

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: P455954

Luminaire Tested: **GALN-SA7A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25100 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
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

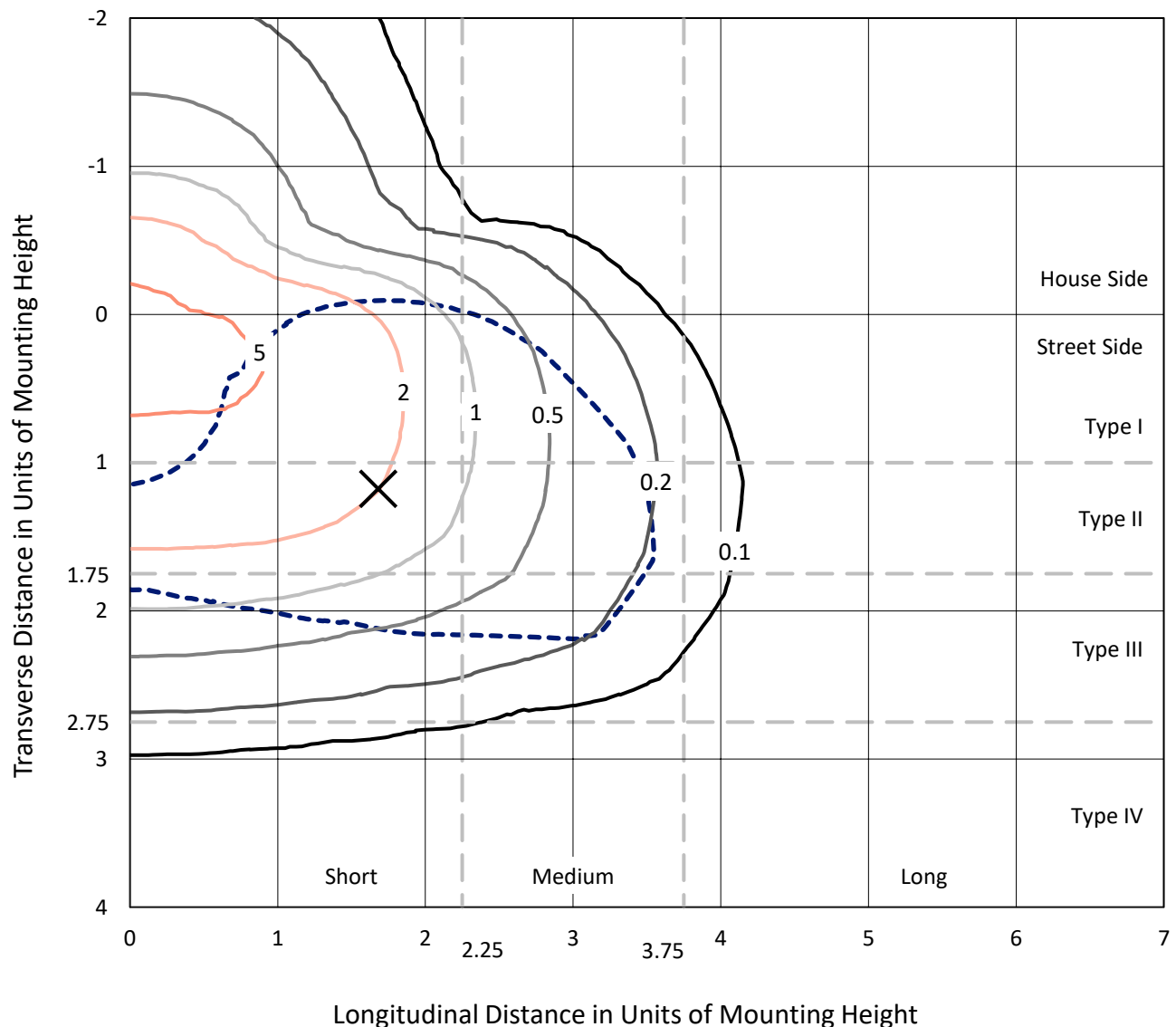


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

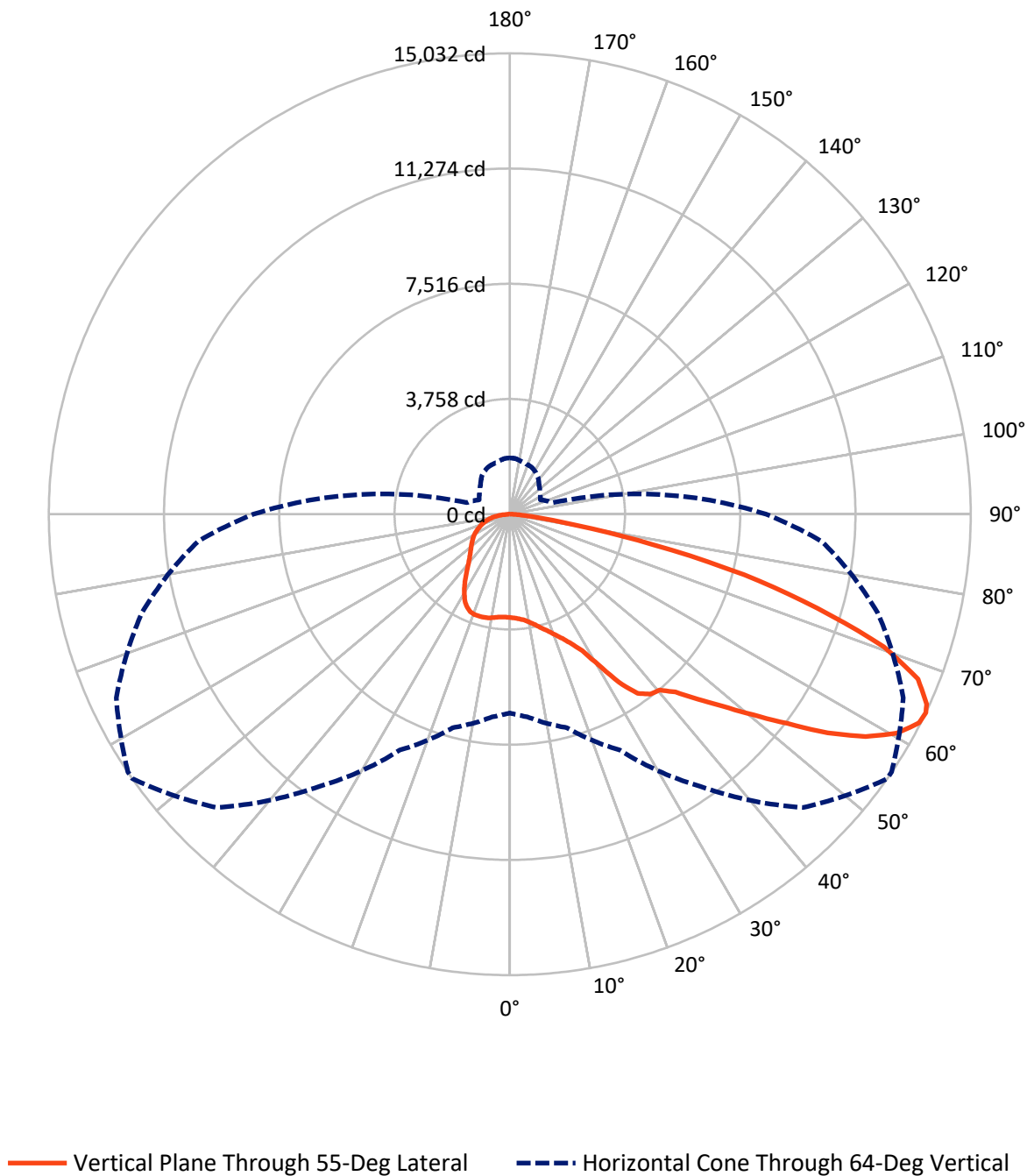


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6097.3	0.0	6097.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19002.7	0.0	19002.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	25100.0	0.0	25100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	1.3
10°-20°	1033.6	4.1
20°-30°	1840.1	7.3
30°-40°	2831.2	11.3
40°-50°	4013.5	16.0
50°-60°	5809.5	23.1
60°-70°	6012.2	24.0
70°-80°	2815.5	11.2
80°-90°	416.8	1.7
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°	25100.0	100.0
0°-180°	25100.0	100.0

Coefficient of Utilization



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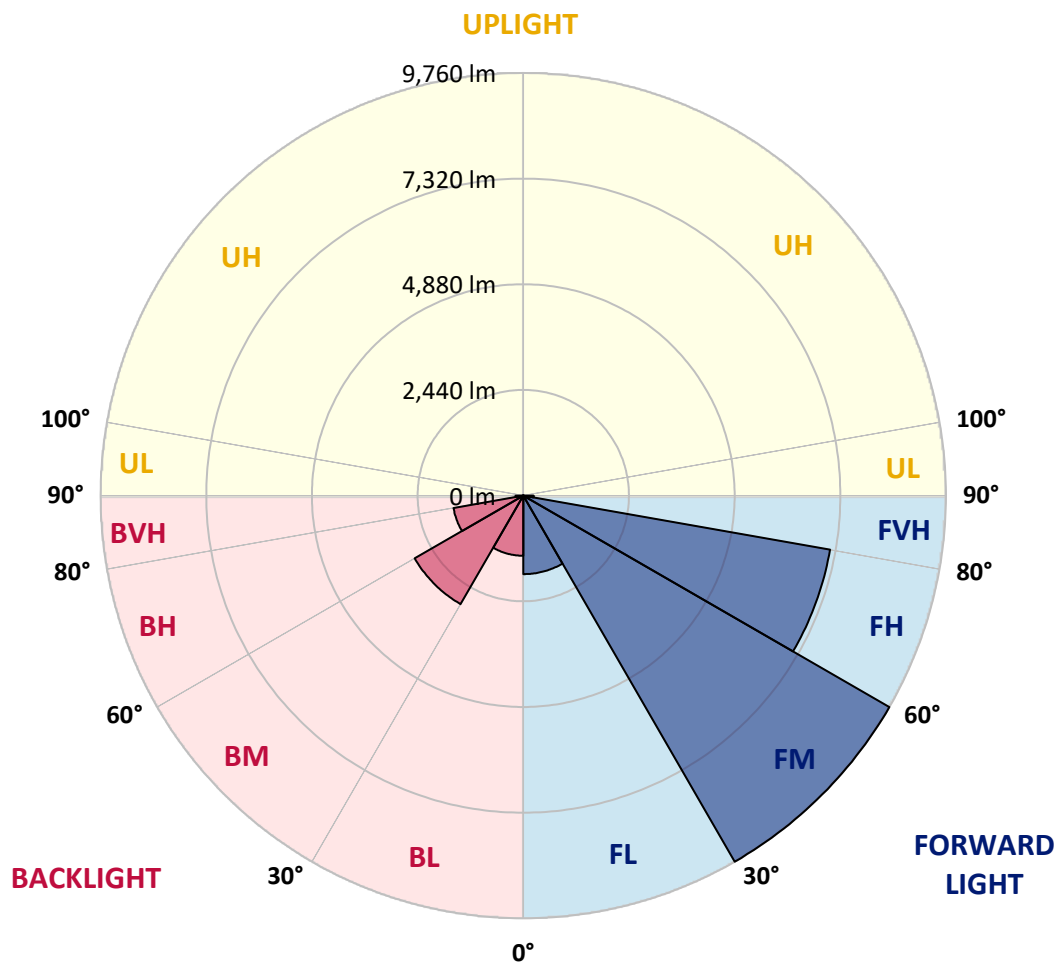
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1812.6	7.2			
FM	(30°-60°)	9759.6	38.9			
FH	(60°-80°)	7191.9	28.7			G3/7500
FVH	(80°-90°)	238.6	1.0			G3/500
BL	(0°-30°)	1388.7	5.5	B3/2500		
BM	(30°-60°)	2894.6	11.5	B3/5000		
BH	(60°-80°)	1635.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	178.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7
2.5°	3405.4	3404.0	3408.2	3404.0	3406.8	3397.0	3392.8	3395.6	3391.4	3384.5	3371.9
