

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: P533961

Luminaire Tested: **GALN-SA9B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27111 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 364
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: 24 FT



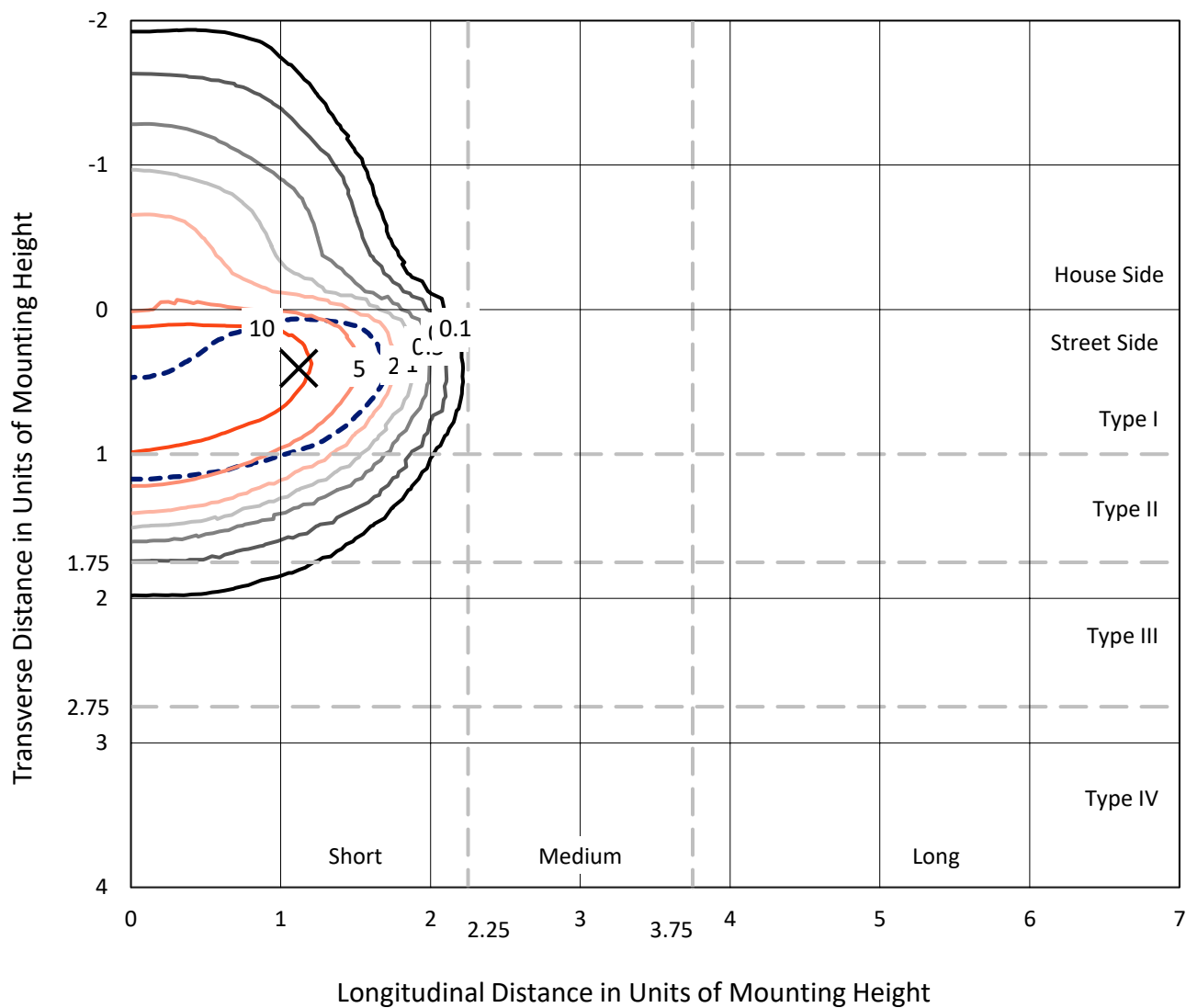
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



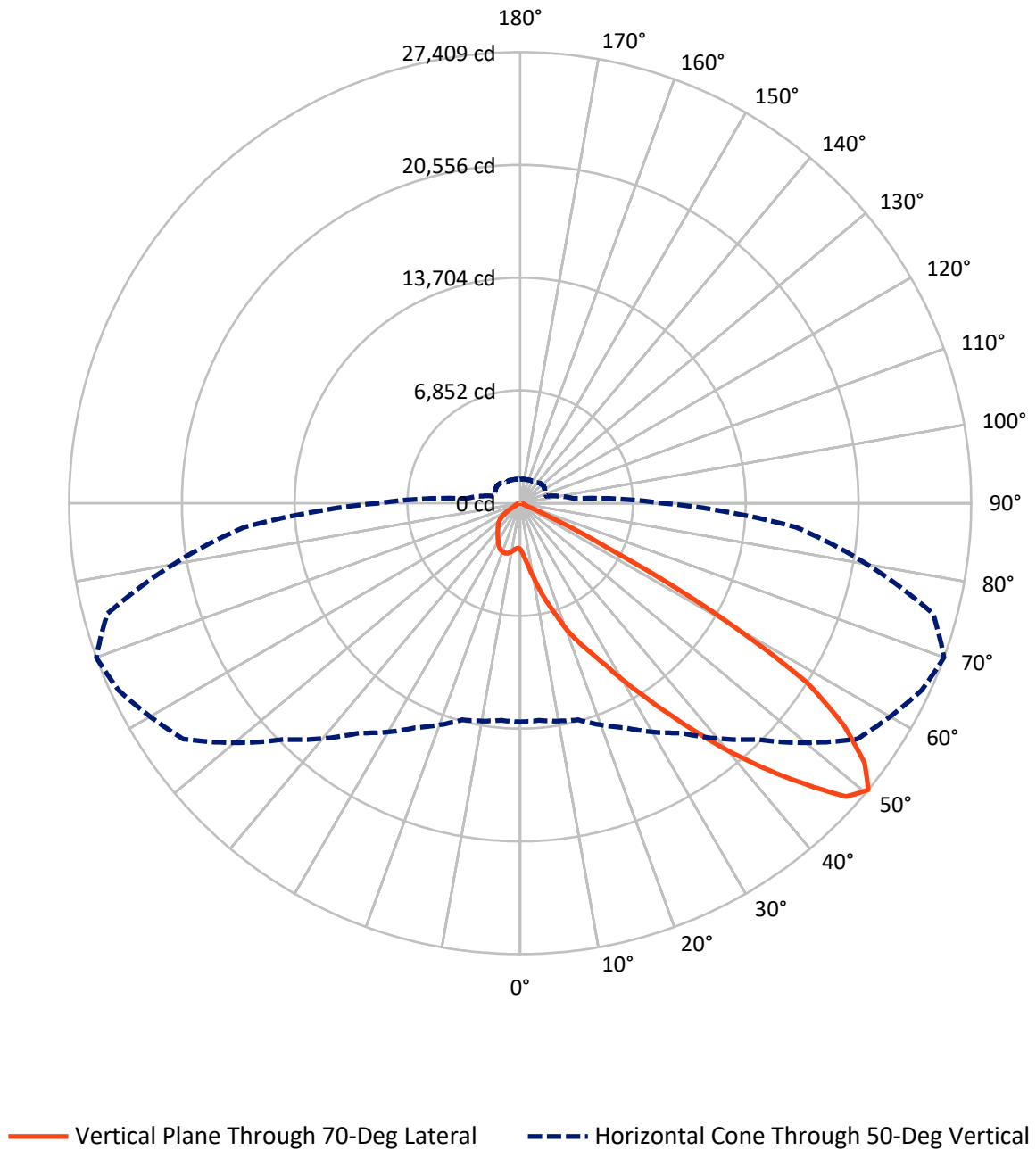
Based on 25 foot mounting height. Maximum calculated value = 16.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3786.2	0.0	3786.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23324.8	0.0	23324.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	27111.0	0.0	27111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	1.3
10°-20°	1579.6	5.8
20°-30°	3313.7	12.2
30°-40°	5711.7	21.1
40°-50°	8347.5	30.8
50°-60°	6501.3	24.0
60°-70°	1101.5	4.1
70°-80°	151.3	0.6
80°-90°	39.2	0.1
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°	27111.0	100.0
0°-180°	27111.0	100.0

Coefficient of Utilization



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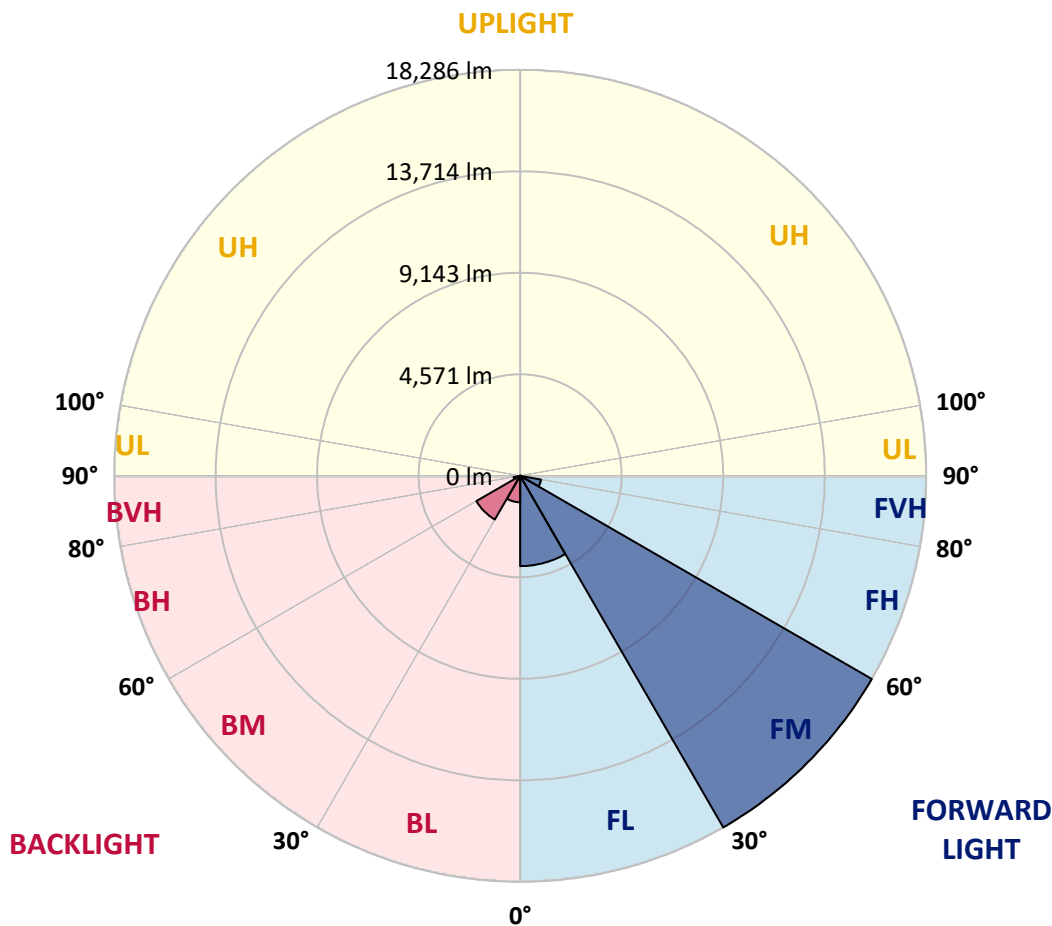
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4067.0	15.0			
FM	(30°-60°)	18285.9	67.4			
FH	(60°-80°)	953.8	3.5			G1/1800
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	1191.4	4.4	B3/2500		
BM	(30°-60°)	2274.6	8.4	B2/2500		
BH	(60°-80°)	299.1	1.1	B1/500		G1/500
