

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: P269752

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269752
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-10-LED-E1-T3R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57411.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

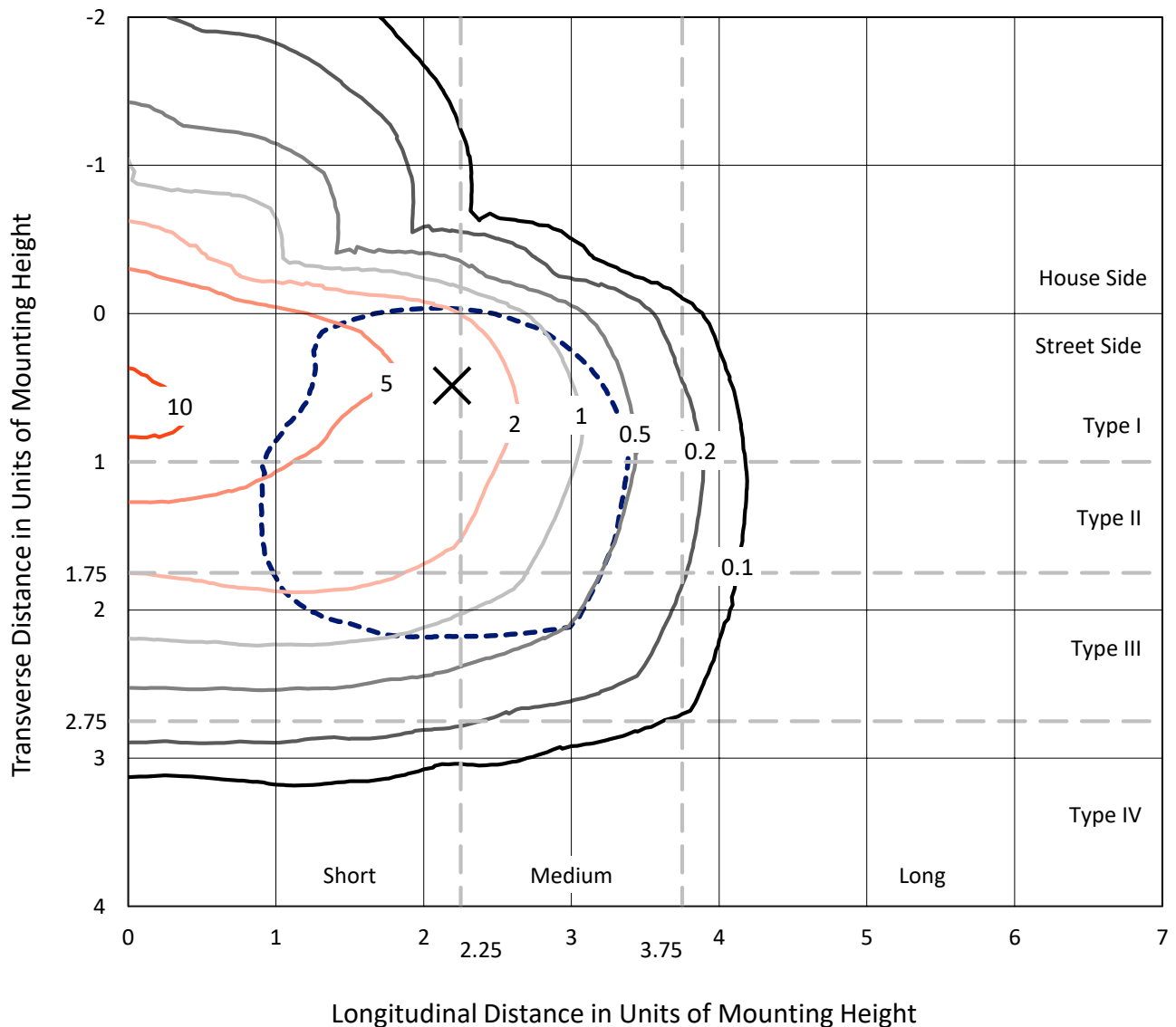


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

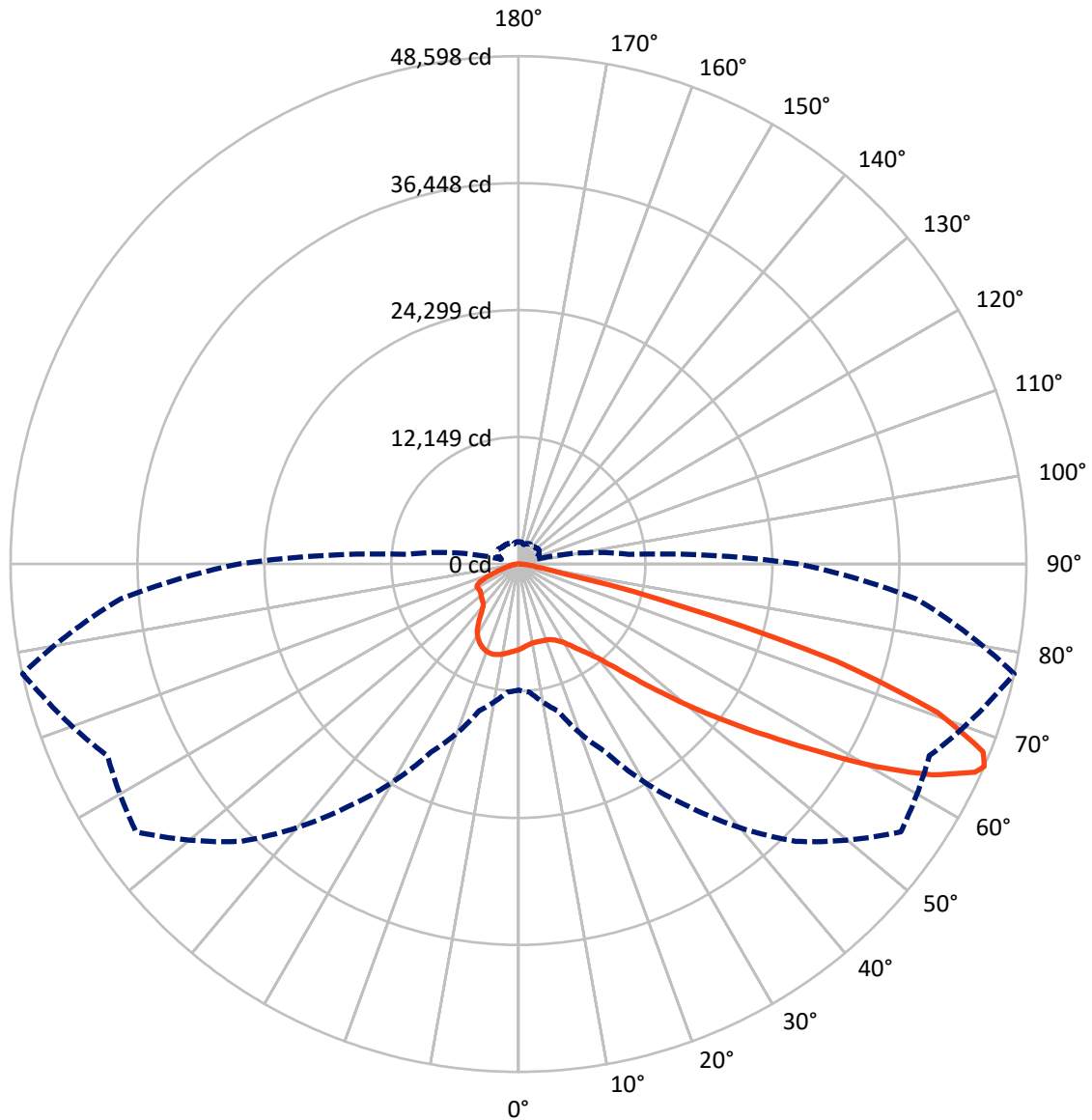


Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - Full Cutoff

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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	9808.5	0.0	9808.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	47603.3	0.0	47603.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	57411.8	0.0	57411.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.9	1.3
10°-20°	2062.1	3.6
20°-30°	3519.3	6.1
30°-40°	5633.8	9.8
40°-50°	8703.7	15.2
50°-60°	12344.8	21.5
60°-70°	16514.0	28.8
70°-80°	7171.7	12.5
80°-90°	731.3	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°	57411.8	100.0
0°-180°	57411.8	100.0



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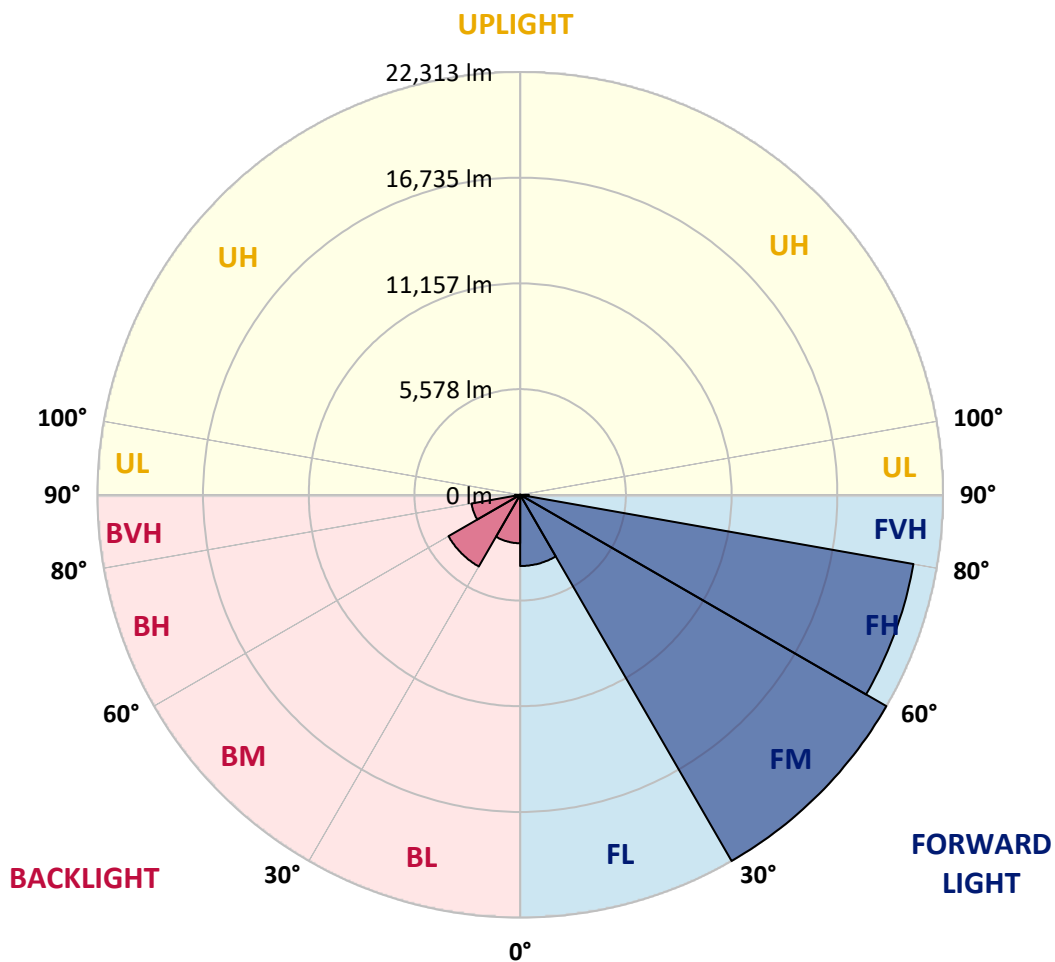
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3757.9	6.5			
FM	(30°-60°)	22313.2	38.9			
FH	(60°-80°)	21073.6	36.7			G5
FVH	(80°-90°)	458.6	0.8			G3/500
BL	(0°-30°)	2554.5	4.4	B4/5000		
BM	(30°-60°)	4369.1	7.6	B3/5000		
BH	(60°-80°)	2612.2	4.5	B4/5000		G4/5000
BVH	(80°-90°)	272.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5
