

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: P532314

Luminaire Tested: **GALN-SA7C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32981 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 377
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

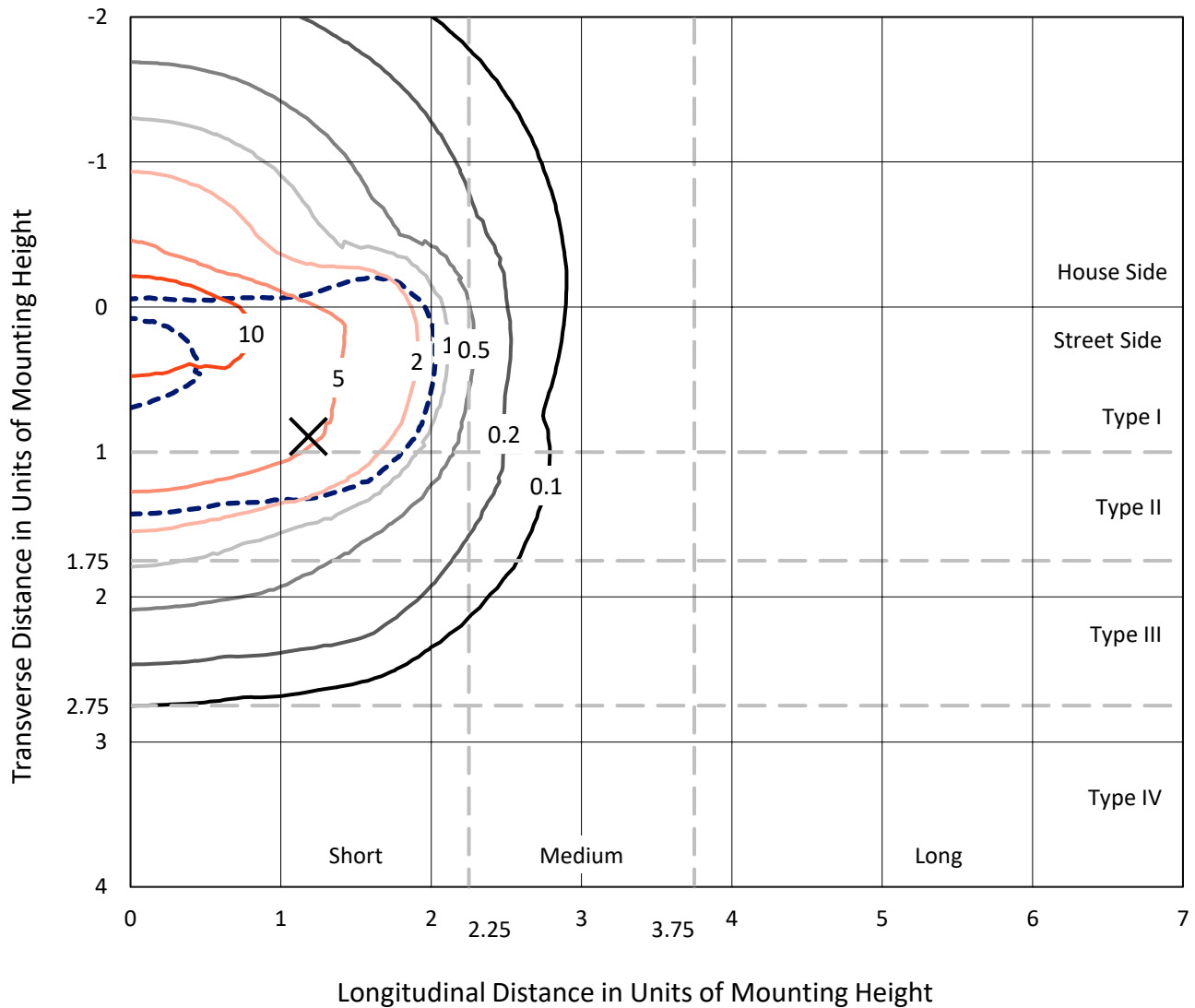


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

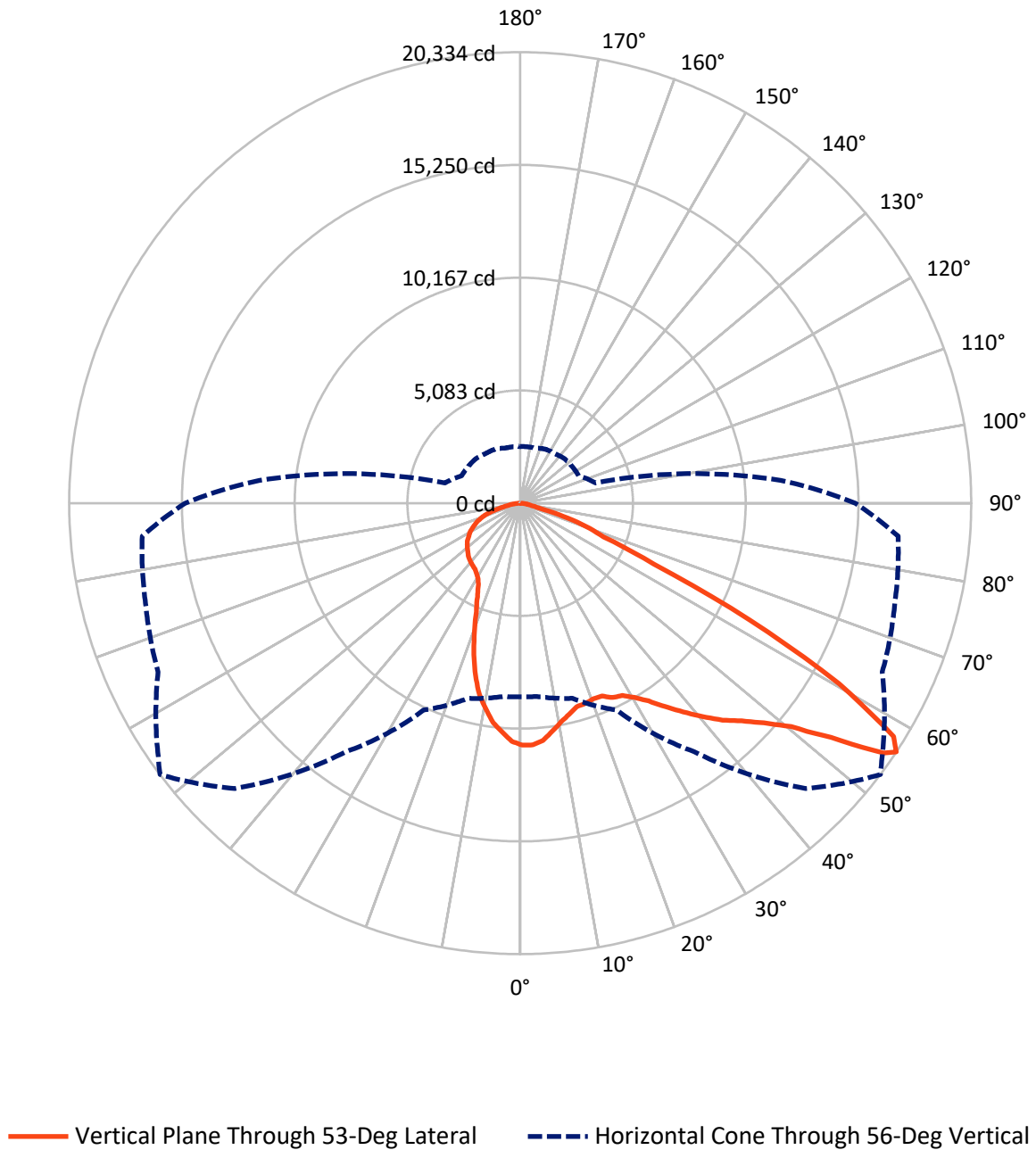


Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9624.6	0.0	9624.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23356.4	0.0	23356.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	32981.0	0.0	32981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	966.0	2.9
10°-20°	2412.6	7.3
20°-30°	3557.6	10.8
30°-40°	5083.1	15.4
40°-50°	6996.1	21.2
50°-60°	8267.6	25.1
60°-70°	4406.1	13.4
70°-80°	1117.8	3.4
80°-90°	174.3	0.5
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°	32981.0	100.0
0°-180°	32981.0	100.0

Coefficient of Utilization



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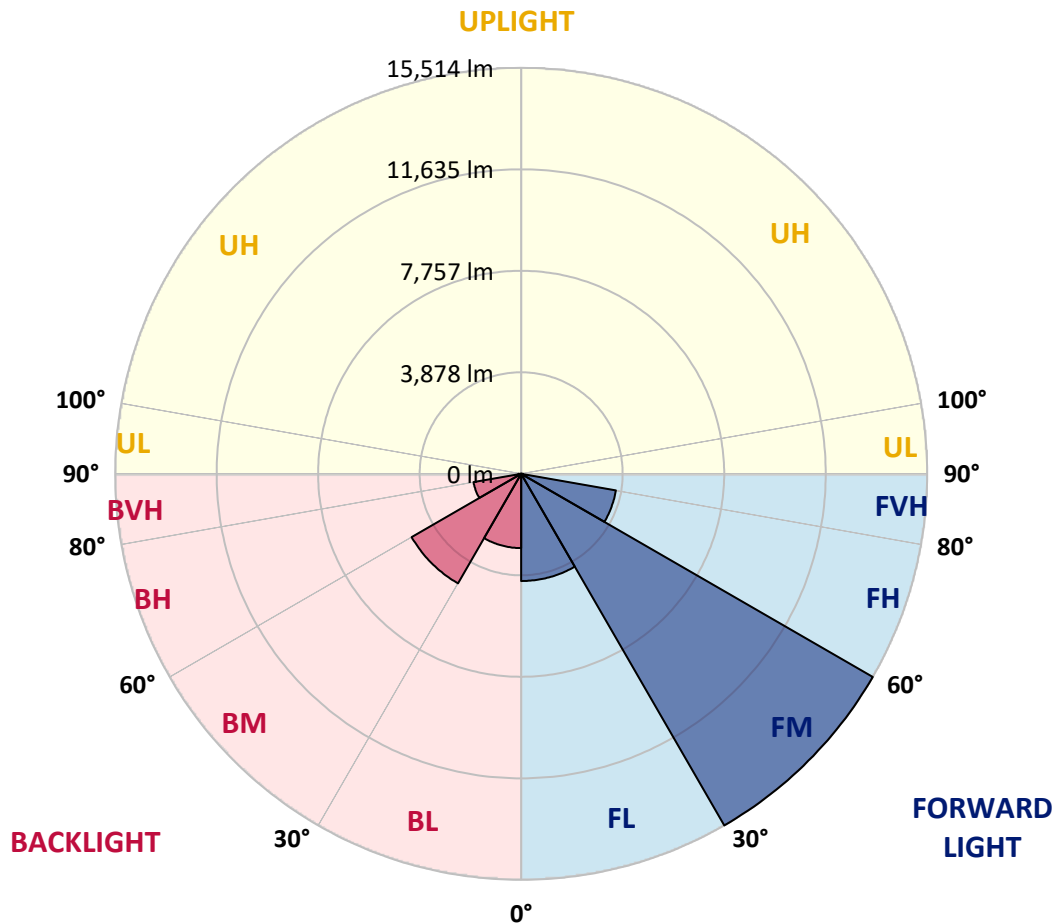
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4097.4	12.4			
FM	(30°-60°)	15513.6	47.0			
FH	(60°-80°)	3675.3	11.1			G2/5000
FVH	(80°-90°)	70.1	0.2			G1/100
BL	(0°-30°)	2838.7	8.6	B4/5000		
BM	(30°-60°)	4833.1	14.7	B3/5000		
BH	(60°-80°)	1848.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	104.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4
2.5°	10776.0	10682.9	10737.9	10716.8	10890.3	10941.0	10915.6	10936.8	11034.1	10987.6	10890.3
