

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: P453634

Luminaire Tested: **GALN-SA4C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453634
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-SA4C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21916 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

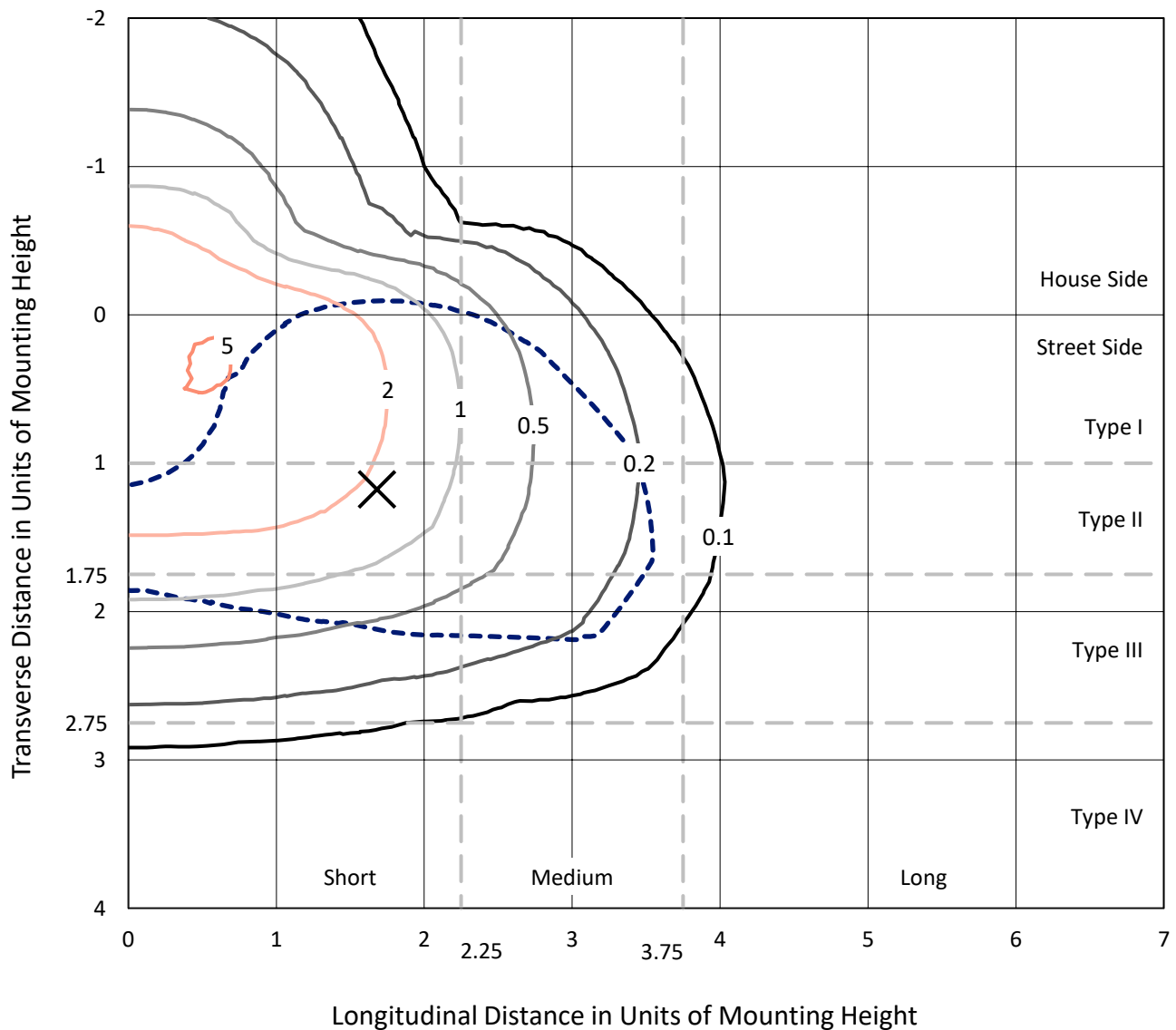


REPORT NUMBER: P453634

CATALOG NUMBER: GALN-SA4C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

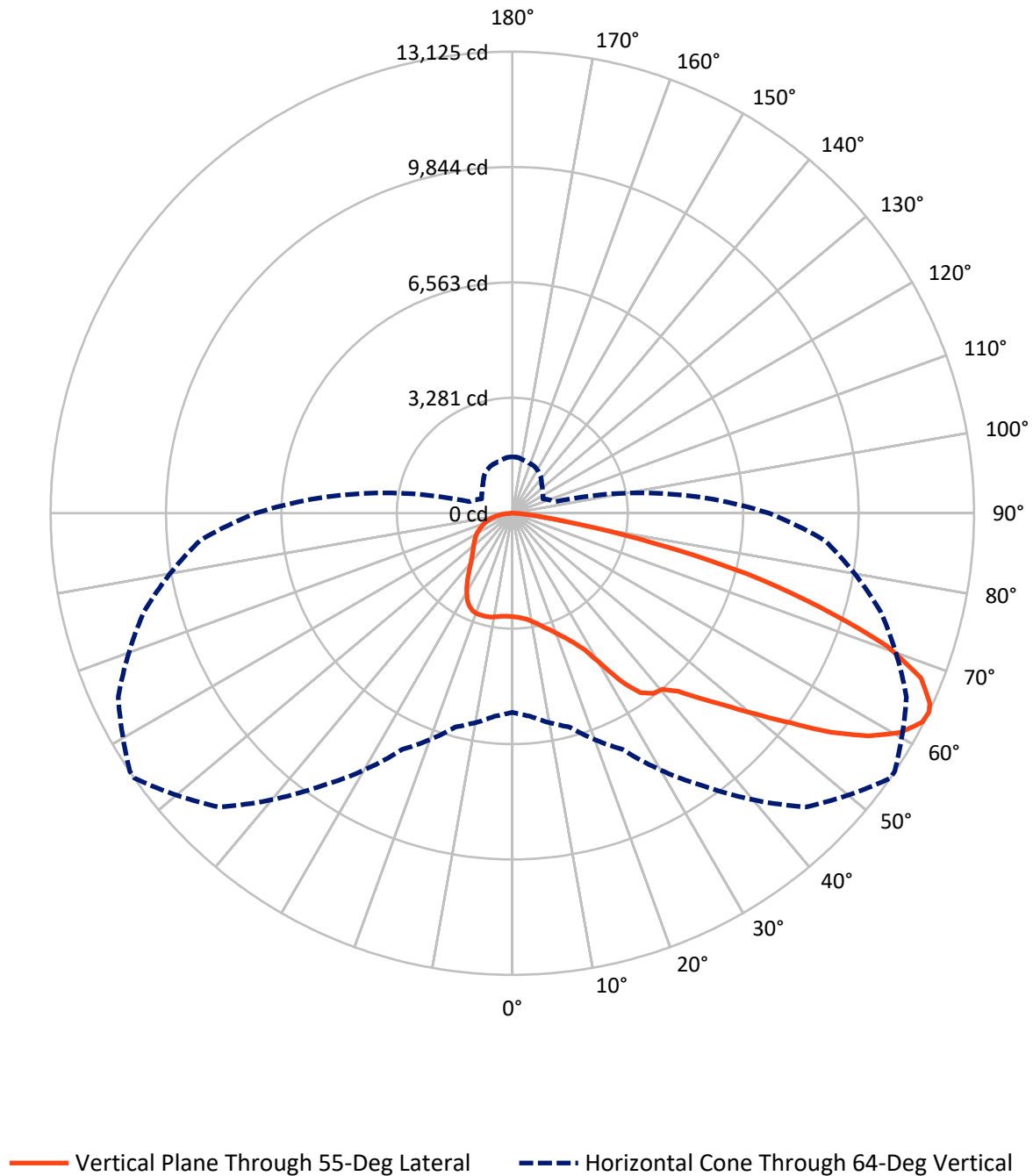


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

REPORT NUMBER: P453634

CATALOG NUMBER: GALN-SA4C-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P453634