BVH	(80°-90°)	21.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	3677.4	3650.6	3592.7	3485.7	3441.1	3334.1	3271.7	3151.4	3075.6	2990.9	2897.3
5°	5179.5	5041.3	4956.6	4836.3	4484.2	4265.7	3904.7	3597.1	3454.5	3298.5	3084.5
7.5°	6730.7	6641.5	6525.6	6267.1	6026.4	5571.8	4952.2	4274.7	3984.9	3717.5	3294.0
10°	8014.4	7764.8	7751.4	7559.8	7296.8	6753.0	6008.6	5166.1	4649.1	4256.8	3592.7
12.5°	8910.4	8683.0	8785.5	8763.3	8518.1	8018.9	7158.6	6044.2	5504.9	4894.2	3900.2
15°	9726.1	9632.5	9601.3	9574.5	9476.4	9106.5	8335.3	7114.0	6334.0	5598.5	4247.9
17.5°	10523.9	10283.2	10399.1	10421.4	10412.5	10078.2	9356.1	8130.3	7212.1	6342.9	4613.4
20°	11232.7	11255.0	11098.9	11067.7	11041.0	11027.6	10323.4	9137.7	8290.8	7122.9	5090.4
22.5°	12142.0	11986.0	12124.1	12035.0	11861.2	11754.2	11214.8	10029.2	9226.8	8063.4	5576.2
25°	13216.2	13341.0	13015.6	12980.0	12788.3	12418.3	11932.5	11027.6	10127.2	8937.1	6102.2
27.5°	14540.1	14321.6	14237.0	14040.8	13693.2	13537.1	12966.6	12057.3	11214.8	9855.3	6610.3
30°	15676.7	15618.8	15195.3	14963.5	14660.4	14656.0	13858.1	13452.5	12632.3	11295.1	7310.1
32.5°	16603.8	16349.8	16193.8	16033.3	15788.1	15855.0	15181.9	14968.0	14143.3	12632.3	8134.8
35°	17223.4	17040.7	16947.1	16701.9	16630.6	16929.2	16648.4	16559.3	15881.7	14513.3	9102.0
37.5°	17419.5	17477.5	17459.7	17152.1	17303.6	18110.4	18471.5	18239.7	17883.1	16496.9	10149.5
40°	17593.4	17633.5	17544.3	17905.4	18337.8	19256.0	20562.0	20178.7	20045.0	18507.1	11607.1
