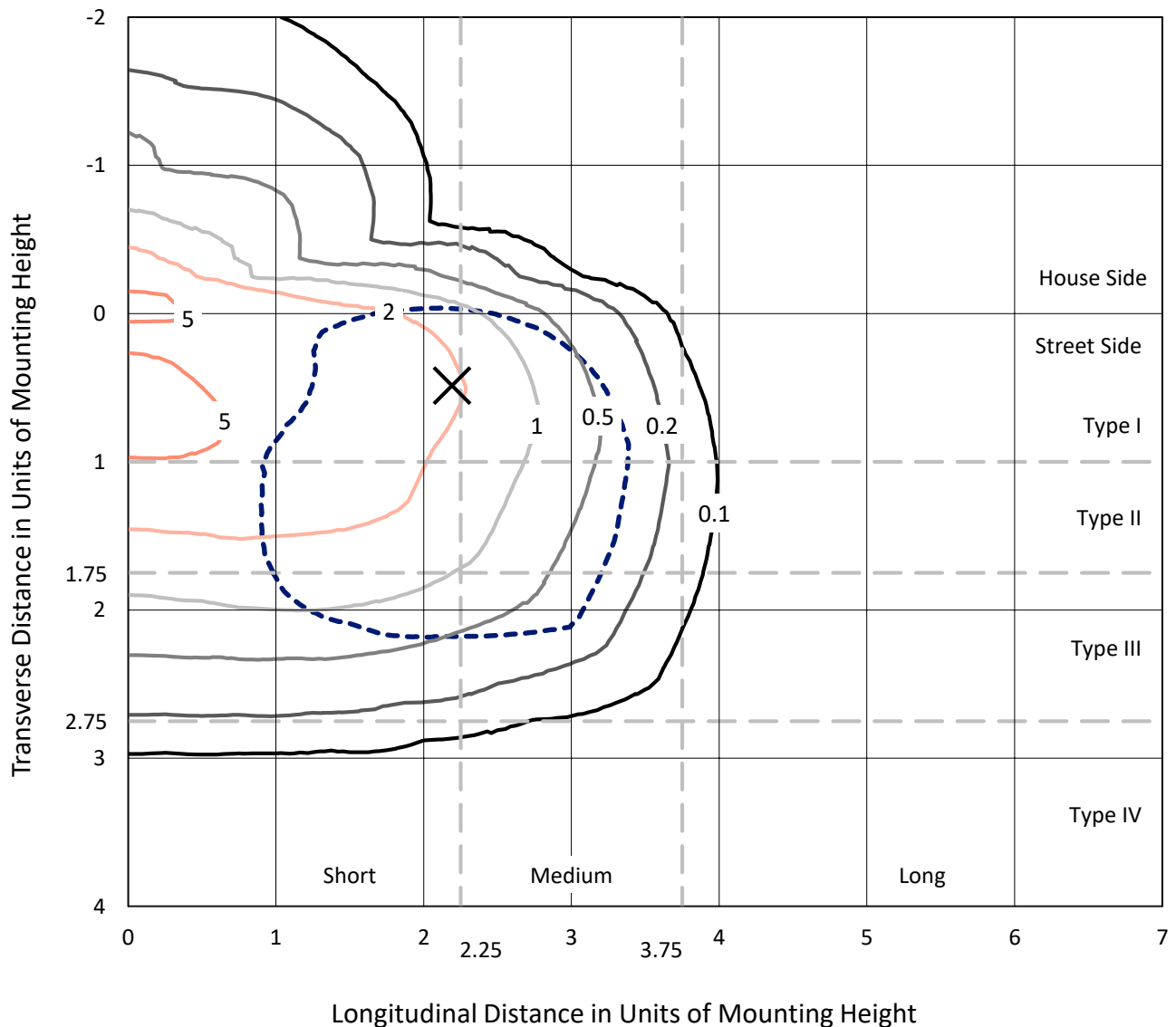


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

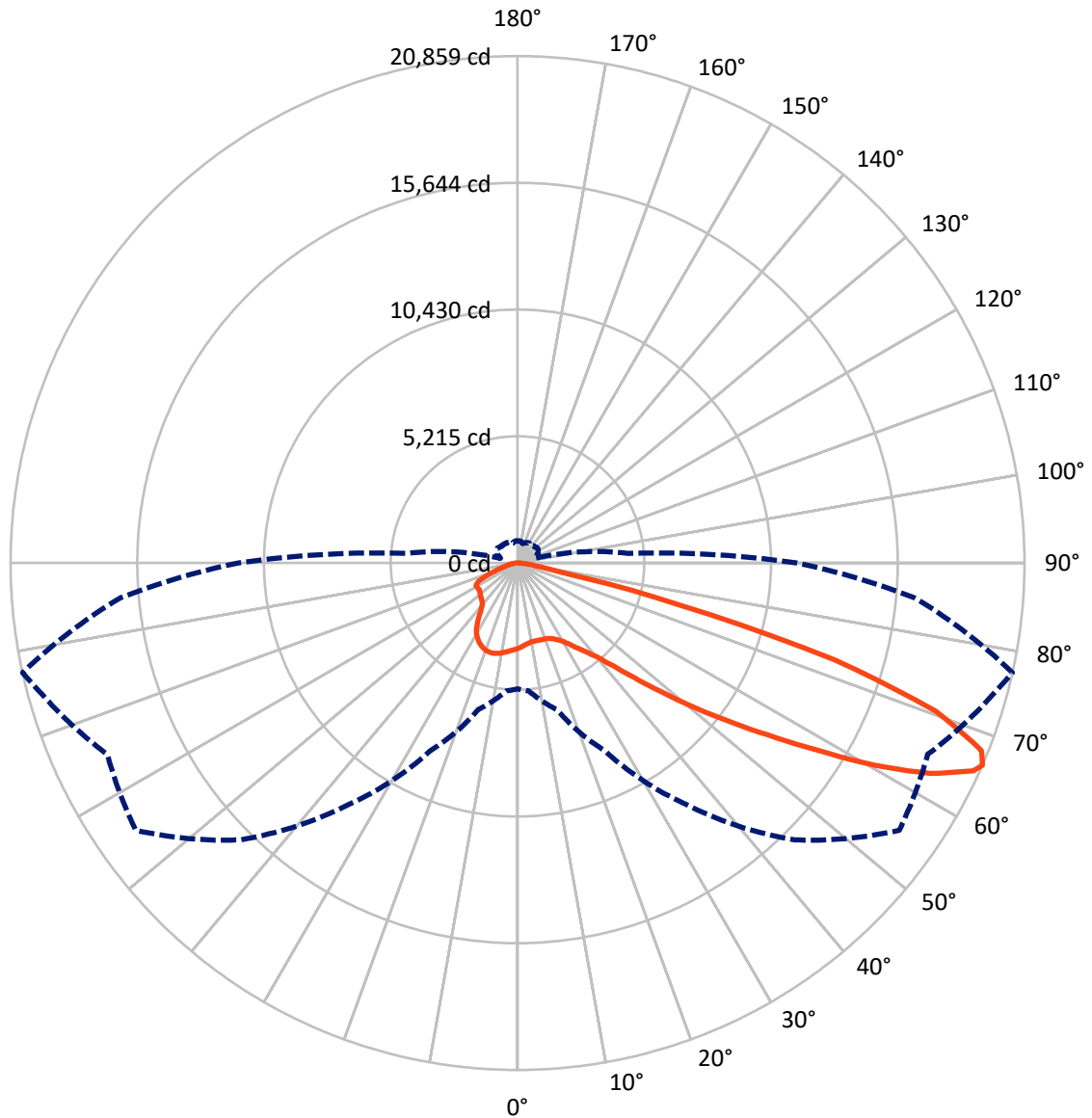


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.9	0.0	4209.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20432.1	0.0	20432.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	24642.0	0.0	24642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.3
10°-20°	885.1	3.6
20°-30°	1510.5	6.1
30°-40°	2418.1	9.8
40°-50°	3735.8	15.2
50°-60°	5298.6	21.5
60°-70°	7088.1	28.8
70°-80°	3078.2	12.5
80°-90°	313.9	1.3
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°	24642.0	100.0
0°-180°	24642.0	100.0



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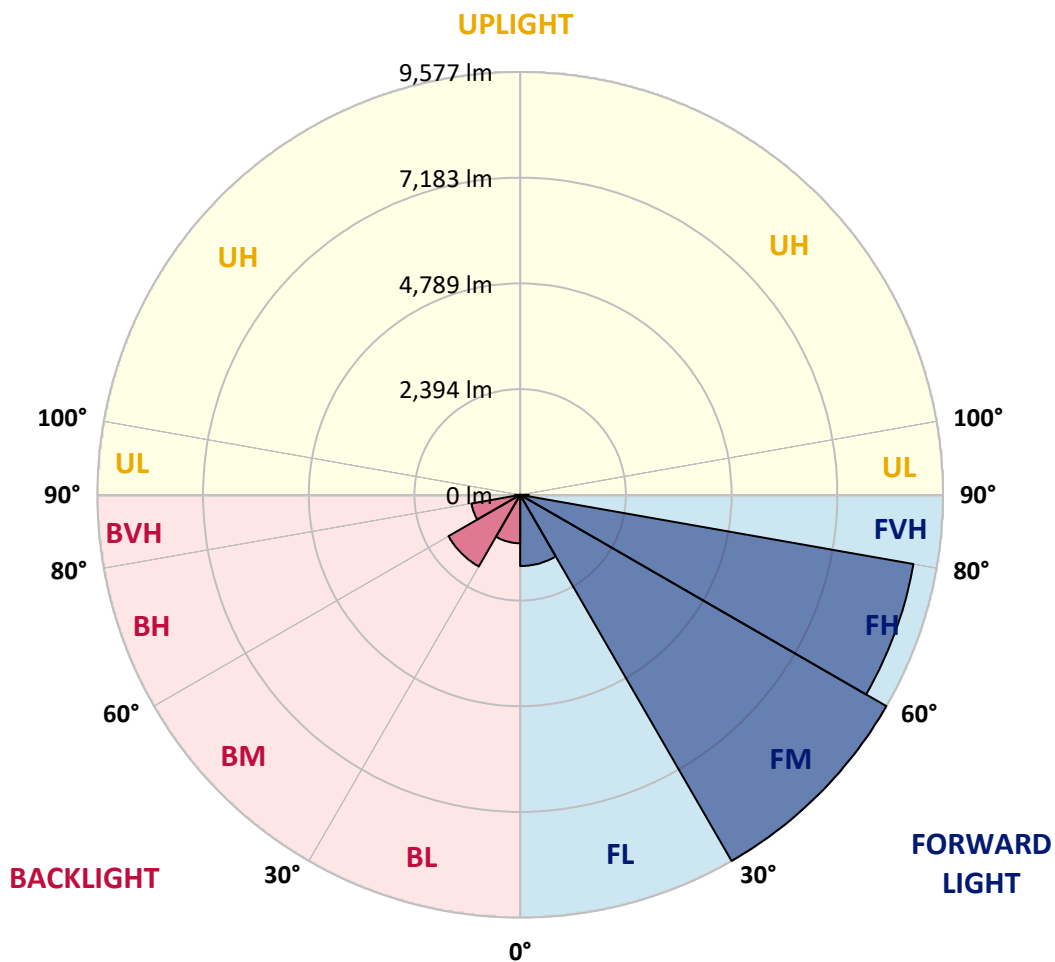
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.9	6.5			
FM	(30°-60°)	9577.2	38.9			
FH	(60°-80°)	9045.1	36.7			G4/12000
FVH	(80°-90°)	196.9	0.8			G2/225
BL	(0°-30°)	1096.4	4.4	B3/2500		
BM	(30°-60°)	1875.3	7.6	B2/2500		
BH	(60°-80°)	1121.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	117.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7
2.5°	3106.3	3127.4	3144.8	3161.1	3193.7	3247.4	3309.0	3359.1	3431.3	3445.2	3483.6
5°	2821.1	2821.1	2835.1	2859.6	2903.9	2984.2	3068.0	3179.8	3336.9	3374.3	3476.7
7.5°	2682.6	2683.7	2692.0	2712.9	2751.2	2824.7	2916.6	3048.2	3261.2	3323.0	3497.6
10°	2733.8	2722.3	2704.7	2694.2	2700.0	2743.2	2830.5	2977.3	3214.8	3293.8	3544.3