5°	10069.5	10200.6	10226.0	10289.5	10391.0	10589.9	10746.4	10788.7	10835.3	11051.0	11029.9
7.5°	9426.4	9515.2	9468.7	9654.8	9874.9	10196.4	10386.8	10420.6	10848.0	10966.4	11055.3
10°	9020.2	8931.4	9142.9	9193.7	9443.3	9811.4	10039.9	10179.5	10568.7	11038.3	11093.3
12.5°	8643.7	8614.1	8741.0	8884.8	9164.1	9544.8	9777.5	9832.5	10433.3	10928.3	11186.4
15°	8364.4	8330.6	8457.5	8563.3	8889.1	9227.5	9523.7	9680.2	10285.2	10864.9	11106.0
17.5°	8144.4	8140.2	8212.1	8402.5	8736.7	9020.2	9498.3	9506.8	10209.1	10962.2	11173.7
20°	8131.7	8127.5	8140.2	8351.7	8656.4	9003.3	9417.9	9494.1	10209.1	10894.5	11178.0
22.5°	8237.5	8169.8	8246.0	8381.4	8601.4	9032.9	9447.5	9616.8	10454.5	11228.7	11368.3
25°	8406.7	8423.7	8466.0	8512.5	8639.4	9100.6	9709.8	9849.5	10742.2	11516.4	11630.7
27.5°	8715.6	8707.1	8724.1	8749.4	8859.4	9164.1	9815.6	10175.2	11343.0	12028.4	11914.1
30°	9168.3	9138.7	9206.4	9295.2	9193.7	9367.1	10166.8	10437.6	11901.4	12544.5	12231.4
32.5°	9578.7	9688.7	9815.6	9853.7	9731.0	9764.8	10632.2	10907.2	12366.8	13179.2	12620.7
35°	10090.6	10179.5	10348.7	10467.2	10446.0	10344.5	11266.8	11630.7	13039.5	13644.6	13031.1
37.5°	10589.9	10695.6	10974.9	11326.0	11131.4	11084.9	11943.7	12244.1	13246.9	13894.2	13331.5
40°	11393.7	11389.5	11871.8	12053.7	12227.2	12146.8	12646.1	12747.6	13356.9	13839.2	13339.9
42.5°	12337.2	12278.0	12768.8	13052.2	13276.5	13284.9	13378.0	13344.2	13407.6	13559.9	13251.1
45°	13234.2	13361.1	13856.1	14363.8	14588.0	14613.4	13995.7	13932.3	13496.5	13479.6	13081.9