5°	3447.4	3446.0	3447.4	3441.8	3444.6	3439.0	3429.2	3432.0	3425.0	3409.6	3391.4
7.5°	3518.8	3513.2	3513.2	3511.8	3506.2	3497.8	3490.8	3488.0	3481.0	3461.4	3433.4
10°	3611.1	3611.1	3612.5	3601.3	3608.3	3592.9	3585.9	3584.5	3560.7	3535.6	3496.4
12.5°	3732.8	3739.8	3735.6	3730.0	3727.2	3721.6	3697.9	3703.4	3676.9	3633.5	3585.9
15°	3883.9	3895.1	3888.1	3885.3	3878.3	3857.4	3847.6	3843.4	3808.4	3745.4	3682.5
17.5°	4084.0	4070.0	4064.4	4057.4	4028.0	4012.7	3995.9	3993.1	3962.3	3888.1	3790.2
20°	4258.9	4278.5	4267.3	4260.3	4230.9	4201.5	4188.9	4184.7	4158.2	4077.0	3920.3
22.5°	4467.4	4471.6	4475.8	4459.0	4445.0	4422.6	4400.2	4393.2	4383.4	4299.5	4107.8
25°	4689.8	4706.6	4692.6	4675.8	4659.0	4657.6	4678.6	4675.8	4671.6	4590.5	4356.8
27.5°	5052.2	5067.6	5071.8	5053.6	4989.2	4994.8	5042.4	5057.8	5122.1	4987.8	4677.2
30°	5256.5	5271.9	5306.8	5375.4	5477.5	5567.1	5681.8	5716.8	5778.3	5525.1	5057.8
32.5°	5382.4	5388.0	5450.9	5578.3	5884.7	6219.1	6531.1	6543.6	6582.8	6227.4	5406.2
35°	5581.1	5585.3	5635.6	5775.5	6135.1	6692.0	7174.6	7190.0	7157.9	6445.7	5568.5
37.5°	5825.9	5837.1	5869.3	5985.4	6414.9	7087.9	7441.9	7430.7	7145.3	6619.2	5855.3
40°	6182.7	6182.7	6144.9	6301.6	6710.1	7314.6	7535.6	7516.0	7440.5	7121.5	6291.8
42.5°	6497.5	6491.9	6581.4	6687.8	7079.5	7664.3	7928.8	7960.9	8085.5	7752.5	6788.5
45°	6907.4	6932.6	6983.0	7176.0	7707.7	8261.8	8603.1	8633.9	8810.2	8495.4	7369.1
47.5°	7321.6	7329.9	7488.0	7745.5	8485.6	9071.8	9351.7	9402.0	9562.9	9364.3	7994.5