12.5°	3020.3	2998.2	2937.5	2857.2	2780.4	2749.0	2800.1	2943.4	3194.9	3286.9	3605.9
15°	3488.3	3479.0	3366.0	3199.6	3013.3	2857.2	2822.4	2930.6	3197.2	3295.1	3679.3
17.5°	4075.2	4062.3	3913.2	3671.2	3367.2	3063.3	2900.4	2941.1	3205.4	3309.0	3750.3
20°	4667.9	4628.2	4467.5	4178.7	3788.7	3343.9	3029.5	2967.9	3215.8	3324.2	3824.9
22.5°	5110.3	5077.6	4933.2	4652.6	4203.2	3668.8	3203.0	3014.4	3249.7	3368.5	3916.8
25°	5499.2	5501.4	5358.2	5086.9	4622.4	4013.4	3426.7	3139.0	3335.8	3459.3	4042.6
27.5°	5979.9	5952.0	5818.1	5549.2	5036.8	4361.6	3696.7	3310.2	3463.9	3588.5	4207.9
30°	6555.1	6535.3	6380.5	6075.4	5496.8	4735.3	4005.4	3509.3	3629.2	3758.5	4424.4
32.5°	7231.6	7222.4	7061.7	6669.2	6027.7	5175.4	4367.4	3772.4	3876.0	4009.9	4735.3
35°	8025.6	8026.9	7837.2	7365.6	6608.7	5687.8	4778.4	4111.3	4176.4	4316.1	5105.5
37.5°	8514.8	8574.1	8503.0	8022.3	7266.6	6260.6	5311.7	4560.6	4518.7	4659.7	5502.6
40°	8619.4	8691.7	8916.3	8671.9	8002.5	6891.6	5784.4	4992.6	4940.3	5112.6	6013.8
42.5°	8472.9	8573.0	9048.0	9220.4	8783.6	7669.4	6420.0	5634.2	5567.9	5799.5	6649.4
45°	8385.5	8460.0	9009.6	9505.5	9461.3	8548.5	7229.3	6439.9	6415.4	6719.3	7383.0
47.5°	8234.1	8301.6	8830.2	9571.9	9859.4	9354.2	8201.5	7424.9	7472.6	7870.9	8210.9
50°	8315.6	8343.5	8629.9	9403.1	9974.8	9944.4	9287.8	8566.0	8729.0	9226.1	9148.1
52.5°	8304.0	8376.2	8606.8	9126.1	9990.0	10308.9	10357.8	9838.5	10182.1	10752.5	10187.9