42.5°	17691.4	17660.2	17660.2	18284.3	18939.5	20784.9	22581.2	22327.1	22224.6	20646.7	13292.0
45°	17268.0	16964.9	17290.3	18137.2	19456.6	21538.2	24194.8	24546.9	24399.8	23191.9	15262.2
47.5°	15685.6	15872.8	16055.6	17187.8	18828.1	21306.4	25184.3	26383.4	26655.3	25331.4	16554.8
50°	13292.0	13251.9	13630.7	15057.1	17049.6	20307.9	24992.7	26913.8	27408.6	25973.3	16826.7
52.5°	9668.1	9962.3	10372.4	11789.8	14152.3	17722.6	22518.8	25545.4	26205.1	25184.3	16648.4
55°	5629.7	5304.3	6227.0	7426.0	9654.7	13367.8	19037.6	22643.6	23865.0	23749.1	15748.0
57.5°	2255.4	2184.1	2500.6	3369.8	5036.9	8286.3	13844.7	18605.2	20562.0	21752.1	13840.2
60°	989.5	967.3	1136.6	1372.9	2059.3	3820.0	7573.1	11571.4	13612.9	15199.8	9525.5
62.5°	713.2	704.3	789.0	873.7	1087.6	1662.6	3182.6	4662.4	5812.5	7020.4	4265.7
65°	575.0	597.3	655.2	699.8	802.3	922.7	1123.3	1297.1	1591.3	1649.2	940.5
67.5°	468.0	485.9	539.3	588.4	606.2	499.2	517.1	454.7	454.7	405.6	325.4
70°	343.2	347.7	410.1	468.0	374.4	200.6	352.1	352.1	316.5	303.1	276.4
72.5°	254.1	258.5	307.6	289.7	147.1	124.8	258.5	285.3	258.5	245.2	222.9
75°	187.2	191.7	160.5	66.9	62.4	80.2	151.6	196.1	187.2	182.8	169.4
77.5°	35.7	26.7	22.3	31.2	44.6	66.9	98.1	120.3	124.8	133.7	124.8
80°	4.5	4.5	13.4	26.7	49.0	71.3	102.5	115.9	120.3	124.8	115.9
82.5°	0.0	4.5	13.4	26.7	49.0	66.9	89.1	102.5	111.4	115.9	111.4
85°	0.0	4.5	8.9	22.3	40.1	49.0	44.6	31.2	26.7	31.2	22.3