50°	7615.4	7695.1	7948.4	8354.1	9287.3	10059.6	10277.9	10338.0	10622.1	10310.1	8723.5
52.5°	7926.0	8004.3	8313.5	8931.9	10207.9	11069.8	11338.4	11379.0	11674.2	11267.0	9469.2
55°	8191.8	8264.6	8615.7	9444.0	10941.1	12100.9	12587.8	12540.2	12681.6	12004.4	10044.2
57.5°	8235.2	8293.9	8736.1	9771.4	11492.3	12985.2	13683.3	13711.3	13547.6	12555.6	10518.5
60°	7899.4	8019.7	8527.6	9736.4	11739.9	13600.8	14500.4	14520.0	14055.5	12838.3	10707.4
62.5°	7304.8	7292.2	7906.4	9174.0	11393.0	13740.7	14981.7	14960.7	14254.2	12702.5	10524.1
64°	6483.5	6634.6	7208.2	8482.8	10833.3	13525.2	15032.1	15020.9	14159.0	12419.9	10212.1
65°	5982.6	5974.2	6540.8	7917.6	10276.5	13200.6	14942.5	14927.1	13960.3	12166.7	9970.1
67.5°	4319.1	4338.6	4898.3	6109.9	8354.1	11931.6	14359.1	14301.7	13176.8	11327.2	9049.5
70°	2616.3	2627.5	3066.9	4053.2	5996.6	9645.5	12943.2	12946.0	11977.8	10073.6	7702.1
72.5°	1378.1	1407.5	1583.8	2301.5	3641.9	6767.5	10500.3	10749.4	10283.5	8597.5	6084.7
75°	766.7	770.9	895.4	1134.7	1858.0	3787.4	7892.4	7963.7	8141.4	6920.0	4499.5
77.5°	584.8	593.2	632.4	733.1	1011.6	1755.9	4776.6	5134.7	5737.8	4878.7	2567.4
80°	474.3	482.7	516.3	576.4	673.0	832.5	2219.0	2412.1	3071.1	2165.8	1001.8
82.5°	369.4	363.8	407.1	446.3	489.7	492.5	910.8	1007.4	1250.8	931.8	433.7
85°	274.2	274.2	309.2	300.8	316.2	288.2	401.5	443.5	500.9	395.9	201.5
87.5°	109.1	120.3	202.9	181.9	141.3	113.3	148.3	156.7	173.5	155.3	83.9
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°	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7	3367.7