CATALOG NUMBER: GALN-SA4C-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5323.8	0.0	5323.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16592.2	0.0	16592.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	21916.0	0.0	21916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.0	1.3
10°-20°	902.5	4.1
20°-30°	1606.7	7.3
30°-40°	2472.1	11.3
40°-50°	3504.4	16.0
50°-60°	5072.5	23.1
60°-70°	5249.5	24.0
70°-80°	2458.4	11.2
80°-90°	363.9	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°	21916.0	100.0
0°-180°	21916.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453634

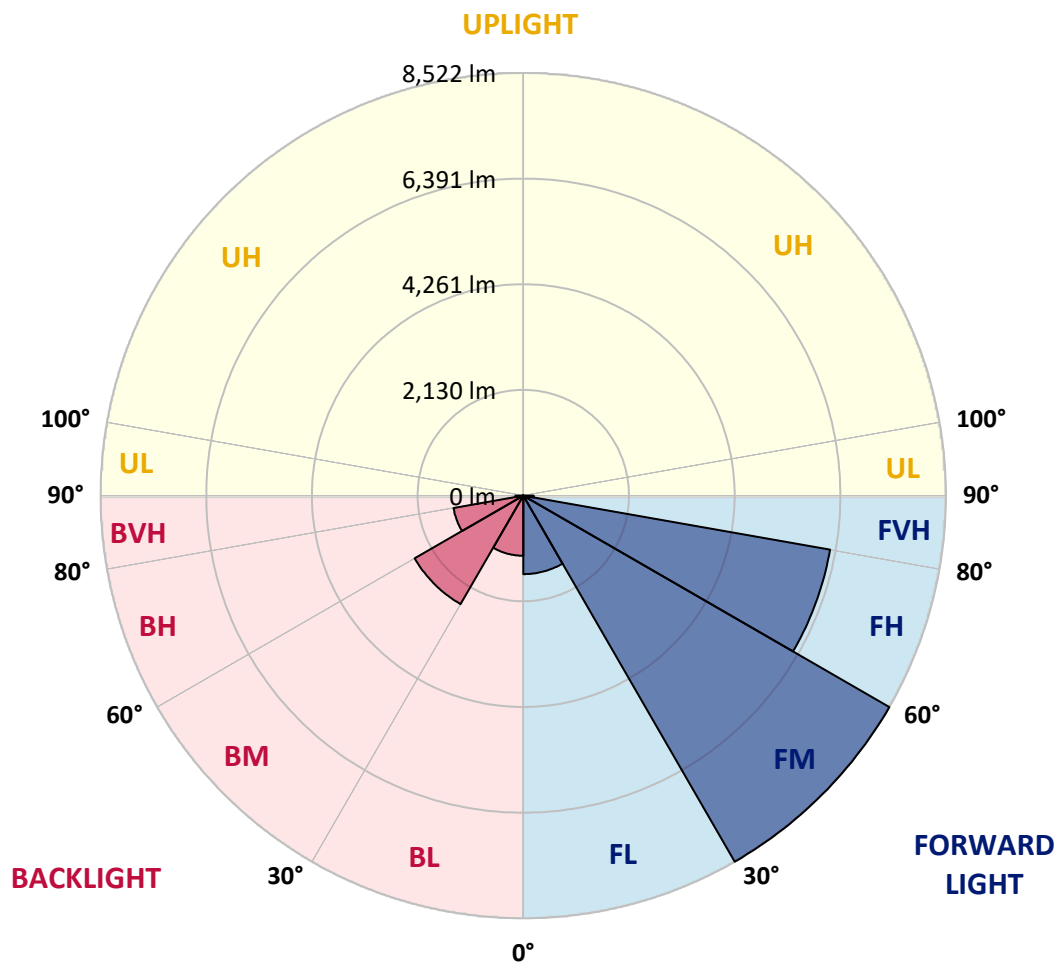
CATALOG NUMBER: GALN-SA4C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1582.7	7.2			
FM	(30°-60°)	8521.5	38.9			
FH	(60°-80°)	6279.6	28.7			G3/7500
FVH	(80°-90°)	208.4	1.0			G2/225
BL	(0°-30°)	1212.6	5.5	B3/2500		
BM	(30°-60°)	2527.4	11.5	B3/5000		
BH	(60°-80°)	1428.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	155.6	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





