

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: P458278

Luminaire Tested: **GALN-SA9C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50535 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
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

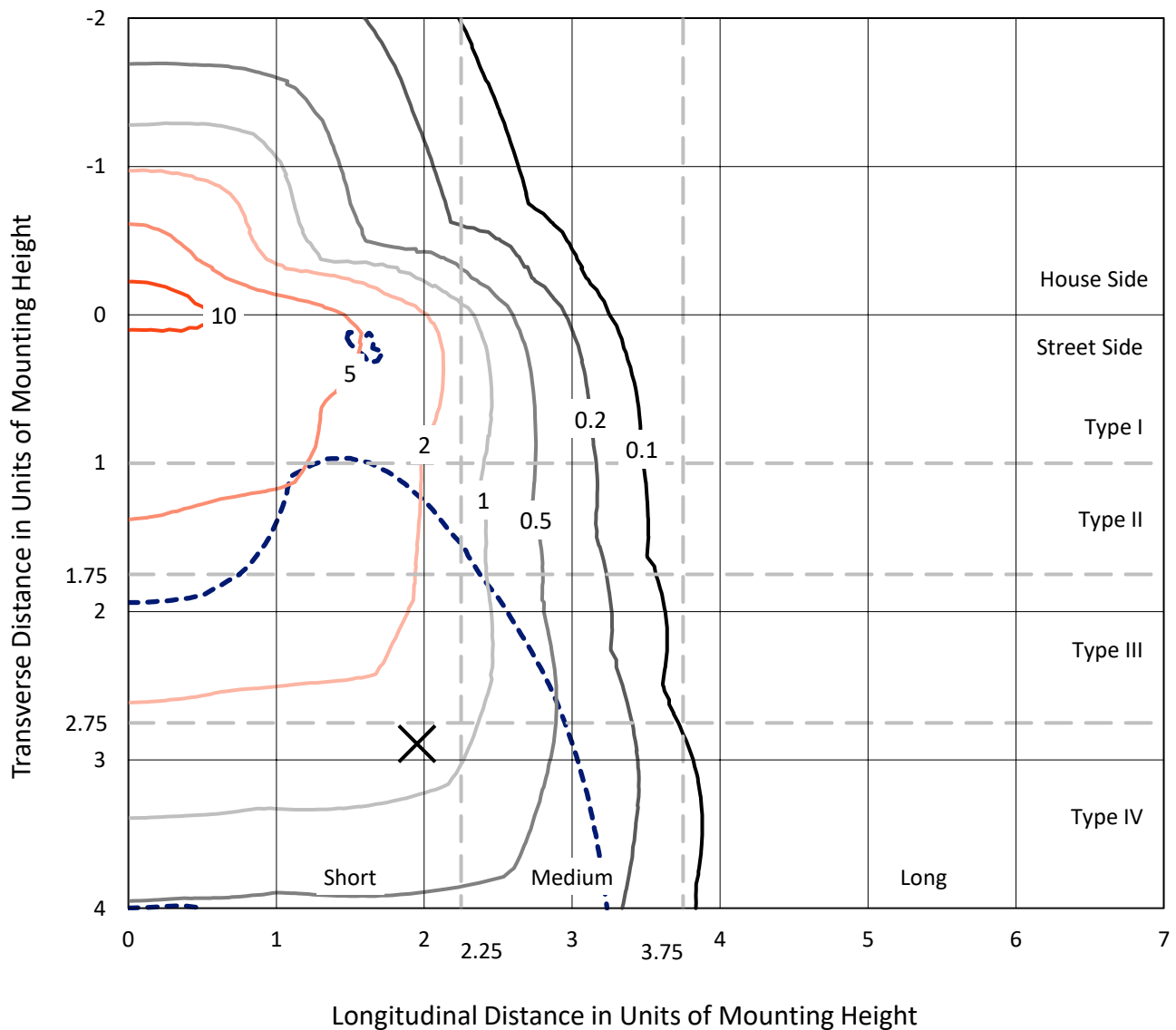


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

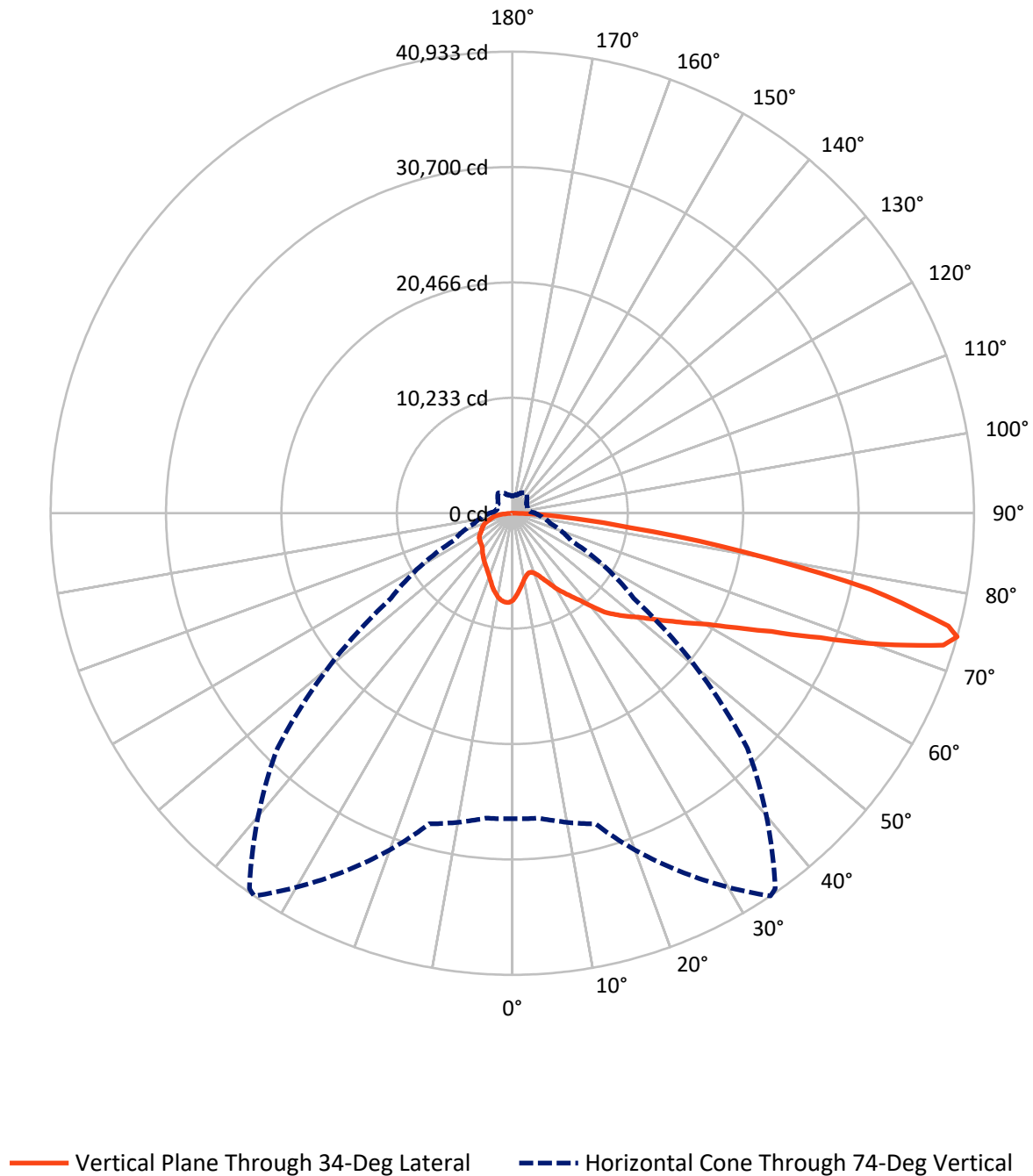


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10754.2	0.0	10754.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	39780.8	0.0	39780.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	50535.0	0.0	50535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.7	1.4
10°-20°	1920.9	3.8
20°-30°	3167.1	6.3
30°-40°	4743.9	9.4
40°-50°	6896.3	13.6
50°-60°	9632.5	19.1
60°-70°	12059.4	23.9
70°-80°	9972.2	19.7
80°-90°	1440.9	2.9
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°	50535.0	100.0
0°-180°	50535.0	100.0

Coefficient of Utilization



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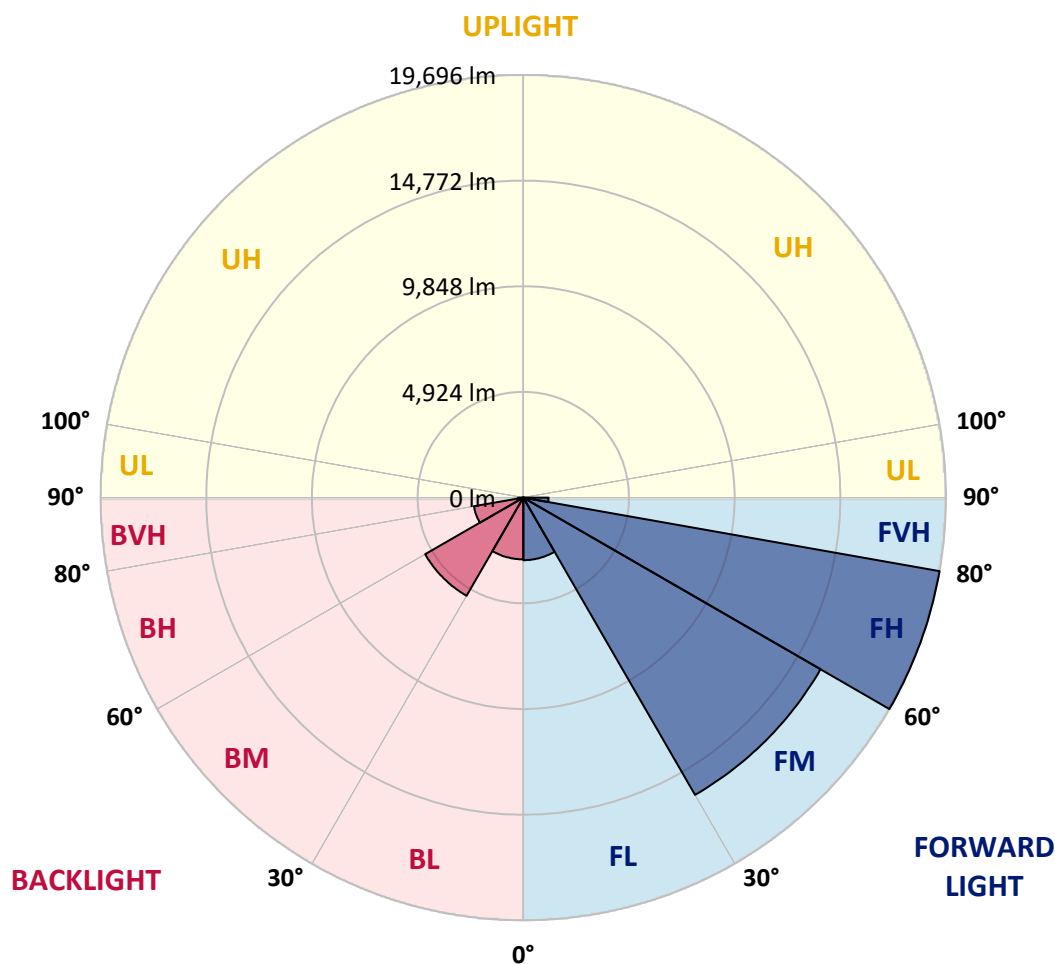
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2913.1	5.8			
FM	(30°-60°)	15991.4	31.6			
FH	(60°-80°)	19695.9	39.0			G5
FVH	(80°-90°)	1180.4	2.3			G5
BL	(0°-30°)	2876.6	5.7	B4/5000		
BM	(30°-60°)	5281.4	10.5	B4/8500		
BH	(60°-80°)	2335.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	260.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7
2.5°	7130.6	7167.0	7186.6	7256.6	7273.4	7295.8	7354.5	7432.9	7533.7	7623.3	7701.7