2.5°	7237.5	7286.2	7326.9	7364.9	7440.9	7565.6	7709.4	7826.0	7994.2	8026.9	8116.4
5°	6572.8	6572.8	6605.3	6662.4	6765.5	6952.6	7148.0	7408.3	7774.6	7861.3	8100.0
7.5°	6250.0	6252.7	6271.7	6320.6	6410.0	6581.0	6795.3	7101.8	7598.3	7742.0	8148.9
10°	6369.4	6342.3	6301.6	6277.1	6290.7	6391.1	6594.5	6936.4	7489.7	7674.2	8257.4
12.5°	7036.8	6985.2	6844.0	6656.9	6477.9	6404.6	6524.0	6857.7	7443.5	7658.0	8401.2
15°	8127.1	8105.4	7842.4	7454.4	7020.4	6656.9	6575.6	6827.7	7449.0	7676.8	8572.0
17.5°	9494.4	9464.5	9117.3	8553.1	7845.1	7137.0	6757.3	6852.2	7468.0	7709.4	8737.5
20°	10875.2	10783.0	10408.5	9735.8	8827.0	7790.8	7058.4	6914.7	7492.5	7744.6	8911.1
22.5°	11906.0	11830.0	11493.6	10839.8	9792.9	8547.6	7462.6	7023.0	7571.0	7847.9	9125.4
25°	12811.9	12817.5	12483.7	11851.7	10769.3	9350.5	7983.4	7313.5	7771.9	8059.4	9418.4
27.5°	13932.4	13867.2	13555.2	12928.6	11735.1	10161.6	8612.8	7712.2	8070.3	8360.4	9803.7
30°	15272.4	15226.4	14865.5	14154.8	12806.5	11032.4	9331.7	8176.1	8455.4	8756.6	10308.2
32.5°	16848.5	16826.8	16452.4	15538.3	14043.6	12057.9	10175.3	8789.0	9030.5	9342.5	11032.4
35°	18698.5	18701.3	18259.0	17160.4	15397.2	13251.4	11132.9	9578.4	9730.4	10055.8	11895.0
37.5°	19837.8	19976.1	19810.7	18690.3	16929.8	14586.0	12375.3	10625.6	10528.0	10856.1	12820.2
40°	20082.0	20250.1	20773.8	20204.0	18644.2	16056.3	13476.6	11632.1	11510.0	11911.3	14011.0
42.5°	19740.2	19973.5	21080.3	21481.7	20464.5	17868.5	14957.7	13126.7	12972.1	13511.9	15492.1
45°	19536.8	19710.3	20990.8	22146.4	22043.2	19916.5	16843.0	15003.9	14946.9	15654.9	17201.1
