

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: P453638

Luminaire Tested: **GALN-SA4C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453638
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-SA4C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 22052 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 213
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

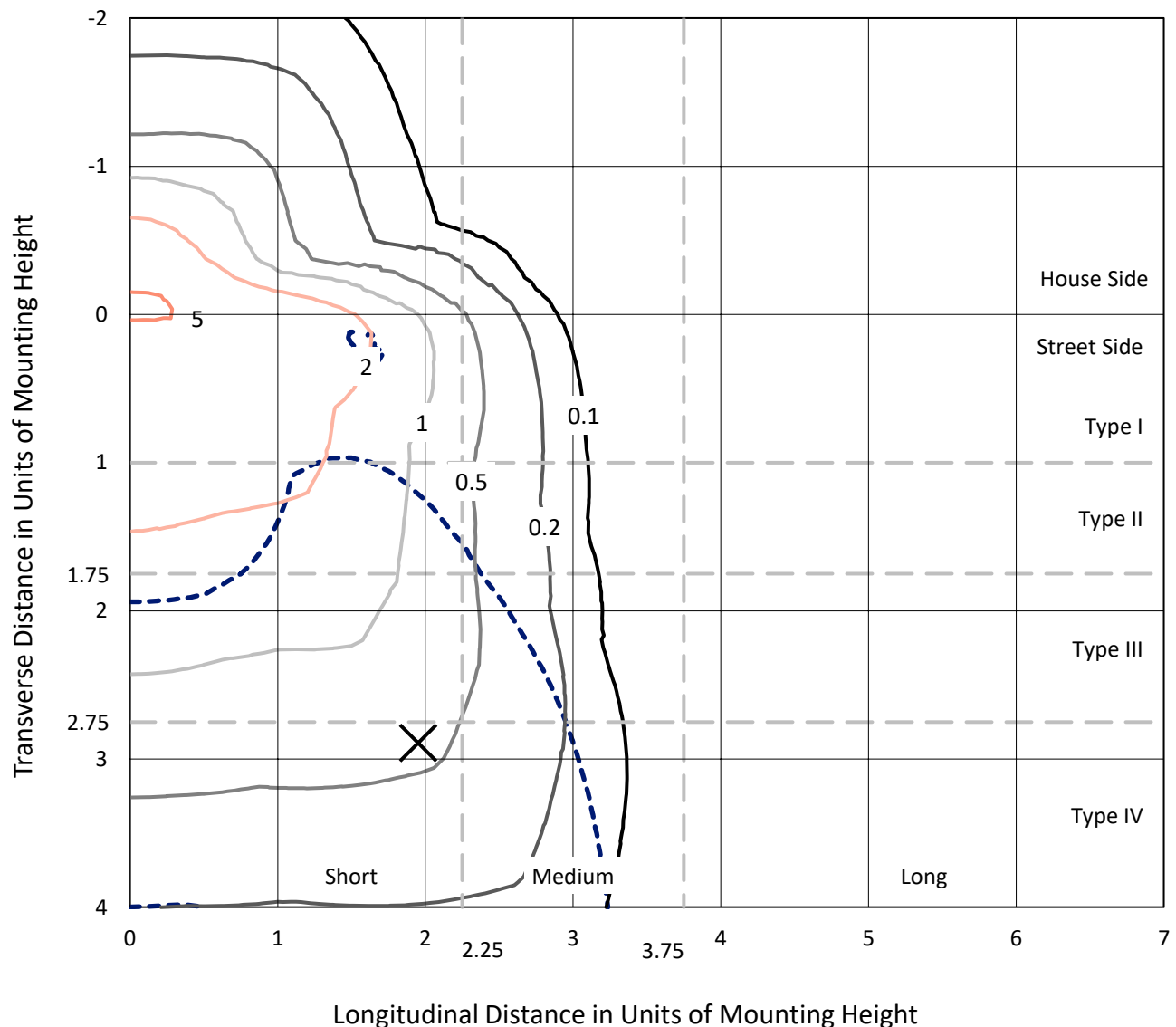


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

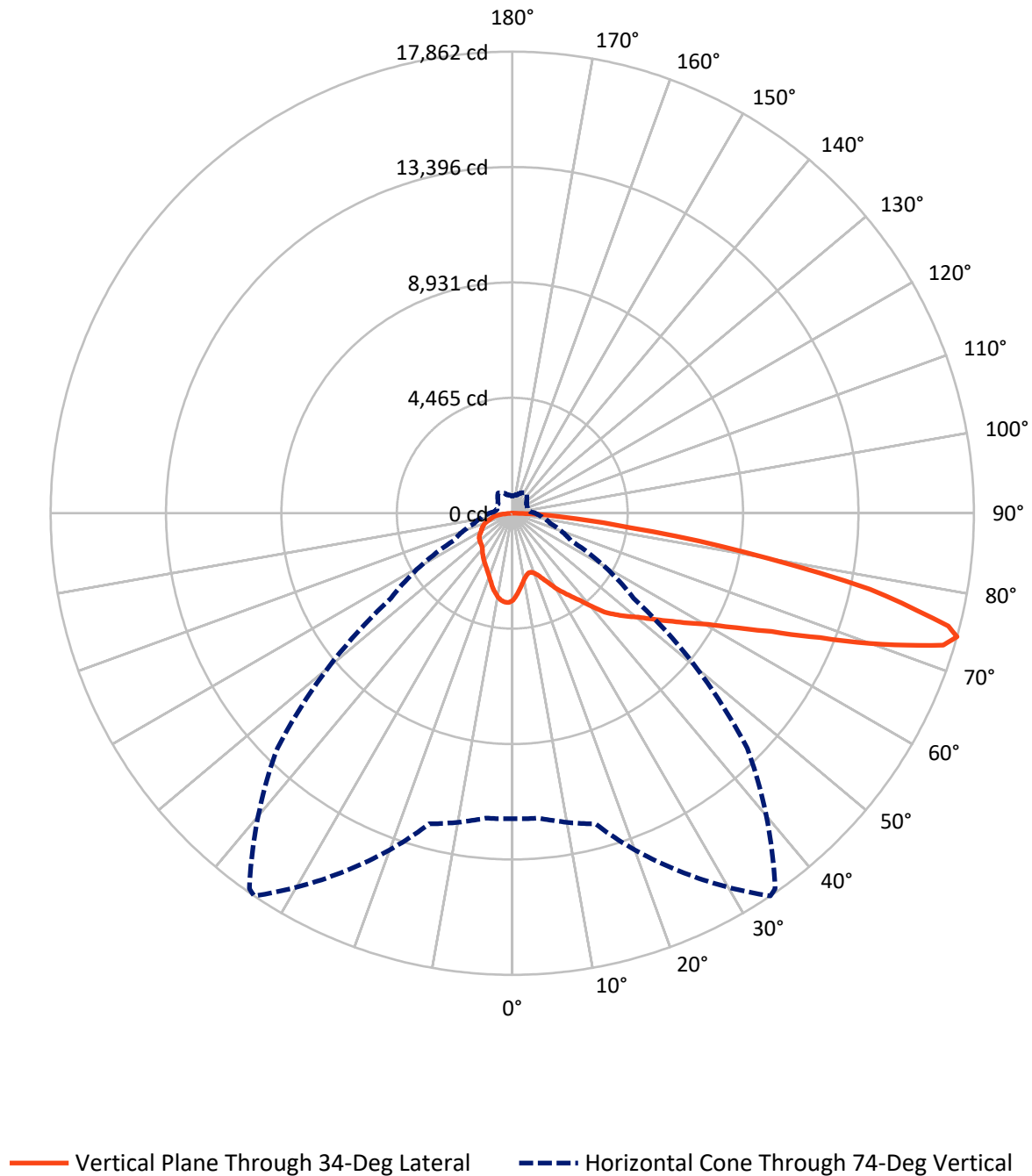


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4692.8	0.0	4692.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17359.2	0.0	17359.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	22052.0	0.0	22052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	1.4
10°-20°	838.2	3.8
20°-30°	1382.0	6.3
30°-40°	2070.1	9.4
40°-50°	3009.4	13.6
50°-60°	4203.4	19.1
60°-70°	5262.4	23.9
70°-80°	4351.6	19.7
80°-90°	628.8	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°	22052.0	100.0
0°-180°	22052.0	100.0

Coefficient of Utilization



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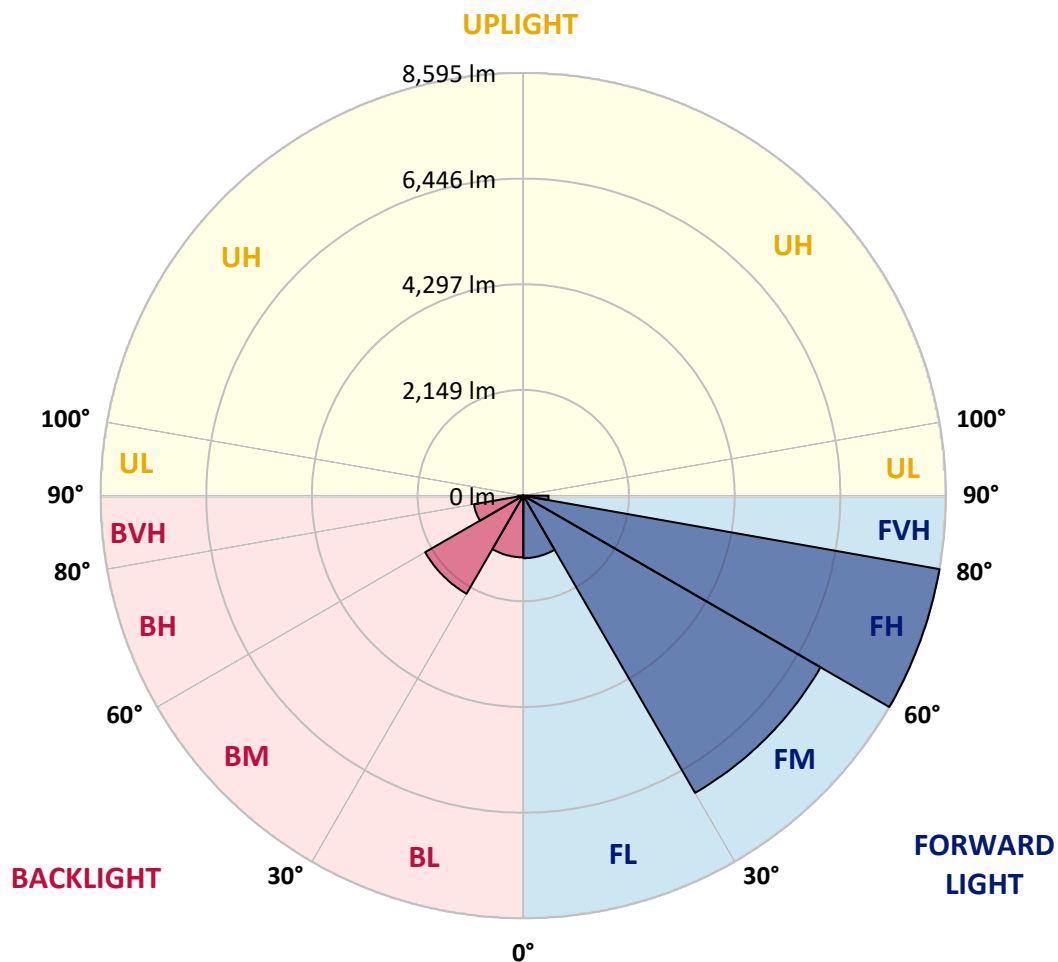
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.2	5.8			
FM	(30°-60°)	6978.2	31.6			
FH	(60°-80°)	8594.7	39.0			G4/12000
FVH	(80°-90°)	515.1	2.3			G4/750
BL	(0°-30°)	1255.3	5.7	B3/2500		
BM	(30°-60°)	2304.7	10.5	B2/2500		
BH	(60°-80°)	1019.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	113.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9
