

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: P454566

Luminaire Tested: **GALN-SA5C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454566
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-SA5C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 27916 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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

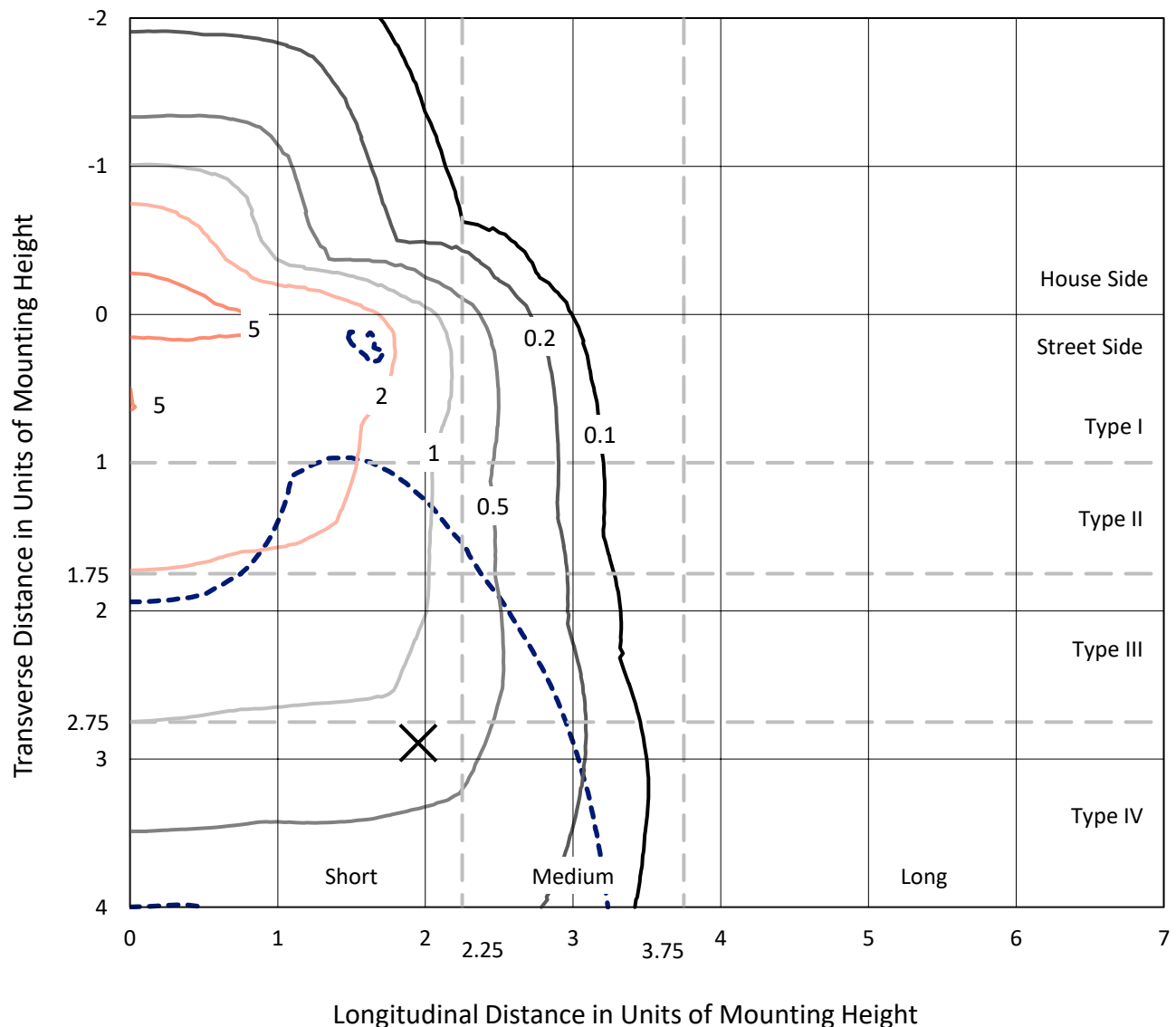


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

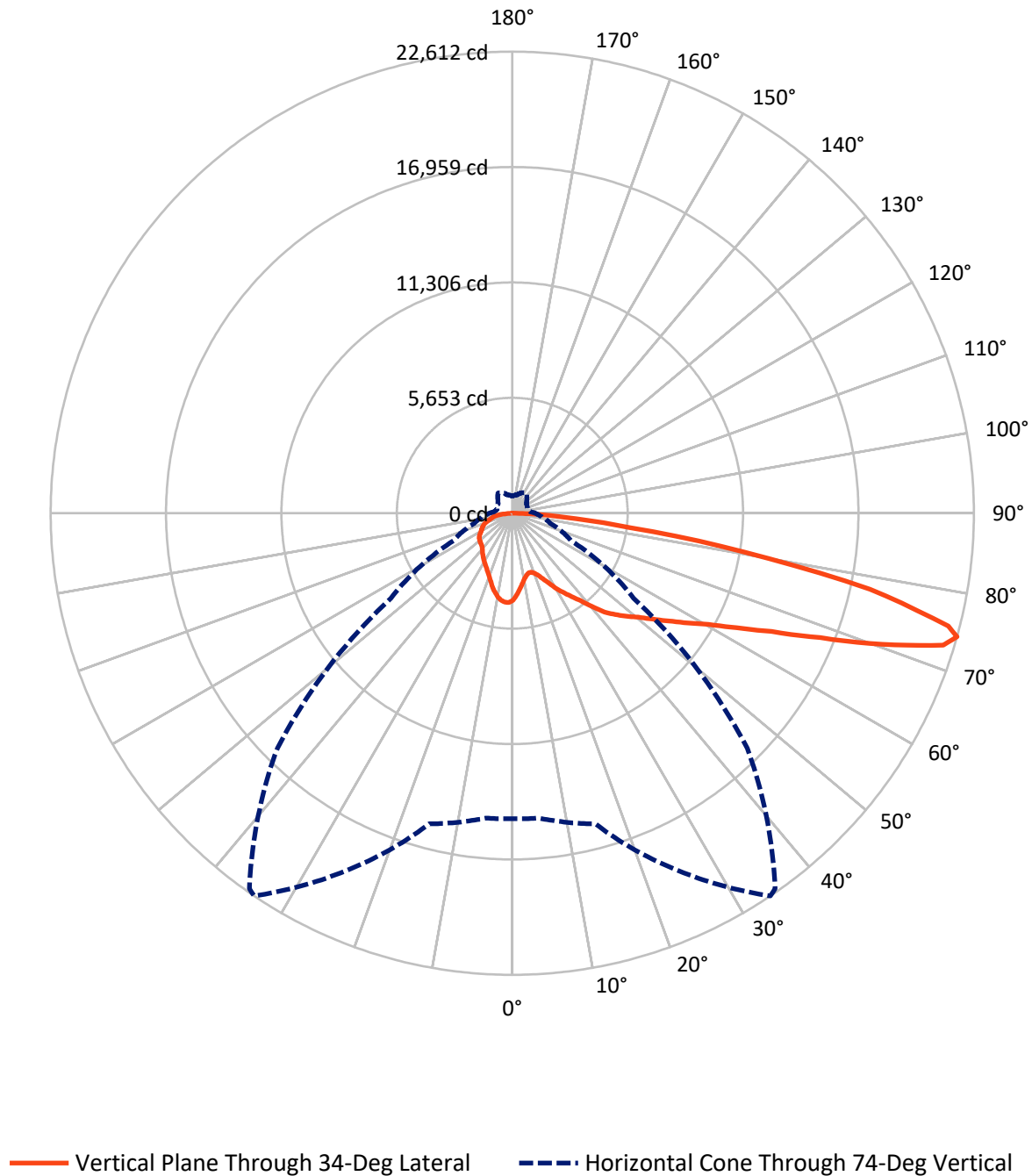


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5940.7	0.0	5940.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21975.3	0.0	21975.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	27916.0	0.0	27916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	1.4
10°-20°	1061.1	3.8
20°-30°	1749.5	6.3
30°-40°	2620.6	9.4
40°-50°	3809.6	13.6
50°-60°	5321.1	19.1
60°-70°	6661.7	23.9
70°-80°	5508.7	19.7
80°-90°	796.0	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°	27916.0	100.0
0°-180°	27916.0	100.0

Coefficient of Utilization



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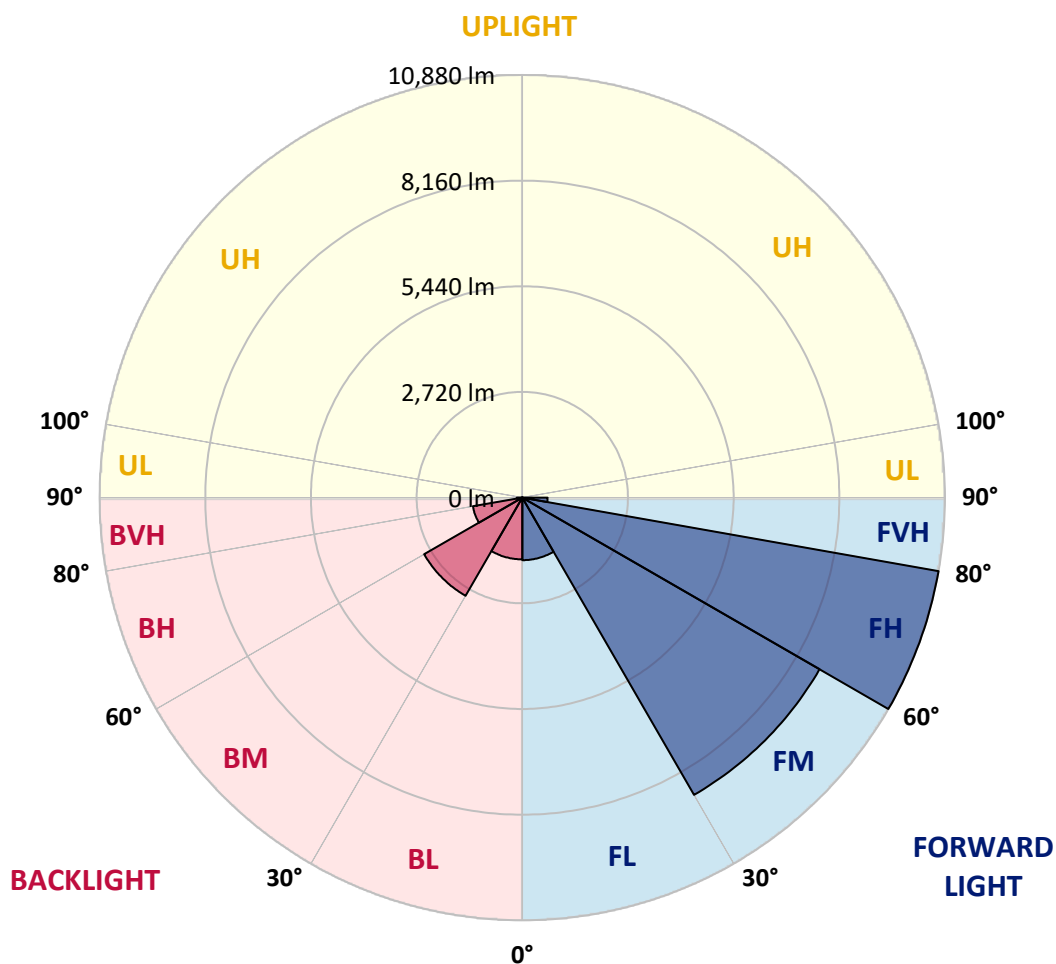
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1609.2	5.8			
FM	(30°-60°)	8833.8	31.6			
FH	(60°-80°)	10880.2	39.0			G4/12000
FVH	(80°-90°)	652.1	2.3			G4/750
BL	(0°-30°)	1589.0	5.7	B3/2500		
BM	(30°-60°)	2917.5	10.5	B3/5000		
BH	(60°-80°)	1290.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	143.9	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°	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2