47.5°	14330.0	14359.6	14765.7	15434.2	15954.6	15776.9	14795.4	14655.7	13885.7	14016.9	13365.3
50°	14393.4	14613.4	14977.3	15764.2	17363.5	17317.0	15831.9	15569.6	14511.9	14778.4	14156.5
52.5°	13064.9	13014.2	13445.7	14731.9	17257.7	18848.5	17549.7	16923.5	15857.3	15654.2	15438.4
55°	9955.2	10073.7	10454.5	11753.4	14985.7	18869.7	19889.3	19377.4	17295.8	16948.9	16699.2
56°	8732.5	8749.4	9109.1	10293.7	13674.2	18197.0	20333.6	19918.9	18010.8	17482.0	17101.2
57.5°	7239.0	7141.7	7327.9	7975.2	11541.8	16775.4	19847.0	20253.2	18848.5	18057.4	17528.5
60°	5699.0	5677.8	5601.7	5720.1	7294.0	12637.6	16521.5	17435.4	18763.9	17515.8	16788.1
62.5°	4654.0	4548.2	4700.5	4869.7	5068.6	7839.8	11609.5	12146.8	14896.9	13983.0	12612.2
65°	3608.9	3558.2	3748.6	4298.6	4417.0	4979.7	6612.9	7027.5	8796.0	8639.4	7607.1
67.5°	2483.5	2492.0	2657.0	3494.7	4095.5	4044.7	4048.9	4264.7	4590.5	3410.1	2970.1
70°	1573.9	1569.7	1658.5	2250.8	3295.8	3329.7	3160.5	3097.0	2936.2	1777.0	1882.7
72.5°	1011.2	981.6	1028.1	1243.9	1705.0	1971.6	2030.8	2068.9	1700.8	1396.2	1514.7
75°	571.2	541.6	524.6	579.6	672.7	778.5	854.6	880.0	985.8	1057.7	1121.2
77.5°	173.5	156.5	190.4	253.9	334.2	448.5	545.8	562.7	664.2	748.9	812.3
80°	76.2	84.6	118.5	169.2	236.9	317.3	385.0	410.4	478.1	541.6	558.5
82.5°	46.5	50.8	80.4	114.2	165.0	224.2	275.0	283.5	351.2	401.9	414.6
85°	16.9	21.2	42.3	67.7	105.8	143.8	143.8	156.5	143.8	143.8	156.5
87.5°	0.0	0.0	4.2	8.5	8.5	12.7	16.9	16.9	21.2	25.4	29.6
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°	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4	10911.4