REPORT NUMBER: P453634

CATALOG NUMBER: GALN-SA4C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2973.4	2972.2	2975.9	2972.2	2974.7	2966.1	2962.5	2964.9	2961.2	2955.1	2944.1
5°	3010.1	3008.9	3010.1	3005.2	3007.7	3002.8	2994.2	2996.7	2990.6	2977.1	2961.2
7.5°	3072.4	3067.5	3067.5	3066.3	3061.4	3054.1	3048.0	3045.5	3039.4	3022.3	2997.9
10°	3153.0	3153.0	3154.3	3144.5	3150.6	3137.1	3131.0	3129.8	3109.1	3087.1	3052.9
12.5°	3259.3	3265.4	3261.8	3256.9	3254.4	3249.5	3228.8	3233.7	3210.4	3172.6	3131.0
15°	3391.2	3401.0	3394.9	3392.5	3386.4	3368.0	3359.5	3355.8	3325.3	3270.3	3215.3
17.5°	3565.9	3553.7	3548.8	3542.7	3517.1	3503.6	3489.0	3486.5	3459.7	3394.9	3309.4
20°	3718.6	3735.7	3726.0	3719.9	3694.2	3668.6	3657.6	3653.9	3630.7	3559.8	3423.0
22.5°	3900.7	3904.3	3908.0	3893.3	3881.1	3861.6	3842.0	3835.9	3827.4	3754.1	3586.7
25°	4094.9	4109.6	4097.4	4082.7	4068.0	4066.8	4085.1	4082.7	4079.0	4008.2	3804.2
27.5°	4411.3	4424.7	4428.4	4412.5	4356.3	4361.2	4402.8	4416.2	4472.4	4355.1	4083.9
30°	4589.7	4603.1	4633.6	4693.5	4782.7	4860.9	4961.0	4991.6	5045.3	4824.2	4416.2
32.5°	4699.6	4704.5	4759.5	4870.6	5138.2	5430.1	5702.6	5713.6	5747.8	5437.5	4720.4
35°	4873.1	4876.8	4920.7	5042.9	5356.9	5843.1	6264.5	6278.0	6249.9	5628.1	4862.1
37.5°	5086.9	5096.6	5124.7	5226.1	5601.2	6188.8	6497.9	6488.1	6238.9	5779.5	5112.5
40°	5398.4	5398.4	5365.4	5502.2	5858.9	6386.7	6579.7	6562.6	6496.6	6218.1	5493.7
42.5°	5673.3	5668.4	5746.6	5839.4	6181.5	6692.1	6923.0	6951.1	7059.8	6769.1	5927.4
45°	6031.2	6053.2	6097.2	6265.7	6730.0	7213.7	7511.8	7538.7	7692.6	7417.7	6434.3
47.5°	6392.8	6400.1	6538.2	6762.9	7409.2	7921.1	8165.4	8209.4	8349.8	8176.4	6980.4
50°	6649.3	6719.0	6940.1	7294.4	8109.2	8783.5	8974.1	9026.6	9274.6	9002.2	7616.9
52.5°	6920.5	6989.0	7258.9	7798.9	8913.0	9665.5	9900.1	9935.5	10193.3	9837.8	8268.0
55°	7152.6	7216.2	7522.8	8246.0	9553.2	10565.9	10991.0	10949.5	11072.9	10481.6	8770.1
57.5°	7190.5	7241.8	7627.9	8531.9	10034.5	11338.0	11947.6	11972.0	11829.1	10962.9	9184.2
60°	6897.3	7002.4	7445.8	8501.3	10250.7	11875.5	12661.0	12678.1	12272.5	11209.7	9349.1
62.5°	6378.1	6367.1	6903.4	8010.2	9947.7	11997.6	13081.2	13062.9	12446.0	11091.2	9189.1
64°	5661.0	5793.0	6293.8	7406.7	9459.1	11809.5	13125.2	13115.4	12362.9	10844.4	8916.7
65°	5223.7	5216.4	5711.1	6913.2	8972.9	11526.1	13047.0	13033.6	12189.4	10623.3	8705.3
67.5°	3771.2	3788.3	4276.9	5334.9	7294.4	10418.1	12537.6	12487.5	11505.3	9890.3	7901.5
70°	2284.4	2294.2	2677.8	3539.1	5235.9	8421.9	11301.3	11303.8	10458.4	8795.7	6725.1
72.5°	1203.3	1229.0	1382.9	2009.6	3179.9	5909.0	9168.3	9385.8	8979.0	7506.9	5312.9
75°	669.5	673.1	781.8	990.7	1622.3	3307.0	6891.2	6953.5	7108.7	6042.2	3928.8
77.5°	510.6	518.0	552.2	640.1	883.2	1533.1	4170.6	4483.4	5009.9	4259.8	2241.7
80°	414.1	421.5	450.8	503.3	587.6	726.9	1937.5	2106.1	2681.5	1891.1	874.7
82.5°	322.5	317.6	355.5	389.7	427.6	430.0	795.3	879.6	1092.1	813.6	378.7
85°	239.4	239.4	270.0	262.7	276.1	251.7	350.6	387.3	437.3	345.7	175.9
87.5°	95.3	105.1	177.1	158.8	123.4	99.0	129.5	136.8	151.5	135.6	73.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453634