87.5°	0.0	0.0	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	2843.8	2826.0	2763.6	2696.7	2638.8	2665.5	2638.8	2616.5	2625.4	2616.5	2607.6
5°	2999.8	2919.6	2785.9	2727.9	2678.9	2674.4	2661.1	2656.6	2661.1	2661.1	2621.0
7.5°	3146.9	3017.7	2875.0	2812.6	2754.7	2759.1	2727.9	2727.9	2723.5	2701.2	2692.3
10°	3369.8	3196.0	3013.2	2901.8	2830.5	2817.1	2785.9	2754.7	2754.7	2754.7	2710.1
12.5°	3615.0	3396.5	3146.9	3017.7	2933.0	2866.1	2817.1	2808.2	2759.1	2750.2	2727.9
15°	3828.9	3552.6	3236.1	3057.8	2950.8	2861.7	2785.9	2736.8	2714.6	2701.2	2683.4
17.5°	4038.4	3686.3	3285.1	3057.8	2941.9	2839.4	2759.1	2714.6	2661.1	2670.0	2634.3
20°	4319.2	3828.9	3298.5	2999.8	2857.2	2759.1	2652.2	2629.9	2598.7	2571.9	2580.8
22.5°	4591.1	3931.4	3258.4	2928.5	2723.5	2607.6	2554.1	2527.3	2514.0	2491.7	2460.5
25°	4836.3	4042.9	3196.0	2799.3	2580.8	2496.1	2447.1	2442.7	2411.5	2411.5	2353.5
27.5°	5085.9	4083.0	3089.0	2647.7	2456.0	2407.0	2384.7	2375.8	2362.4	2331.2	2291.1
30°	5371.2	4096.4	2933.0	2491.7	2344.6	2291.1	2322.3	2344.6	2286.6	2228.7	2246.5
32.5°	5607.4	4065.2	2745.8	2344.6	2264.4	2237.6	2300.0	2322.3	2255.4	2193.0	2161.8
35°	5892.7	3989.4	2563.0	2228.7	2184.1	2237.6	2291.1	2291.1	2157.4	2081.6	2063.8
37.5°	6325.1	3904.7	2393.6	2130.6	2099.4	2210.9	2282.2	2233.2	2023.7	1930.1	1907.8
40°	6788.6	3851.2	2228.7	2032.6	2054.9	2166.3	2206.4	2054.9	1840.9	1783.0	1765.1