2.5°	10941.0	10919.9	10886.0	10763.3	10750.6	10712.6	10501.0	10467.2	10501.0	10399.5	10407.9
5°	10919.9	10983.3	10729.5	10606.8	10378.3	10213.3	10022.9	9925.6	9752.2	9642.2	9764.8
7.5°	11013.0	10987.6	10670.3	10403.7	10061.0	9642.2	9307.9	9117.5	8812.9	8728.3	8791.7
10°	10979.1	10843.7	10471.4	10120.2	9472.9	9104.8	8563.3	8038.7	7751.0	7602.9	7581.7
12.5°	10932.6	10894.5	10272.6	9667.5	8986.4	8212.1	7450.6	6955.6	6485.9	6282.8	6312.5
15°	10987.6	10666.0	9900.2	9134.4	8229.0	7213.6	6392.8	5754.0	5428.2	5297.0	5297.0
17.5°	10962.2	10556.0	9722.5	8537.9	7391.3	6189.8	5288.6	4903.6	4768.2	4768.2	4806.3
20°	10974.9	10627.9	9362.9	7941.3	6401.3	5212.4	4556.6	4417.0	4476.3	4497.4	4518.6
22.5°	11046.8	10391.0	9011.8	7285.6	5483.2	4459.3	4137.8	4142.0	4247.8	4362.0	4340.9
25°	11135.7	10297.9	8584.4	6634.0	4780.9	4091.3	3989.7	3977.0	4057.4	4116.6	4125.1
27.5°	11059.5	10137.2	8148.7	5821.7	4205.5	3845.9	3824.7	3833.2	3858.6	3977.0	3938.9
30°	11309.1	10183.7	7602.9	5140.5	3888.2	3765.5	3740.1	3727.4	3765.5	3799.3	3769.7
32.5°	11618.0	10018.7	7196.7	4484.7	3731.6	3706.2	3655.5	3638.5	3659.7	3625.9	3642.8
35°	11753.4	9989.1	6667.9	4015.1	3608.9	3587.8	3558.2	3553.9	3558.2	3528.5	3503.2
37.5°	11829.5	10128.7	6062.8	3799.3	3532.8	3553.9	3486.2	3477.8	3401.6	3418.5	3431.2
40°	11960.7	9912.9	5572.1	3592.0	3486.2	3443.9	3384.7	3372.0	3321.2	3291.6	3321.2
42.5°	11770.3	9849.5	5089.7	3503.2	3418.5	3372.0	3329.7	3257.8	3240.8	3215.5	3198.5