2.5°	3111.6	3127.5	3136.0	3166.6	3173.9	3183.7	3209.3	3243.5	3287.5	3326.6	3360.8
5°	2852.6	2877.0	2891.7	2918.6	2971.1	2976.0	3044.4	3122.6	3211.8	3294.8	3363.2
7.5°	2607.0	2633.9	2646.1	2695.0	2764.6	2775.6	2875.8	2999.2	3148.2	3274.1	3379.1
10°	2422.6	2436.0	2462.9	2499.5	2582.6	2589.9	2720.6	2885.6	3078.6	3264.3	3406.0
12.5°	2322.4	2329.7	2335.8	2374.9	2456.8	2467.8	2604.6	2791.5	3023.6	3271.6	3450.0
15°	2337.0	2339.5	2312.6	2319.9	2385.9	2401.8	2537.4	2729.2	2989.4	3289.9	3515.9
17.5°	2460.4	2451.9	2385.9	2351.7	2398.1	2405.5	2524.0	2704.8	2973.5	3324.1	3584.4
20°	2654.7	2642.5	2528.8	2453.1	2480.0	2486.1	2567.9	2723.1	2989.4	3380.3	3690.6
22.5°	2896.6	2891.7	2719.4	2627.8	2626.6	2626.6	2669.3	2789.1	3037.1	3457.3	3801.8
25°	3235.0	3209.3	2984.5	2866.0	2833.0	2830.6	2825.7	2897.8	3098.1	3539.2	3933.8
27.5°	3581.9	3537.9	3337.6	3155.6	3084.7	3076.1	3044.4	3051.7	3176.3	3632.0	4084.0
30°	3893.4	3865.3	3677.2	3475.6	3391.3	3371.8	3283.8	3243.5	3307.0	3799.4	4323.5
32.5°	4131.7	4114.6	3968.0	3784.7	3660.1	3656.4	3528.2	3495.2	3511.1	4002.2	4597.1
35°	4324.7	4330.8	4256.3	4097.5	3954.5	3933.8	3848.2	3806.7	3760.3	4295.4	4941.6
37.5°	4588.6	4602.0	4597.1	4460.3	4285.6	4290.5	4270.9	4202.5	4079.1	4622.8	5324.0
40°	4879.3	4889.1	4887.9	4835.3	4743.7	4748.6	4741.3	4663.1	4478.6	5039.4	5749.1
42.5°	5281.3	5234.8	5113.9	5166.4	5220.2	5243.4	5293.5	5218.9	4966.1	5484.0	6148.6
45°	5730.8	5642.9	5369.2	5393.6	5592.8	5636.8	5912.9	5810.2	5495.0	5994.7	6619.0
