

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: P457806

Luminaire Tested: **GALN-SA9A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33132 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 274
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

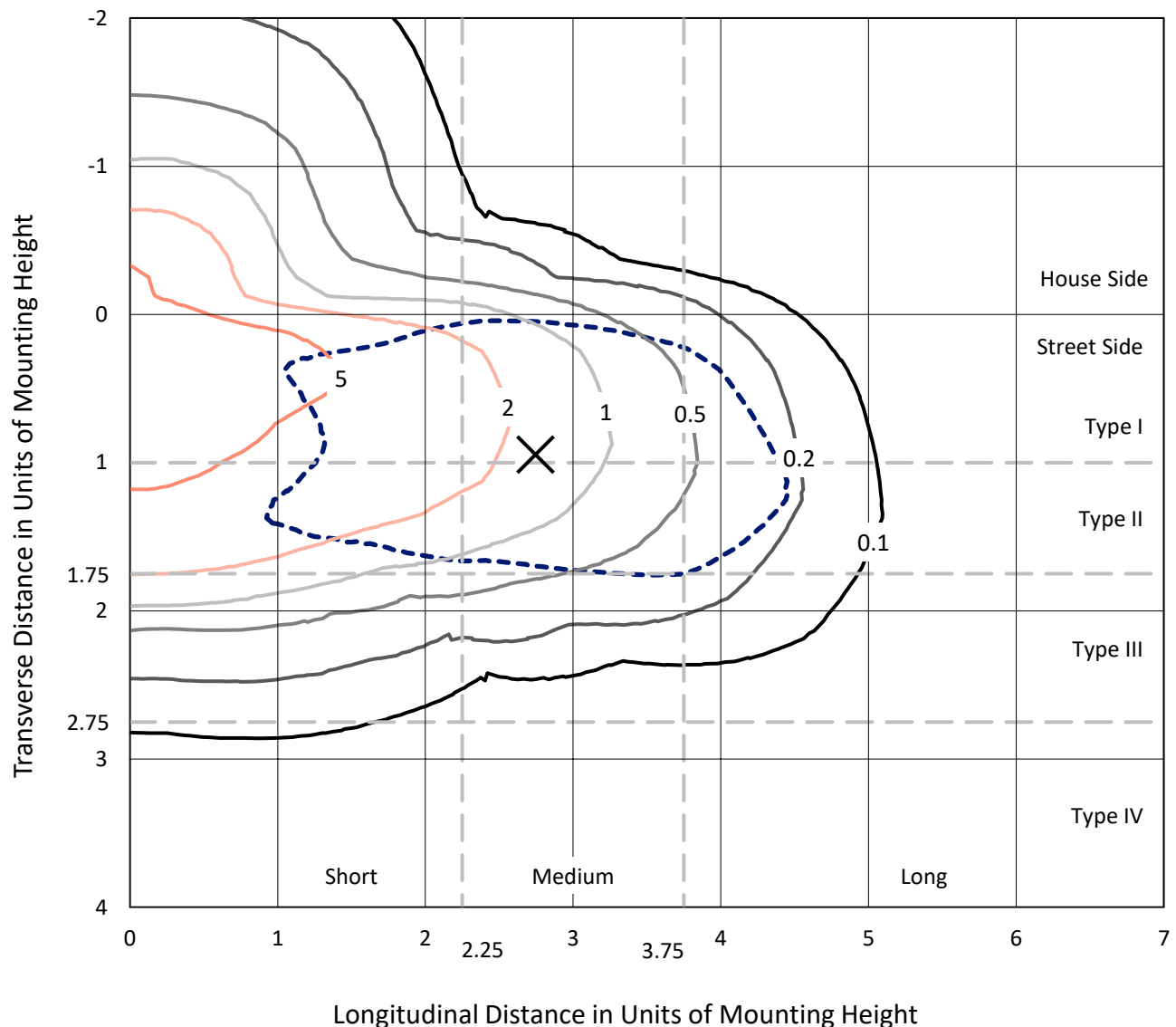


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

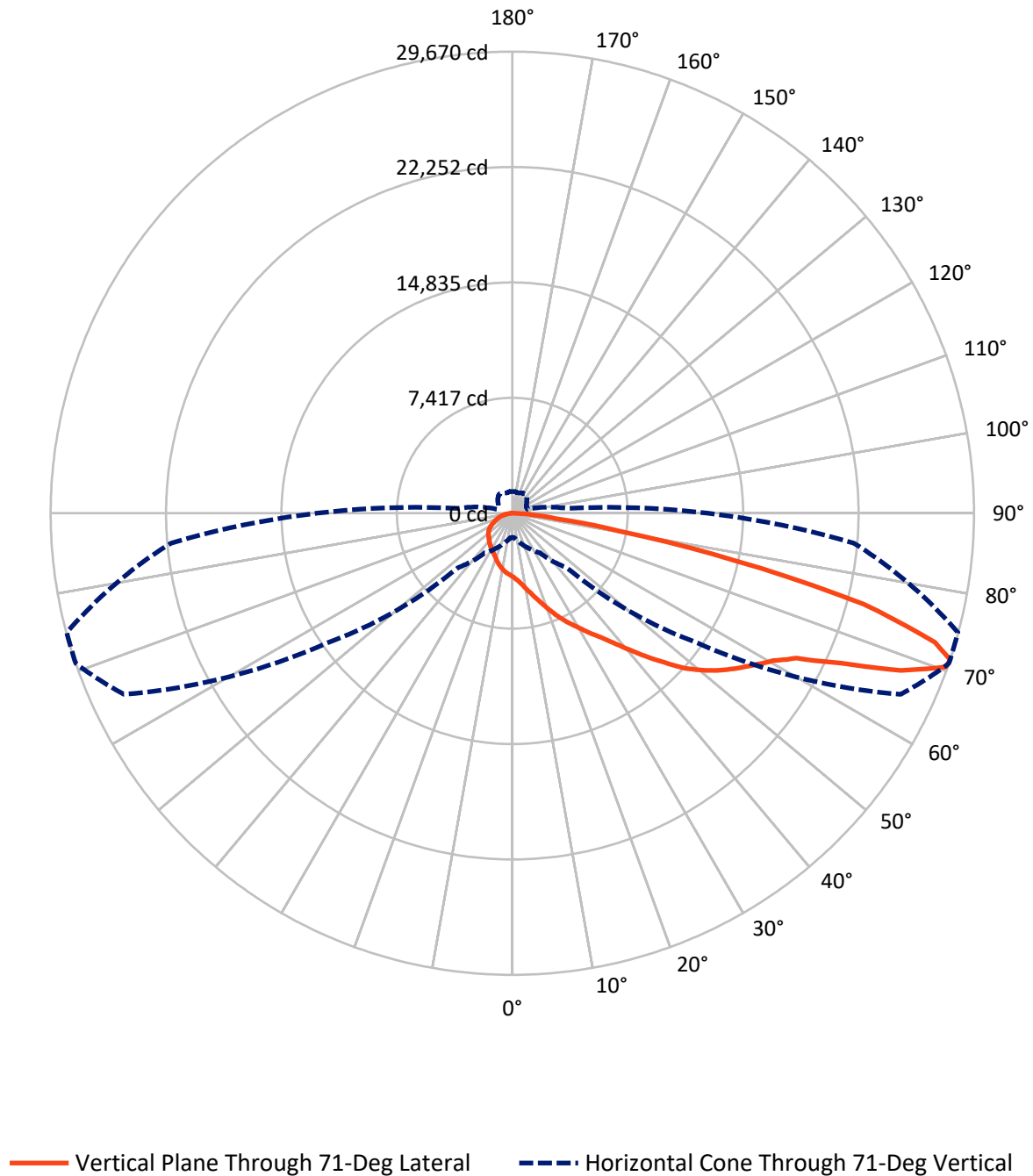


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5958.7	0.0	5958.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27173.3	0.0	27173.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	33132.0	0.0	33132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	1.2
10°-20°	1326.5	4.0
20°-30°	2318.1	7.0
30°-40°	3447.9	10.4
40°-50°	5080.1	15.3
50°-60°	7112.2	21.5
60°-70°	7954.8	24.0
70°-80°	4859.1	14.7
80°-90°	625.1	1.9
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°	33132.0	100.0
0°-180°	33132.0	100.0

Coefficient of Utilization



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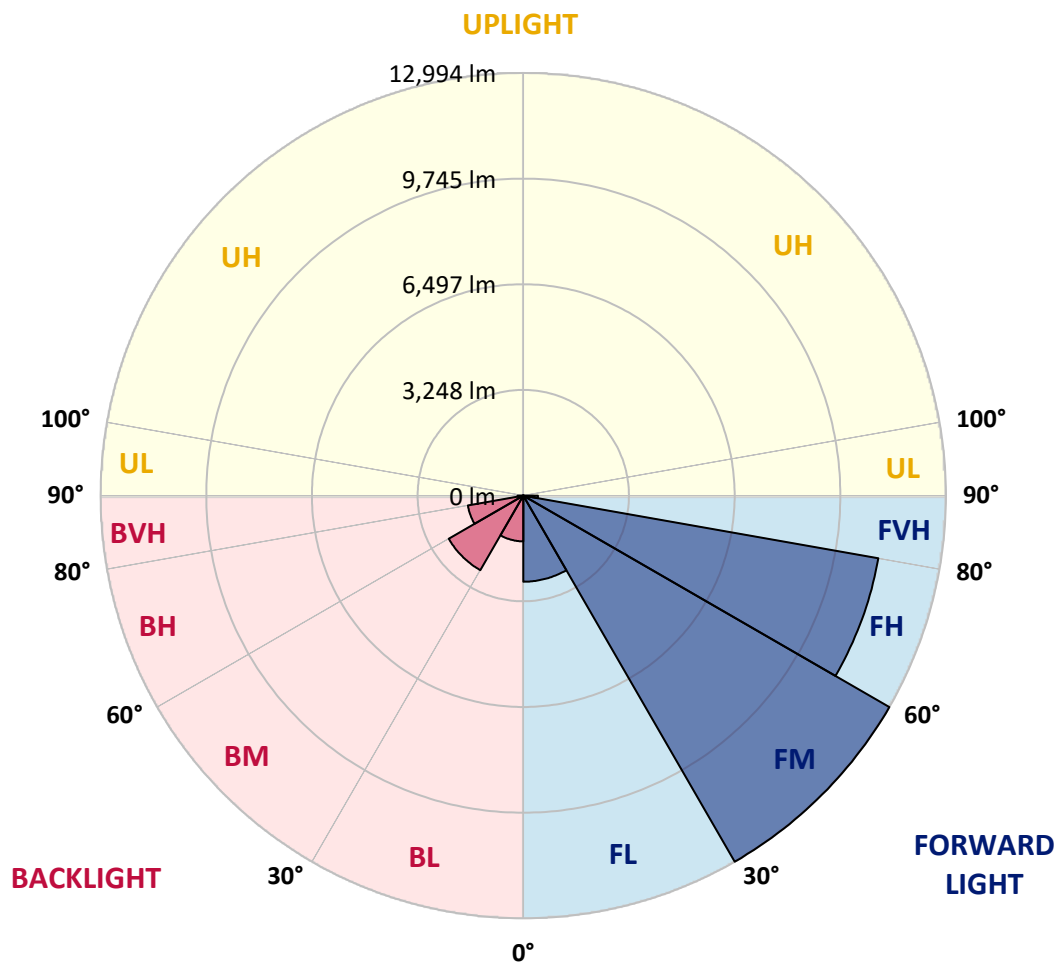
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2647.3	8.0			
FM	(30°-60°)	12993.7	39.2			
FH	(60°-80°)	11082.6	33.4			G4/12000
FVH	(80°-90°)	449.8	1.4			G3/500
BL	(0°-30°)	1405.6	4.2	B3/2500		
BM	(30°-60°)	2646.5	8.0	B3/5000		
BH	(60°-80°)	1731.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	175.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3
2.5°	4514.3	4492.4	4494.2	4463.3	4423.2	4379.5	4317.6	4263.0	4219.3	4193.8	4119.1