42.5°	7461.7	3744.2	2081.6	1947.9	2014.7	2103.9	2103.9	1832.0	1751.8	1720.6	1716.1
45°	8299.7	3668.4	1952.3	1876.6	1956.8	1979.1	1907.8	1716.1	1658.2	1649.2	1653.7
47.5°	8709.8	3521.4	1818.6	1791.9	1849.8	1854.3	1667.1	1622.5	1573.5	1560.1	1551.2
50°	8647.4	3258.4	1644.8	1680.4	1760.7	1716.1	1520.0	1528.9	1484.3	1479.9	1457.6
52.5°	8210.5	2843.8	1470.9	1555.6	1644.8	1515.5	1399.6	1390.7	1390.7	1332.8	1310.5
55°	7278.9	2291.1	1261.4	1368.4	1475.4	1274.8	1243.6	1234.7	1212.4	1158.9	1145.6
57.5°	5763.4	1680.4	949.4	1065.3	1252.5	1083.1	1078.7	1038.6	980.6	940.5	940.5
60°	3427.7	967.3	597.3	650.8	829.1	878.1	976.2	958.3	860.3	797.9	780.0
62.5°	1564.5	499.2	378.9	387.8	445.7	570.5	766.7	887.0	748.8	641.9	633.0
65°	526.0	370.0	312.0	298.6	307.6	343.2	459.1	628.5	597.3	494.8	476.9
67.5°	320.9	329.8	294.2	271.9	271.9	267.4	263.0	285.3	352.1	343.2	347.7
70°	276.4	303.1	271.9	245.2	236.2	222.9	187.2	156.0	133.7	156.0	164.9
72.5°	222.9	240.7	231.8	209.5	187.2	169.4	133.7	102.5	75.8	66.9	66.9
75°	164.9	178.3	187.2	160.5	142.6	120.3	98.1	66.9	40.1	26.7	26.7
77.5°	120.3	133.7	138.2	124.8	107.0	84.7	62.4	44.6	22.3	8.9	8.9
80°	102.5	120.3	133.7	124.8	111.4	80.2	57.9	31.2	17.8	4.5	4.5
82.5°	98.1	120.3	133.7	120.3	107.0	75.8	57.9	35.7	13.4	4.5	4.5
85°	22.3	31.2	40.1	49.0	57.9	57.9	44.6	26.7	13.4	4.5	4.5
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	4.5	4.5	0.0
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)