47.5°	6014.2	5927.5	5696.6	5691.7	5955.6	5998.4	6487.0	6449.2	5976.4	6545.7	7193.2
50°	6267.1	6254.9	5994.7	6057.0	6314.8	6378.3	7112.5	7077.1	6456.5	7195.6	7818.6
52.5°	6642.2	6543.2	6335.5	6463.8	6804.7	6887.7	7733.1	7629.3	6897.5	7769.8	8425.8
55°	6810.8	6787.6	6775.3	6886.5	7354.4	7414.3	8336.6	8098.4	7273.8	8256.0	8887.6
57.5°	7261.6	7218.8	7339.8	7415.5	8001.9	8093.5	8967.0	8588.3	7603.6	8642.0	9112.4
60°	7845.5	7822.3	7933.5	8070.3	8725.1	8864.4	9685.3	9006.1	7868.7	8836.3	8989.0
62.5°	8717.8	8715.3	8694.6	8987.8	9750.1	9878.4	10510.0	9412.9	7910.3	8690.9	8351.3
65°	9968.8	9924.8	9744.0	10064.1	11025.5	11175.8	11368.8	9640.1	7659.8	7944.5	7031.9
67.5°	11277.2	11274.7	11128.1	11543.5	12856.8	13011.9	12442.6	9590.1	6964.7	6435.7	4994.2
70°	12362.0	12309.5	12496.4	13603.2	15196.3	15375.9	13382.1	9000.0	5547.6	4250.2	2967.4
72.5°	12622.2	12624.7	13013.2	15191.4	17442.9	17471.0	13720.5	7294.6	3712.6	2344.4	1484.3
74°	11820.8	11841.6	12443.9	15270.8	17861.9	17734.9	12855.6	5733.3	2510.5	1530.7	1070.2
75°	10789.7	10659.0	11530.1	14741.8	17427.0	17290.2	11842.8	4600.8	1915.6	1222.9	937.0
77.5°	5768.7	5901.9	7245.7	11001.1	14157.9	14000.3	8030.0	2206.3	1034.7	851.5	674.4
80°	2053.6	2265.0	3183.7	5756.5	9077.0	9125.8	3832.4	1011.5	728.1	627.9	476.4
82.5°	838.1	861.3	1367.0	2554.5	4609.3	4653.3	1565.0	601.1	520.4	432.5	284.6
85°	327.4	337.2	604.7	1148.4	1966.9	2095.2	541.2	317.6	320.1	248.0	145.4
87.5°	109.9	124.6	248.0	382.4	668.2	654.8	157.6	94.1	114.8	107.5	45.2