55°	6713.6	6846.3	8333.0	9056.2	10043.5	10666.5	11310.3	11179.9	11820.3	12485.1	11361.6
57.5°	6410.8	6494.7	7319.0	9202.9	10327.5	11348.6	12369.8	12656.2	13727.4	14499.4	12791.2
60°	6351.3	6455.0	7308.5	9382.2	10903.9	12460.6	13940.4	14443.5	16048.0	16893.3	14449.2
62.5°	6166.2	6278.1	7239.8	9358.8	11722.4	13998.6	15951.3	16343.7	18248.4	19070.5	15836.0
65°	5579.5	5684.2	6679.7	8982.8	12274.4	15640.4	18331.2	18085.4	19985.8	20604.0	16527.6
66°	5177.8	5280.1	6238.5	8540.4	12146.3	16106.2	19174.1	18624.6	20374.5	20859.0	16392.6
67.5°	4443.0	4523.4	5381.6	7549.4	11465.2	16236.5	19883.3	19029.8	20415.3	20586.5	15620.5
70°	2807.3	2830.5	3497.6	5211.5	8678.9	14081.4	18804.0	18023.9	18731.6	18268.3	13095.2
72.5°	1217.9	1209.7	1678.9	2651.2	4913.5	9448.6	15210.8	14872.0	14693.8	13636.6	9166.8
75°	677.6	686.9	872.1	1230.7	1996.8	4641.1	9950.3	9521.9	8039.7	6860.3	4156.6
77.5°	543.7	556.5	723.0	873.2	896.5	1618.4	4656.2	3788.7	2280.9	1830.3	1155.0
80°	429.6	452.9	631.1	679.9	604.3	667.1	1504.3	1202.7	902.3	827.9	598.5
82.5°	340.0	356.3	541.4	514.5	422.7	449.4	720.7	702.0	586.9	534.4	345.8
85°	244.5	274.8	444.8	387.7	277.0	302.6	478.5	458.8	336.4	274.8	152.5
87.5°	100.2	130.4	314.3	257.4	154.9	140.9	238.7	224.8	159.4	116.4	75.6
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°	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7	3511.7
2.5°	3508.2	3536.1	3572.2	3594.3	3605.9	3614.2	3626.8	3625.6	3629.2	3630.4	3635.0