5°	6537.1	6593.1	6626.7	6688.2	6808.6	6819.8	6976.6	7155.8	7360.1	7550.5	7707.3
7.5°	5974.3	6035.9	6063.9	6175.9	6335.5	6360.7	6590.3	6873.0	7214.6	7502.9	7743.7
10°	5551.6	5582.4	5644.0	5728.0	5918.4	5935.2	6234.7	6612.7	7055.0	7480.5	7805.3
12.5°	5322.0	5338.8	5352.8	5442.4	5630.0	5655.2	5968.7	6397.1	6929.0	7497.3	7906.1
15°	5355.6	5361.2	5299.6	5316.4	5467.6	5504.0	5814.8	6254.3	6850.6	7539.3	8057.2
17.5°	5638.4	5618.8	5467.6	5389.2	5495.6	5512.4	5784.0	6198.3	6814.2	7617.7	8214.0
20°	6083.5	6055.5	5795.2	5621.6	5683.2	5697.2	5884.8	6240.3	6850.6	7746.5	8457.6
22.5°	6637.8	6626.7	6231.9	6021.9	6019.1	6019.1	6117.1	6391.5	6959.8	7922.9	8712.4
25°	7413.3	7354.5	6839.4	6567.9	6492.3	6486.7	6475.5	6640.6	7099.8	8110.4	9014.7
27.5°	8208.4	8107.6	7648.5	7231.4	7069.0	7049.4	6976.6	6993.4	7279.0	8323.2	9359.1
30°	8922.3	8857.9	8426.8	7964.9	7771.7	7726.9	7525.3	7432.9	7578.5	8706.8	9907.8
32.5°	9468.2	9429.0	9093.1	8673.2	8387.6	8379.2	8085.2	8009.7	8046.0	9171.5	10534.9
35°	9910.6	9924.6	9753.8	9389.9	9062.3	9014.7	8818.7	8723.6	8617.2	9843.4	11324.4
37.5°	10515.3	10546.1	10534.9	10221.3	9821.0	9832.2	9787.4	9630.6	9347.9	10593.7	12200.7
40°	11181.6	11204.0	11201.2	11080.8	10870.8	10882.0	10865.2	10686.1	10263.3	11548.3	13174.9
42.5°	12102.7	11996.3	11719.1	11839.5	11962.7	12015.9	12130.7	11959.9	11380.4	12567.4	14090.4
45°	13132.9	12931.3	12304.2	12360.2	12816.6	12917.4	13550.1	13314.9	12592.6	13737.6	15168.2
47.5°	13782.4	13583.7	13054.5	13043.3	13648.0	13746.0	14865.9	14779.1	13695.6	15000.3	16484.0