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°	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9	3366.9
2.5°	3377.9	3401.1	3417.0	3434.1	3450.0	3454.9	3451.2	3462.2	3463.4	3464.6	3465.9
5°	3397.4	3429.2	3459.8	3476.9	3484.2	3478.1	3457.3	3446.3	3436.5	3429.2	3431.7
7.5°	3424.3	3469.5	3497.6	3505.0	3485.4	3457.3	3406.0	3365.7	3340.0	3322.9	3321.7
10°	3465.9	3509.8	3533.1	3512.3	3458.5	3390.1	3309.5	3233.7	3176.3	3159.2	3158.0
12.5°	3518.4	3568.5	3567.3	3506.2	3412.1	3289.9	3159.2	3071.3	2993.1	2954.0	2969.9
15°	3586.8	3624.7	3589.2	3479.3	3330.3	3162.9	3001.6	2881.9	2793.9	2752.4	2754.9
17.5°	3666.2	3699.2	3605.1	3431.7	3215.4	3000.4	2813.5	2699.9	2630.2	2599.7	2597.3
20°	3765.2	3774.9	3605.1	3348.6	3067.6	2811.0	2632.7	2553.3	2514.2	2498.3	2503.2
22.5°	3871.5	3851.9	3585.6	3231.3	2873.4	2613.1	2493.4	2458.0	2438.4	2436.0	2438.4
25°	3991.2	3936.2	3545.3	3072.5	2670.6	2442.1	2372.5	2378.6	2382.2	2382.2	2390.8
27.5°	4137.8	4027.8	3478.1	2872.1	2433.6	2283.3	2263.7	2306.5	2326.0	2329.7	2335.8
30°	4330.8	4128.0	3366.9	2621.7	2232.0	2140.4	2174.6	2232.0	2254.0	2267.4	2265.0
32.5°	4560.5	4238.0	3216.6	2371.2	2069.5	2040.2	2081.7	2140.4	2164.8	2172.1	2162.3
35°	4830.5	4362.6	3018.7	2136.7	1927.8	1944.9	1993.8	2012.1	2034.1	2034.1	2039.0
37.5°	5121.2	4462.7	2776.8	1921.7	1817.8	1880.1	1915.6	1898.5	1888.7	1876.5	1882.6
40°	5416.9	4537.3	2462.9	1709.1	1707.9	1812.9	1822.7	1773.9	1734.8	1722.5	1716.4
42.5°	5674.6	4583.7	2179.4	1544.2	1604.0	1747.0	1754.3	1676.1	1613.8	1577.2	1565.0