47.5°	19184.2	19341.4	20573.0	22301.0	22971.0	21793.7	19108.1	17298.8	17410.1	18337.7	19129.9
50°	19373.9	19439.1	20106.5	21907.7	23239.5	23169.1	21639.0	19957.3	20337.0	21495.4	21313.5
52.5°	19346.8	19515.0	20052.1	21262.1	23274.8	24018.2	24132.0	22922.2	23722.4	25051.7	23735.9
55°	15641.3	15950.6	19414.7	21099.2	23399.6	24850.9	26351.1	26047.2	27539.2	29088.0	26470.4
57.5°	14935.9	15131.3	17051.9	21441.0	24061.6	26440.5	28819.6	29486.9	31982.5	33781.0	29801.5
60°	14797.7	15039.2	17027.6	21858.7	25404.2	29031.2	32478.9	33650.8	37388.8	39358.2	33664.4
62.5°	14366.4	14626.8	16867.5	21804.5	27311.3	32614.6	37163.7	38078.0	42515.8	44431.0	36895.1
65°	12999.2	13243.4	15562.6	20928.4	28597.2	36439.4	42708.5	42136.1	46563.1	48003.5	38506.6
66°	12063.2	12302.0	14534.5	19897.5	28298.6	37524.4	44672.4	43392.1	47469.2	48597.6	38191.8
67.5°	10351.6	10538.7	12538.1	17589.1	26711.8	37828.3	46324.4	44336.0	47564.1	47962.9	36393.4
70°	6540.3	6594.5	8148.9	12142.0	20220.3	32807.2	43809.8	41992.3	43641.6	42562.0	30509.6
72.5°	2837.4	2818.5	3911.7	6176.7	11447.6	22013.4	35438.4	34649.1	34234.0	31771.0	21356.9
75°	1578.9	1600.5	2031.7	2867.3	4652.2	10812.8	23182.6	22184.4	18731.1	15983.2	9684.3
77.5°	1266.8	1296.7	1684.6	2034.5	2088.7	3770.6	10848.0	8827.0	5314.2	4264.3	2691.1
80°	1001.0	1055.1	1470.3	1584.3	1407.9	1554.3	3504.7	2802.3	2102.4	1928.8	1394.3
82.5°	792.0	830.0	1261.4	1199.0	984.7	1047.2	1679.1	1635.8	1367.2	1245.1	805.7
85°	569.6	640.2	1036.3	903.3	645.6	705.3	1114.8	1068.9	784.0	640.2	355.4
87.5°	233.3	303.8	732.4	599.4	360.8	328.2	556.1	523.5	371.5	271.3	176.3