50°	14361.9	14333.9	13737.6	13880.4	14471.1	14616.7	16299.3	16218.1	14795.9	16489.6	17917.4
52.5°	15221.4	14994.7	14518.7	14812.7	15593.8	15784.1	17721.5	17483.5	15806.5	17805.5	19308.8
55°	15607.8	15554.6	15526.6	15781.3	16853.6	16990.8	19104.5	18558.5	16668.8	18919.7	20367.1
57.5°	16640.8	16542.8	16820.0	16993.6	18337.4	18547.3	20549.1	19681.2	17424.7	19804.4	20882.2
60°	17979.0	17925.8	18180.6	18494.2	19994.7	20313.9	22195.2	20638.6	18032.2	20249.5	20599.4
62.5°	19977.9	19972.3	19924.7	20596.7	22343.6	22637.6	24085.0	21570.9	18127.4	19916.3	19138.1
65°	22844.7	22743.9	22329.6	23063.1	25266.4	25610.7	26053.1	22091.6	17553.5	18205.8	16114.5
67.5°	25843.1	25837.5	25501.5	26453.4	29463.0	29818.5	28513.9	21976.9	15960.5	14748.3	11444.8
70°	28329.1	28208.8	28637.1	31173.5	34824.2	35235.8	30666.8	20624.6	12713.0	9739.8	6800.2
72.5°	28925.5	28931.1	29821.3	34813.0	39972.7	40037.1	31442.3	16716.4	8508.0	5372.4	3401.5
74°	27088.9	27136.5	28516.7	34995.0	40932.9	40641.8	29460.2	13138.5	5753.2	3507.9	2452.4
75°	24726.1	24426.5	26422.6	33782.8	39936.3	39622.7	27139.3	10543.3	4389.8	2802.4	2147.3
77.5°	13219.7	13524.9	16604.4	25210.4	32444.6	32083.4	18401.8	5056.1	2371.3	1951.3	1545.4
80°	4706.1	5190.5	7295.8	13191.7	20801.0	20913.0	8782.3	2318.1	1668.6	1439.0	1091.8
82.5°	1920.5	1973.7	3132.8	5854.0	10562.9	10663.7	3586.3	1377.4	1192.6	991.1	652.3
85°	750.3	772.7	1385.8	2631.6	4507.4	4801.3	1240.2	727.9	733.5	568.3	333.2
87.5°	252.0	285.6	568.3	876.3	1531.4	1500.6	361.1	215.6	263.2	246.4	103.6