2.5°	3373.3	3377.5	3367.7	3360.7	3357.9	3353.7	3349.5	3350.9	3356.5	3362.1	3360.7
5°	3390.0	3391.4	3374.7	3366.3	3360.7	3355.1	3355.1	3359.3	3370.5	3378.9	3378.9
7.5°	3432.0	3432.0	3408.2	3392.8	3384.5	3374.7	3371.9	3373.3	3381.7	3392.8	3394.2
10°	3497.8	3492.2	3461.4	3437.6	3422.2	3398.4	3377.5	3366.3	3370.5	3377.5	3377.5
12.5°	3577.5	3562.1	3523.0	3490.8	3453.0	3408.2	3364.9	3342.5	3341.1	3348.1	3345.3
15°	3662.9	3646.1	3591.5	3532.8	3467.0	3401.2	3349.5	3317.3	3292.1	3285.1	3300.5
17.5°	3762.2	3727.2	3651.7	3570.5	3472.6	3387.2	3306.1	3240.3	3195.6	3183.0	3187.2
20°	3882.5	3836.4	3734.2	3606.9	3468.4	3336.9	3211.0	3122.8	3050.1	3027.7	3030.5
22.5°	4049.0	3969.3	3819.6	3625.1	3433.4	3241.7	3066.9	2952.1	2864.0	2829.0	2850.0
25°	4237.9	4151.2	3900.7	3620.9	3342.5	3089.2	2896.2	2746.5	2666.7	2614.9	2626.1
27.5°	4498.1	4344.2	3987.5	3583.1	3212.4	2903.2	2679.3	2538.0	2465.2	2438.7	2451.2
30°	4831.1	4594.7	4081.2	3481.0	3006.7	2668.1	2461.0	2368.7	2325.3	2291.7	2302.9
32.5°	5071.8	4771.0	4102.2	3308.9	2784.2	2454.0	2312.7	2244.2	2196.6	2164.4	2171.4
35°	5243.9	4920.7	4092.4	3097.6	2552.0	2277.8	2195.2	2139.2	2062.3	1992.3	1979.7
37.5°	5474.7	5108.2	4021.0	2866.8	2322.5	2158.8	2100.1	1996.5	1886.0	1792.3	1788.1
40°	5828.7	5327.8	3868.5	2595.4	2126.7	2070.7	1999.3	1865.0	1746.1	1670.5	1664.9
42.5°	6193.9	5530.7	3661.5	2309.9	1965.8	1978.3	1891.6	1758.7	1685.9	1637.0	1631.4
45°	6640.2	5750.3	3437.6	2062.3	1846.8	1891.6	1797.9	1720.9	1677.5	1645.4	1637.0