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°	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5	8181.5
2.5°	8173.3	8238.4	8322.4	8374.0	8401.2	8420.2	8449.9	8447.3	8455.4	8458.1	8469.0
5°	8227.5	8336.1	8458.1	8490.7	8490.7	8460.9	8431.0	8382.2	8363.2	8357.8	8363.2
7.5°	8368.6	8487.9	8593.7	8555.7	8474.4	8355.0	8200.4	8064.9	7991.5	7967.2	7961.7
10°	8547.6	8691.5	8734.8	8591.1	8352.4	8064.9	7758.3	7535.8	7408.3	7373.1	7362.1
12.5°	8764.7	8900.2	8840.6	8536.9	8094.6	7630.8	7207.6	6852.2	6586.5	6502.3	6496.9
15°	9003.4	9109.3	8900.2	8368.6	7709.4	7025.9	6271.7	5658.7	5327.7	5221.8	5213.8
17.5°	9225.9	9280.1	8865.1	8075.7	7142.6	6035.7	5034.7	4562.8	4448.8	4476.0	4481.4
20°	9415.8	9415.8	8745.7	7655.1	6250.0	4731.0	4098.8	4090.7	4172.1	4253.5	4269.7
22.5°	9624.6	9499.8	8536.9	7061.0	4986.0	3870.9	3778.8	3854.7	3947.0	4036.4	4050.0
25°	9882.3	9567.7	8246.5	6160.4	3919.8	3515.6	3550.9	3613.3	3659.4	3716.4	3724.6
27.5°	10169.8	9654.4	7864.0	4920.8	3401.7	3293.1	3320.3	3342.1	3336.7	3358.4	3363.8
30°	10514.3	9754.9	7340.5	3846.6	3187.4	3103.4	3054.4	3035.6	3035.6	3070.8	3084.3
32.5°	10975.5	9904.1	6589.1	3295.9	3084.3	2967.7	2810.3	2739.8	2766.9	2886.3	2913.5
35°	11482.8	10064.0	5571.8	3108.8	3062.6	2905.3	2661.1	2531.0	2533.6	2644.9	2680.2
37.5°	12036.2	10267.4	4456.9	3073.6	3111.5	2908.1	2582.4	2403.4	2330.3	2330.3	2343.8
40°	12744.2	10476.4	3607.9	3097.9	3214.6	2940.5	2541.8	2303.1	2097.0	2102.4	2113.3
42.5°	13666.5	10655.4	3152.2	3149.4	3339.3	2984.0	2539.1	2170.1	1991.2	2113.3	2224.5