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°	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7	7715.7
2.5°	7740.9	7794.1	7830.5	7869.7	7906.1	7917.3	7908.9	7934.1	7936.9	7939.7	7942.5
5°	7785.7	7858.5	7928.5	7967.7	7984.5	7970.5	7922.9	7897.7	7875.3	7858.5	7864.1
7.5°	7847.3	7950.9	8015.3	8032.0	7987.3	7922.9	7805.3	7712.9	7654.1	7614.9	7612.1
10°	7942.5	8043.2	8096.4	8048.8	7925.7	7768.9	7584.1	7410.5	7279.0	7239.8	7237.0
12.5°	8062.8	8177.6	8174.8	8034.8	7819.3	7539.3	7239.8	7038.2	6859.0	6769.4	6805.8
15°	8219.6	8306.4	8225.2	7973.3	7631.7	7248.2	6878.6	6604.3	6402.7	6307.5	6313.1
17.5°	8401.6	8477.2	8261.6	7864.1	7368.5	6875.8	6447.5	6187.1	6027.5	5957.5	5951.9
20°	8628.4	8650.8	8261.6	7673.7	7029.8	6441.9	6033.1	5851.2	5761.6	5725.2	5736.4
22.5°	8871.9	8827.1	8216.8	7404.9	6584.7	5988.3	5714.0	5632.8	5588.0	5582.4	5588.0
25°	9146.3	9020.3	8124.4	7041.0	6119.9	5596.4	5436.8	5450.8	5459.2	5459.2	5478.8
27.5°	9482.2	9230.3	7970.5	6581.9	5576.8	5232.5	5187.7	5285.6	5330.4	5338.8	5352.8
30°	9924.6	9459.8	7715.7	6007.9	5114.9	4904.9	4983.3	5114.9	5165.3	5196.1	5190.5
32.5°	10450.9	9711.8	7371.3	5434.0	4742.5	4675.3	4770.5	4904.9	4960.9	4977.7	4955.3
35°	11069.6	9997.4	6917.8	4896.5	4417.8	4457.0	4568.9	4610.9	4661.3	4661.3	4672.5
37.5°	11735.9	10226.9	6363.5	4403.8	4165.8	4308.6	4389.8	4350.6	4328.2	4300.2	4314.2
40°	12413.4	10397.7	5644.0	3916.6	3913.8	4154.6	4177.0	4065.0	3975.4	3947.4	3933.4
42.5°	13004.1	10504.1	4994.5	3538.7	3675.9	4003.4	4020.2	3841.0	3698.3	3614.3	3586.3
45°	13701.2	10627.3	4359.0	3225.1	3454.7	3883.0	3925.0	3684.3	3474.3	3297.9	3253.1