45°	11618.0	9485.6	4658.2	3393.2	3338.2	3312.8	3232.4	3156.2	3092.8	3118.2	3080.1
47.5°	11732.2	9358.7	4230.9	3300.1	3228.2	3198.5	3118.2	3058.9	2995.5	2965.8	2957.4
50°	12189.1	9595.6	3871.2	3232.4	3135.1	3118.2	3012.4	2944.7	2885.5	2864.3	2872.8
52.5°	13280.7	10242.9	3625.9	3092.8	3046.2	2970.1	2910.8	2826.2	2788.1	2720.4	2762.8
55°	14664.2	11296.4	3562.4	2961.6	2936.2	2868.5	2788.1	2724.7	2652.8	2597.8	2585.1
56°	15108.4	11799.9	3511.6	2910.8	2868.5	2830.5	2724.7	2686.6	2572.4	2559.7	2551.2
57.5°	15468.1	12244.1	3520.1	2813.5	2771.2	2737.4	2673.9	2580.8	2504.7	2458.1	2479.3
60°	14655.7	11461.4	3359.3	2665.4	2657.0	2593.5	2504.7	2462.4	2369.3	2314.3	2301.6
62.5°	10894.5	7780.6	2724.7	2475.1	2470.8	2403.1	2301.6	2255.1	2238.1	2162.0	2162.0
65°	6274.4	4878.2	2356.6	2318.5	2284.7	2217.0	2115.4	2077.4	2035.0	2009.7	1988.5
67.5°	2678.1	2530.1	2140.8	2136.6	2098.5	2013.9	1912.4	1853.1	1798.1	1747.3	1772.7
70°	1942.0	1971.6	1933.5	1912.4	1865.8	1760.0	1671.2	1599.3	1514.7	1480.8	1506.2
72.5°	1540.0	1603.5	1658.5	1662.7	1607.7	1485.0	1387.7	1290.4	1197.3	1150.8	1172.0
75°	1167.7	1210.0	1265.0	1277.7	1197.3	1112.7	1019.6	918.1	846.2	791.2	799.6
77.5°	841.9	833.5	884.3	875.8	837.7	778.5	693.9	600.8	520.4	469.6	473.9
80°	575.4	588.1	617.7	613.5	566.9	528.9	465.4	389.2	330.0	287.7	279.2
82.5°	401.9	423.1	448.5	427.3	389.2	351.2	304.6	249.6	203.1	169.2	160.8
85°	143.8	165.0	190.4	203.1	215.8	207.3	173.5	139.6	101.5	84.6	80.4
87.5°	29.6	33.8	38.1	38.1	38.1	33.8	29.6	29.6	25.4	12.7	12.7
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)