45°	14691.9	10744.9	2951.4	3195.5	3439.7	3011.1	2495.8	2148.4	2004.7	2368.2	2579.8
47.5°	15872.0	10693.5	2840.3	3211.8	3464.1	3011.1	2446.9	2199.9	2099.6	2742.5	2989.4
50°	17165.8	10544.1	2731.7	3179.2	3456.0	3005.6	2492.9	2251.5	2134.9	2807.7	2978.5
52.5°	18687.7	10419.4	2617.8	3108.8	3398.9	2975.8	2547.2	2229.9	2023.6	2552.7	2672.0
55°	20423.8	10454.7	2490.2	3008.3	3309.4	2918.9	2528.2	2143.0	1907.0	2248.7	2322.1
57.5°	22642.8	10875.2	2338.4	2880.9	3187.4	2823.9	2460.4	2102.4	1871.8	2040.0	2083.3
60°	25119.5	11607.5	2148.4	2753.3	3035.6	2672.0	2408.8	2121.3	1888.0	2023.6	2045.4
62.5°	26936.9	12033.4	1985.7	2566.2	2829.3	2503.8	2343.8	2145.7	1931.4	2080.7	2075.3
65°	27430.6	11333.6	1782.2	2292.3	2549.8	2327.5	2262.4	2172.9	1950.4	2126.7	2102.4
66°	26738.9	10579.5	1692.8	2164.7	2408.8	2240.7	2221.7	2170.1	1942.2	2132.1	2091.4
67.5°	25059.7	9033.3	1538.1	1977.6	2183.7	2110.5	2156.7	2145.7	1920.5	2126.7	2069.8
70°	20437.3	6163.2	1315.7	1646.7	1817.5	1858.1	2031.7	2058.9	1850.1	2031.7	1907.0
72.5°	14279.5	3754.3	1163.8	1277.7	1470.3	1584.3	1860.8	1939.6	1755.1	1774.2	1654.8
75°	6901.0	1993.8	1055.1	990.1	1142.0	1323.8	1654.8	1776.8	1605.9	1483.8	1440.4
77.5°	2151.1	1218.0	895.3	797.5	895.3	1068.9	1383.5	1557.1	1429.7	1242.4	1226.1
80°	1155.6	895.3	689.0	640.2	708.0	838.2	1087.8	1299.4	1228.8	1114.8	995.5
82.5°	762.2	580.6	510.0	496.5	539.8	640.2	808.4	1077.0	1077.0	954.9	694.4
85°	393.4	355.4	349.9	349.9	377.1	425.8	550.8	830.0	884.3	504.6	417.7
87.5°	195.3	203.5	189.9	198.0	211.6	208.9	263.2	417.7	499.2	306.5	254.9
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)