5°	3531.3	3577.9	3630.4	3644.3	3644.3	3631.6	3618.7	3597.8	3589.5	3587.3	3589.5
7.5°	3592.0	3643.2	3688.6	3672.4	3637.3	3586.2	3519.7	3461.6	3430.1	3419.6	3417.3
10°	3668.8	3730.5	3749.2	3687.5	3585.0	3461.6	3329.9	3234.4	3179.8	3164.6	3160.0
12.5°	3761.9	3820.1	3794.5	3664.1	3474.4	3275.2	3093.7	2941.1	2827.0	2790.9	2788.6
15°	3864.4	3909.9	3820.1	3592.0	3309.0	3015.6	2692.0	2428.7	2286.7	2241.4	2237.9
17.5°	3959.9	3983.2	3805.0	3466.2	3065.6	2590.6	2161.1	1958.3	1909.4	1921.1	1923.5
20°	4041.4	4041.4	3753.7	3285.7	2682.6	2030.6	1759.3	1755.7	1790.7	1825.6	1832.6
22.5°	4131.0	4077.4	3664.1	3030.7	2140.0	1661.4	1621.9	1654.5	1694.2	1732.6	1738.3
25°	4241.6	4106.6	3539.5	2644.3	1682.4	1509.0	1524.2	1550.8	1570.6	1595.1	1598.7
27.5°	4365.0	4143.8	3375.4	2112.1	1460.0	1413.6	1425.2	1434.5	1432.1	1441.4	1443.8
30°	4512.9	4186.9	3150.6	1651.1	1368.1	1331.9	1311.0	1302.9	1302.9	1318.1	1323.8
32.5°	4710.9	4251.0	2828.1	1414.7	1323.8	1273.7	1206.2	1176.1	1187.6	1238.9	1250.5
35°	4928.6	4319.7	2391.6	1334.3	1314.5	1246.9	1142.3	1086.3	1087.5	1135.2	1150.4
37.5°	5166.2	4406.9	1913.0	1319.3	1335.5	1248.1	1108.5	1031.7	1000.2	1000.2	1006.0
40°	5470.0	4496.6	1548.6	1329.6	1379.7	1262.1	1091.0	988.6	900.0	902.3	907.0
42.5°	5865.9	4573.5	1352.9	1351.8	1433.2	1280.8	1089.9	931.5	854.6	907.0	954.8
45°	6306.0	4611.9	1266.8	1371.6	1476.4	1292.4	1071.1	922.1	860.4	1016.4	1107.3