5°	5002.3	4980.4	4953.1	4885.8	4856.6	4749.2	4612.6	4488.8	4394.1	4341.3	4191.9
7.5°	5397.5	5392.0	5384.7	5346.5	5271.8	5122.5	5005.9	4791.1	4650.8	4550.7	4295.7
10°	5641.5	5650.6	5656.0	5663.3	5632.4	5554.1	5393.8	5122.5	4944.0	4816.6	4430.5
12.5°	5765.3	5774.4	5805.4	5872.7	5914.6	5905.5	5774.4	5508.5	5262.7	5095.2	4574.4
15°	5841.8	5856.3	5911.0	6000.2	6140.4	6229.7	6165.9	5920.1	5650.6	5452.1	4745.5
17.5°	5925.5	5941.9	6002.0	6129.5	6313.4	6506.4	6575.6	6364.4	6071.2	5834.5	4936.7
20°	5972.9	5994.7	6080.3	6247.9	6462.7	6743.2	6972.6	6861.5	6541.0	6278.8	5157.1
22.5°	6049.4	6067.6	6140.4	6318.9	6575.6	6927.1	7369.6	7345.9	7063.7	6725.0	5399.3
25°	6257.0	6286.1	6322.5	6430.0	6677.6	7114.7	7699.2	7863.1	7569.9	7191.1	5621.4
27.5°	6648.5	6672.2	6670.3	6684.9	6825.1	7276.7	7985.1	8374.8	8072.5	7662.8	5836.3
30°	7094.6	7103.7	7111.0	7078.2	7109.2	7442.4	8247.3	8881.0	8578.7	8147.2	6023.9
32.5°	7637.3	7655.5	7593.6	7509.8	7484.3	7688.3	8464.0	9387.3	9177.9	8638.8	6209.6
35°	8278.3	8325.6	8200.0	8052.5	7948.7	8041.5	8755.4	9904.4	9791.5	9267.1	6455.5
37.5°	9010.3	9068.6	8952.1	8662.5	8515.0	8540.5	9136.0	10543.6	10567.3	9982.7	6821.5
40°	9609.4	9685.9	9689.6	9279.8	9055.8	9085.0	9618.5	11231.9	11503.3	10867.7	7253.1
42.5°	10004.6	10079.3	10157.6	9917.2	9682.3	9848.0	10181.2	11978.6	12555.8	11942.1	7855.8
45°	10438.0	10505.4	10549.1	10439.8	10308.7	10738.5	10860.5	12772.5	13677.6	13142.2	8515.0
47.5°	10940.6	11015.2	11057.1	10953.3	10904.2	11519.7	11592.5	13513.7	14875.8	14307.6	9243.4