2.5°	3939.0	3959.1	3969.9	4008.6	4017.9	4030.2	4062.7	4106.0	4161.7	4211.2	4254.5
5°	3611.1	3642.1	3660.6	3694.6	3761.1	3767.3	3853.9	3952.9	4065.8	4171.0	4257.6
7.5°	3300.3	3334.3	3349.8	3411.6	3499.8	3513.7	3640.5	3796.7	3985.4	4144.7	4277.7
10°	3066.8	3083.8	3117.8	3164.2	3269.4	3278.6	3444.1	3652.9	3897.2	4132.3	4311.7
12.5°	2939.9	2949.2	2957.0	3006.4	3110.1	3124.0	3297.2	3533.8	3827.6	4141.6	4367.4
15°	2958.5	2961.6	2927.6	2936.8	3020.4	3040.5	3212.1	3454.9	3784.3	4164.8	4450.9
17.5°	3114.7	3103.9	3020.4	2977.1	3035.8	3045.1	3195.1	3424.0	3764.2	4208.1	4537.5
20°	3360.6	3345.1	3201.3	3105.4	3139.4	3147.2	3250.8	3447.2	3784.3	4279.2	4672.1
22.5°	3666.8	3660.6	3442.6	3326.6	3325.0	3325.0	3379.2	3530.7	3844.7	4376.7	4812.8
25°	4095.2	4062.7	3778.2	3628.1	3586.4	3583.3	3577.1	3668.4	3922.0	4480.3	4979.8
27.5°	4534.4	4478.7	4225.1	3994.7	3905.0	3894.1	3853.9	3863.2	4021.0	4597.8	5170.0
30°	4928.8	4893.2	4655.0	4399.9	4293.2	4268.4	4157.1	4106.0	4186.4	4809.7	5473.1
32.5°	5230.3	5208.7	5023.1	4791.1	4633.4	4628.7	4466.4	4424.6	4444.7	5066.4	5819.6
35°	5474.7	5482.4	5388.1	5187.0	5006.1	4979.8	4871.6	4819.0	4760.2	5437.6	6255.7
37.5°	5808.7	5825.8	5819.6	5646.4	5425.2	5431.4	5406.6	5320.0	5163.8	5852.0	6739.8
40°	6176.8	6189.2	6187.6	6121.1	6005.2	6011.3	6002.1	5903.1	5669.6	6379.4	7277.9
42.5°	6685.6	6626.9	6473.8	6540.3	6608.3	6637.7	6701.1	6606.8	6286.6	6942.3	7783.7
45°	7254.7	7143.4	6797.0	6827.9	7080.0	7135.7	7485.2	7355.3	6956.3	7588.8	8379.1