45°	5978.8	4637.4	1902.1	1407.4	1507.5	1694.4	1712.8	1607.7	1516.1	1439.1	1419.6
47.5°	6395.4	4759.6	1683.5	1301.1	1437.9	1661.5	1687.1	1551.5	1430.6	1330.4	1314.5
50°	6865.7	4927.0	1513.6	1229.0	1384.1	1632.1	1663.9	1494.1	1351.2	1240.0	1227.8
52.5°	7297.0	5017.4	1367.0	1164.2	1331.6	1578.4	1633.4	1452.6	1273.0	1149.6	1138.6
55°	7532.8	4870.8	1222.9	1100.7	1259.5	1508.8	1590.6	1395.1	1197.2	1101.9	1086.1
57.5°	7564.5	4567.8	1092.2	1032.3	1183.8	1423.2	1511.2	1325.5	1148.4	1069.0	1055.5
60°	7319.0	4115.8	990.8	976.1	1106.8	1326.7	1422.0	1264.4	1098.3	1032.3	1018.9
62.5°	6708.2	3624.7	919.9	924.8	1028.6	1225.3	1356.0	1205.8	1050.6	992.0	979.8
65°	5657.5	2991.9	851.5	872.3	959.0	1145.9	1296.2	1156.9	1003.0	961.4	950.5
67.5°	3930.1	2159.9	795.3	817.3	893.0	1065.3	1226.6	1104.4	949.2	927.2	910.1
70°	2175.8	1329.2	729.3	755.0	824.6	974.9	1148.4	1025.0	871.0	861.3	836.8
72.5°	1143.5	846.6	654.8	682.9	731.8	858.8	1028.6	938.2	794.1	752.5	720.8
74°	893.0	693.9	604.7	634.0	667.0	790.4	957.8	875.9	739.1	690.2	665.8
75°	778.2	618.2	562.0	599.8	629.2	744.0	902.8	832.0	708.6	662.1	640.2
77.5°	549.7	463.0	459.3	504.5	520.4	652.4	813.6	757.4	631.6	582.7	562.0
80°	386.0	347.0	364.1	392.2	414.1	576.6	755.0	654.8	518.0	460.6	453.2
82.5°	251.7	227.2	260.2	285.9	293.2	425.1	609.6	497.2	377.5	306.6	284.6
85°	116.1	113.6	149.0	145.4	144.2	207.7	361.6	290.8	217.5	162.5	152.7
87.5°	29.3	28.1	36.6	30.5	36.6	31.8	33.0	8.6	1.2	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)