50°	11610.7	11667.2	11645.3	11579.8	11568.8	12118.8	12295.4	14207.5	15864.6	15562.3	9999.1
52.5°	12444.7	12512.1	12535.8	12442.9	12401.0	12546.7	12861.7	14839.4	16764.2	16640.3	10805.8
55°	12949.2	13056.6	13417.1	13562.8	13663.0	13100.3	13471.8	15536.8	17570.9	17776.6	11672.6
57.5°	12302.7	12441.1	13247.8	13976.2	14917.7	14484.3	14336.8	16265.2	18377.6	18878.3	12710.6
60°	10725.7	10756.7	11796.5	13138.5	15032.4	16263.4	16141.4	17423.4	19251.6	19989.1	14078.2
62.5°	7440.6	7506.2	8735.4	10876.9	13615.6	16904.4	19211.6	19422.8	20504.5	21651.7	16083.1
65°	3836.9	3751.3	4871.2	6836.0	10265.0	15382.0	21699.1	23099.4	23221.4	24252.1	18905.7
67.5°	2361.8	2400.1	2924.5	3991.6	6069.4	11179.1	21438.7	27591.8	26949.0	27444.3	21526.1
70°	1773.7	1821.0	2181.6	2731.5	3700.3	6391.7	17241.3	28680.8	29578.6	29451.1	22323.7
71°	1542.4	1591.6	1966.7	2485.7	3108.5	4933.1	14526.1	27540.8	29669.6	29647.7	22023.2
72.5°	1314.8	1345.7	1638.9	2105.1	2620.4	3458.1	10913.3	24700.1	28404.0	29130.6	20950.6
75°	1032.5	1056.2	1187.3	1606.1	2063.2	2123.3	5856.3	18517.8	23328.9	24712.8	17441.6
77.5°	841.3	857.7	925.1	1192.8	1591.6	1504.1	3072.0	12053.2	14615.4	16008.4	10274.1
80°	668.3	686.5	726.6	808.5	1192.8	1072.6	1465.9	6107.6	7060.0	7045.5	4100.9
82.5°	519.0	524.4	571.8	593.6	815.8	761.2	794.0	2585.8	2864.4	2959.1	1480.5
85°	327.8	344.2	506.2	455.3	488.0	446.1	391.5	1027.0	1265.6	1247.4	591.8
87.5°	100.2	105.6	171.2	193.0	216.7	194.8	143.9	302.3	369.7	400.6	147.5