47.5°	7613.5	7503.7	7211.4	7205.3	7539.3	7593.4	8212.0	8164.1	7565.6	8286.3	9105.9
50°	7933.7	7918.2	7588.8	7667.7	7994.0	8074.4	9003.9	8959.0	8173.4	9109.0	9897.8
52.5°	8408.5	8283.2	8020.3	8182.7	8614.1	8719.3	9789.5	9658.0	8731.7	9835.9	10666.4
55°	8621.9	8592.5	8577.0	8717.8	9310.1	9385.9	10553.5	10251.9	9208.0	10451.4	11251.0
57.5°	9192.5	9138.4	9291.5	9387.4	10129.7	10245.7	11351.5	10872.1	9625.6	10940.1	11535.5
60°	9931.8	9902.4	10043.1	10216.3	11045.3	11221.6	12260.8	11401.0	9961.2	11186.0	11379.3
62.5°	11036.0	11032.9	11006.6	11377.8	12342.8	12505.2	13304.7	11916.0	10013.7	11002.0	10572.0
65°	12619.6	12564.0	12335.1	12740.3	13957.4	14147.6	14392.0	12203.6	9696.7	10057.0	8901.8
67.5°	14276.0	14272.9	14087.3	14613.1	16275.6	16472.0	15751.4	12140.2	8816.7	8147.1	6322.2
70°	15649.3	15582.8	15819.4	17220.5	19237.2	19464.6	16940.6	11393.2	7022.8	5380.4	3756.5
72.5°	15978.7	15981.8	16473.6	19231.0	22081.3	22116.8	17369.0	9234.3	4699.9	2967.8	1879.0
74°	14964.2	14990.5	15752.9	19331.6	22611.7	22450.9	16274.1	7257.8	3178.1	1937.8	1354.8
75°	13658.9	13493.4	14596.1	18661.9	22061.2	21888.0	14992.0	5824.2	2425.0	1548.1	1186.2
77.5°	7302.7	7471.3	9172.4	13926.5	17922.7	17723.2	10165.3	2793.0	1309.9	1077.9	853.7
80°	2599.7	2867.3	4030.2	7287.2	11490.7	11552.5	4851.4	1280.5	921.7	794.9	603.1
82.5°	1060.9	1090.3	1730.6	3233.8	5835.0	5890.7	1981.1	760.9	658.8	547.5	360.3
85°	414.5	426.8	765.5	1453.7	2489.9	2652.3	685.1	402.1	405.2	313.9	184.0
87.5°	139.2	157.7	313.9	484.1	845.9	828.9	199.5	119.1	145.4	136.1	57.2