47.5°	6812.4	4589.8	1219.1	1378.5	1486.9	1292.4	1050.2	944.3	901.2	1177.0	1283.0
50°	7367.9	4525.8	1172.5	1364.5	1483.3	1290.1	1070.1	966.3	916.4	1205.0	1278.5
52.5°	8021.1	4472.2	1123.6	1334.3	1458.8	1277.3	1093.2	957.1	868.7	1095.7	1146.9
55°	8766.2	4487.4	1068.9	1291.3	1420.5	1252.9	1085.2	919.9	818.5	965.1	996.7
57.5°	9718.7	4667.9	1003.6	1236.4	1368.1	1212.1	1056.0	902.3	803.4	875.6	894.3
60°	10781.6	4982.2	922.1	1181.8	1302.9	1146.9	1033.9	910.5	810.5	868.7	878.0
62.5°	11561.7	5165.0	852.3	1101.4	1214.4	1074.7	1006.0	921.0	829.0	893.0	890.7
65°	11773.6	4864.5	764.9	983.9	1094.5	998.9	971.1	932.6	837.1	912.9	902.3
66°	11476.7	4540.9	726.5	929.1	1033.9	961.7	953.6	931.5	833.6	915.2	897.6
67.5°	10756.0	3877.3	660.2	848.8	937.3	905.9	925.7	921.0	824.4	912.9	888.3
70°	8771.9	2645.4	564.8	706.7	780.1	797.5	872.1	883.8	794.1	872.1	818.5
72.5°	6129.0	1611.4	499.5	548.3	631.1	679.9	798.8	832.5	753.3	761.5	710.2
75°	2962.0	855.7	452.9	425.0	490.1	568.2	710.2	762.7	689.3	636.9	618.3
77.5°	923.3	522.8	384.2	342.3	384.2	458.8	593.8	668.2	613.6	533.2	526.2
80°	496.0	384.2	295.7	274.8	303.8	359.9	466.8	557.7	527.5	478.5	427.4
82.5°	327.2	249.2	218.8	213.1	231.8	274.8	346.9	462.3	462.3	409.8	298.1
85°	168.8	152.5	150.1	150.1	161.9	182.7	236.3	356.3	379.5	216.6	179.3
87.5°	83.8	87.3	81.4	85.0	90.8	89.7	112.9	179.3	214.2	131.6	109.5
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)