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°	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3	4066.3
2.5°	4090.0	4069.9	3998.9	3940.7	3886.0	3825.9	3774.9	3760.4	3747.6	3742.2	3740.3
5°	4128.2	4068.1	3927.9	3813.2	3722.1	3638.4	3585.6	3561.9	3538.2	3538.2	3545.5
7.5°	4182.8	4073.6	3856.9	3685.7	3571.0	3492.7	3454.4	3450.8	3456.3	3461.7	3463.5
10°	4242.9	4069.9	3753.1	3540.0	3438.1	3401.6	3403.5	3434.4	3463.5	3485.4	3489.0
12.5°	4301.2	4048.1	3631.1	3403.5	3337.9	3345.2	3396.2	3465.4	3521.8	3552.8	3554.6
15°	4366.8	4013.5	3483.6	3274.2	3252.3	3308.8	3403.5	3509.1	3594.7	3645.6	3651.1
17.5°	4421.4	3955.2	3328.8	3148.5	3175.8	3279.6	3410.7	3547.3	3651.1	3714.8	3725.8
20°	4483.3	3880.6	3168.5	3028.3	3106.6	3246.8	3396.2	3543.7	3651.1	3713.0	3727.6
22.5°	4532.5	3774.9	3015.6	2930.0	3044.7	3206.8	3347.0	3465.4	3552.8	3585.6	3607.4
25°	4552.5	3642.0	2871.7	2849.9	2995.5	3141.2	3235.9	3303.3	3330.6	3327.0	3336.1
27.5°	4541.6	3489.0	2747.9	2786.1	2933.6	3039.3	3086.6	3081.1	3032.0	2986.4	3008.3
30°	4496.1	3306.9	2644.1	2720.6	2853.5	2911.8	2904.5	2833.5	2740.6	2655.0	2660.5
32.5°	4414.1	3110.3	2547.6	2645.9	2740.6	2766.1	2716.9	2624.1	2491.1	2380.1	2363.7
35°	4344.9	2922.7	2462.0	2560.3	2627.7	2615.0	2567.6	2447.4	2327.2	2228.9	2212.5
37.5°	4334.0	2762.5	2380.1	2463.8	2502.1	2483.8	2425.6	2323.6	2279.9	2205.2	2196.1
40°	4392.3	2649.6	2296.3	2361.8	2380.1	2365.5	2301.7	2243.5	2283.5	2265.3	2265.3
42.5°	4550.7	2589.5	2221.6	2259.9	2274.4	2285.4	2239.8	2190.7	2239.8	2156.1	2128.8
45°	4802.0	2591.3	2154.2	2159.7	2203.4	2241.7	2210.7	2137.9	2112.4	1944.8	1912.1