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°	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2	4262.2
2.5°	4276.1	4305.5	4325.6	4347.3	4367.4	4373.6	4368.9	4382.8	4384.4	4385.9	4387.5
5°	4300.9	4341.1	4379.8	4401.4	4410.7	4403.0	4376.7	4362.7	4350.4	4341.1	4344.2
7.5°	4334.9	4392.1	4427.7	4437.0	4412.2	4376.7	4311.7	4260.7	4228.2	4206.5	4205.0
10°	4387.5	4443.2	4472.5	4446.3	4378.2	4291.6	4189.5	4093.6	4021.0	3999.3	3997.8
12.5°	4454.0	4517.4	4515.9	4438.5	4319.4	4164.8	3999.3	3888.0	3789.0	3739.5	3759.6
15°	4540.6	4588.5	4543.7	4404.5	4215.8	4004.0	3799.8	3648.3	3536.9	3484.3	3487.4
17.5°	4641.1	4682.9	4563.8	4344.2	4070.5	3798.3	3561.6	3417.8	3329.7	3291.0	3287.9
20°	4766.4	4778.8	4563.8	4239.0	3883.3	3558.6	3332.8	3232.2	3182.7	3162.6	3168.8
22.5°	4900.9	4876.2	4539.0	4090.6	3637.4	3308.0	3156.5	3111.6	3086.9	3083.8	3086.9
25°	5052.5	4982.9	4488.0	3889.5	3380.7	3091.5	3003.4	3011.1	3015.7	3015.7	3026.5
27.5°	5238.1	5098.9	4403.0	3635.9	3080.7	2890.5	2865.7	2919.8	2944.6	2949.2	2957.0
30°	5482.4	5225.7	4262.2	3318.8	2825.5	2709.5	2752.8	2825.5	2853.3	2870.3	2867.3
32.5°	5773.2	5364.9	4072.0	3001.8	2619.8	2582.7	2635.3	2709.5	2740.4	2749.7	2737.3
35°	6115.0	5522.6	3821.5	2704.9	2440.4	2462.1	2523.9	2547.1	2575.0	2575.0	2581.1
37.5°	6483.0	5649.5	3515.2	2432.7	2301.2	2380.1	2425.0	2403.3	2390.9	2375.5	2383.2
40°	6857.3	5743.8	3117.8	2163.6	2162.0	2295.0	2307.4	2245.6	2196.1	2180.6	2172.9
42.5°	7183.6	5802.6	2759.0	1954.8	2030.6	2211.5	2220.8	2121.8	2043.0	1996.6	1981.1