47.5°	14655.9	10907.2	3857.8	2981.6	3295.1	3807.5	3866.2	3555.5	3278.3	3048.8	3012.4
50°	15733.7	11290.8	3468.7	2816.4	3171.9	3740.3	3813.1	3423.9	3096.4	2841.6	2813.6
52.5°	16722.0	11498.0	3132.8	2668.0	3051.6	3617.1	3743.1	3328.7	2917.2	2634.4	2609.2
55°	17262.3	11162.0	2802.4	2522.4	2886.4	3457.5	3645.1	3197.1	2743.6	2525.2	2488.8
57.5°	17335.1	10467.7	2502.8	2365.7	2712.8	3261.5	3463.1	3037.6	2631.6	2449.6	2418.9
60°	16772.4	9431.8	2270.5	2236.9	2536.4	3040.4	3258.7	2897.6	2516.8	2365.7	2334.9
62.5°	15372.6	8306.4	2108.1	2119.3	2357.3	2808.0	3107.6	2763.2	2407.7	2273.3	2245.3
65°	12964.9	6856.2	1951.3	1998.9	2197.7	2626.0	2970.4	2651.2	2298.5	2203.3	2178.1
67.5°	9006.3	4949.7	1822.5	1872.9	2046.5	2441.3	2810.8	2530.8	2175.3	2124.9	2085.7
70°	4986.1	3046.0	1671.4	1730.2	1889.7	2234.1	2631.6	2348.9	1996.1	1973.7	1917.7
72.5°	2620.4	1940.1	1500.6	1565.0	1677.0	1968.1	2357.3	2150.1	1819.7	1724.6	1651.8
74°	2046.5	1590.2	1385.8	1453.0	1528.6	1811.3	2194.9	2007.3	1693.8	1581.8	1525.8
75°	1783.3	1416.6	1287.8	1374.6	1441.8	1705.0	2068.9	1906.5	1623.8	1517.4	1467.0
77.5°	1259.8	1061.0	1052.6	1156.2	1192.6	1495.0	1864.5	1735.8	1447.4	1335.4	1287.8
80°	884.7	795.1	834.3	898.7	949.1	1321.4	1730.2	1500.6	1187.0	1055.4	1038.7
82.5°	576.7	520.7	596.3	655.1	671.9	974.3	1397.0	1139.4	865.1	702.7	652.3
85°	266.0	260.4	341.6	333.2	330.4	475.9	828.7	666.3	498.3	372.3	349.9
87.5°	67.2	64.4	84.0	70.0	84.0	72.8	75.6	19.6	2.8	0.0	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)