47.5°	5171.6	2653.2	2099.6	2065.0	2143.3	2207.1	2163.4	2057.7	1944.8	1833.7	1813.7
50°	5603.2	2764.3	2050.4	1966.7	2063.2	2163.4	2130.6	2006.7	1890.2	1822.8	1810.1
52.5°	6082.1	2904.5	1990.4	1857.4	1964.9	2143.3	2137.9	1999.5	1839.2	1793.7	1782.8
55°	6674.0	3042.9	1915.7	1730.0	1877.5	2126.9	2117.8	1939.4	1828.3	1795.5	1791.9
57.5°	7362.3	3243.2	1808.3	1600.7	1777.3	2059.6	2039.5	1902.9	1791.9	1768.2	1766.4
60°	8471.3	3554.6	1655.3	1482.3	1675.3	1941.2	1966.7	1841.0	1733.6	1728.1	1726.3
62.5°	9929.9	3991.6	1496.9	1360.3	1557.0	1788.2	1861.1	1757.3	1671.7	1699.0	1702.6
65°	11944.0	4359.5	1333.0	1256.5	1425.8	1640.7	1760.9	1679.0	1602.5	1655.3	1655.3
67.5°	13256.9	4366.8	1183.7	1149.1	1292.9	1516.9	1655.3	1586.1	1513.3	1602.5	1606.1
70°	12983.8	3825.9	1059.8	1036.2	1163.6	1384.0	1538.7	1484.1	1400.4	1480.5	1451.3
71°	12543.1	3525.5	1010.7	992.4	1112.6	1320.2	1484.1	1438.6	1354.8	1407.6	1391.2
72.5°	11840.2	3061.1	930.5	934.2	1036.2	1240.1	1407.6	1360.3	1276.5	1305.7	1300.2
75°	10008.2	2673.2	795.8	812.2	890.5	1103.5	1254.7	1218.3	1132.7	1132.7	1127.2
77.5°	6257.0	1868.3	661.0	670.1	755.7	945.1	1078.0	1047.1	965.1	937.8	930.5
80°	2334.5	965.1	517.2	528.1	580.9	744.8	892.3	863.2	779.4	748.4	719.3
82.5°	883.2	484.4	380.6	371.5	427.9	568.2	699.3	664.7	599.1	524.4	502.6
85°	333.2	240.4	233.1	225.8	251.3	336.9	433.4	426.1	356.9	304.1	298.6
87.5°	87.4	78.3	91.1	67.4	71.0	63.7	65.6	27.3	12.7	5.5	3.6
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)