45°	7568.7	5870.6	2407.9	1781.6	1908.4	2145.0	2168.2	2035.2	1919.2	1821.8	1797.1
47.5°	8096.1	6025.3	2131.1	1647.0	1820.3	2103.3	2135.8	1964.1	1811.0	1684.2	1664.1
50°	8691.5	6237.1	1916.1	1555.8	1752.2	2066.2	2106.4	1891.4	1710.5	1569.7	1554.3
52.5°	9237.4	6351.6	1730.6	1473.8	1685.7	1998.1	2067.7	1838.8	1611.5	1455.3	1441.4
55°	9535.9	6166.0	1548.1	1393.4	1594.5	1910.0	2013.6	1766.1	1515.6	1395.0	1374.9
57.5°	9576.1	5782.5	1382.6	1306.8	1498.6	1801.7	1913.1	1678.0	1453.7	1353.2	1336.2
60°	9265.2	5210.2	1254.2	1235.7	1401.2	1679.5	1800.2	1600.7	1390.3	1306.8	1289.8
62.5°	8492.0	4588.5	1164.5	1170.7	1302.2	1551.2	1716.6	1526.4	1330.0	1255.8	1240.3
65°	7162.0	3787.4	1077.9	1104.2	1214.0	1450.6	1640.9	1464.6	1269.7	1217.1	1203.2
67.5°	4975.2	2734.3	1006.8	1034.6	1130.5	1348.6	1552.7	1398.1	1201.6	1173.8	1152.2
70°	2754.4	1682.6	923.3	955.8	1043.9	1234.1	1453.7	1297.5	1102.7	1090.3	1059.4
72.5°	1447.5	1071.7	828.9	864.5	926.4	1087.2	1302.2	1187.7	1005.2	952.7	912.4
74°	1130.5	878.4	765.5	802.6	844.4	1000.6	1212.5	1108.9	935.6	873.8	842.9
75°	985.1	782.5	711.4	759.3	796.5	941.8	1142.9	1053.2	897.0	838.2	810.4
77.5°	695.9	586.1	581.5	638.7	658.8	825.8	1030.0	958.8	799.6	737.7	711.4
80°	488.7	439.2	460.9	496.4	524.3	730.0	955.8	828.9	655.7	583.0	573.8
82.5°	318.6	287.7	329.4	361.9	371.2	538.2	771.7	629.4	477.9	388.2	360.3
85°	146.9	143.8	188.7	184.0	182.5	262.9	457.8	368.1	275.3	205.7	193.3
87.5°	37.1	35.6	46.4	38.7	46.4	40.2	41.8	10.8	1.5	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)