47.5°	7122.9	5975.6	3185.8	1839.8	1746.1	1811.8	1758.7	1723.7	1699.9	1677.5	1667.7
50°	7643.3	6227.4	2949.3	1660.7	1655.1	1729.3	1754.5	1741.9	1727.9	1720.9	1712.5
52.5°	8214.2	6484.9	2750.7	1534.8	1575.4	1670.5	1755.9	1765.7	1765.7	1761.5	1755.9
55°	8600.3	6664.0	2549.2	1432.7	1494.3	1623.0	1753.1	1790.9	1804.9	1799.3	1793.7
57.5°	8885.8	6761.9	2295.9	1344.5	1425.7	1576.8	1737.7	1793.7	1807.7	1814.6	1811.8
60°	8944.5	6671.0	1964.4	1252.2	1351.5	1509.6	1681.7	1751.7	1769.9	1813.2	1817.4
62.5°	8680.1	6391.1	1634.2	1161.3	1260.6	1407.5	1606.2	1704.1	1740.5	1807.7	1814.6
64°	8355.5	6077.7	1450.9	1103.9	1201.8	1350.1	1568.4	1691.5	1739.1	1828.6	1834.2
65°	8117.6	5849.7	1336.2	1067.5	1164.1	1312.4	1547.4	1695.7	1751.7	1860.8	1869.2
67.5°	7241.8	5064.8	1105.3	982.2	1074.5	1248.0	1551.6	1730.7	1748.9	1873.4	1872.0
70°	5992.4	4032.2	926.2	903.8	987.8	1196.2	1534.8	1674.7	1676.1	1758.7	1739.1
72.5°	4487.0	2980.1	803.1	822.7	891.2	1073.1	1449.5	1599.2	1575.4	1586.6	1567.0
75°	3082.2	1971.3	691.2	735.9	790.5	948.6	1329.2	1452.3	1414.5	1400.5	1386.5
77.5°	1645.4	1089.9	575.0	650.6	687.0	819.9	1159.9	1278.8	1239.6	1185.0	1166.9
80°	666.0	513.5	463.1	538.7	559.6	660.4	965.4	1039.5	1010.2	915.0	884.2
82.5°	334.4	307.8	363.8	423.9	425.3	471.5	717.7	787.7	721.9	605.8	579.2
85°	174.9	180.5	250.4	298.0	263.0	254.6	430.9	477.1	437.9	380.6	342.8
87.5°	63.0	72.8	131.5	130.1	92.3	49.0	95.1	46.2	25.2	15.4	19.6
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)