CATALOG NUMBER: GALN-SA4C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2945.4	2949.0	2940.5	2934.4	2931.9	2928.2	2924.6	2925.8	2930.7	2935.6	2934.4
5°	2960.0	2961.2	2946.6	2939.2	2934.4	2929.5	2929.5	2933.1	2942.9	2950.2	2950.2
7.5°	2996.7	2996.7	2975.9	2962.5	2955.1	2946.6	2944.1	2945.4	2952.7	2962.5	2963.7
10°	3054.1	3049.2	3022.3	3001.5	2988.1	2967.3	2949.0	2939.2	2942.9	2949.0	2949.0
12.5°	3123.7	3110.3	3076.1	3048.0	3015.0	2975.9	2938.0	2918.5	2917.3	2923.4	2920.9
15°	3198.2	3183.6	3135.9	3084.6	3027.2	2969.8	2924.6	2896.5	2874.5	2868.4	2881.8
17.5°	3285.0	3254.4	3188.5	3117.6	3032.1	2957.6	2886.7	2829.3	2790.2	2779.2	2782.9
20°	3390.0	3349.7	3260.5	3149.4	3028.4	2913.6	2803.6	2726.7	2663.2	2643.6	2646.1
22.5°	3535.4	3465.8	3335.1	3165.2	2997.9	2830.5	2677.8	2577.6	2500.7	2470.1	2488.5
25°	3700.3	3624.6	3405.9	3161.6	2918.5	2697.4	2528.8	2398.1	2328.4	2283.2	2293.0
27.5°	3927.5	3793.2	3481.6	3128.6	2804.9	2534.9	2339.4	2216.0	2152.5	2129.3	2140.3
30°	4218.3	4011.8	3563.5	3039.4	2625.3	2329.7	2148.8	2068.2	2030.4	2001.0	2010.8
32.5°	4428.4	4165.8	3581.8	2889.2	2431.0	2142.7	2019.4	1959.5	1918.0	1889.9	1896.0
35°	4578.7	4296.5	3573.3	2704.7	2228.3	1988.8	1916.7	1867.9	1800.7	1739.6	1728.6
37.5°	4780.2	4460.2	3511.0	2503.1	2027.9	1885.0	1833.7	1743.3	1646.8	1564.9	1561.2
40°	5089.3	4652.0	3377.8	2266.1	1856.9	1808.0	1745.7	1628.4	1524.6	1458.6	1453.7
42.5°	5408.2	4829.1	3197.0	2016.9	1716.4	1727.4	1651.6	1535.6	1472.1	1429.3	1424.4
45°	5797.9	5020.9	3001.5	1800.7	1612.6	1651.6	1569.8	1502.6	1464.7	1436.6	1429.3
47.5°	6219.3	5217.6	2781.7	1606.4	1524.6	1582.0	1535.6	1505.0	1484.3	1464.7	1456.2
50°	6673.8	5437.5	2575.2	1450.1	1445.2	1509.9	1531.9	1520.9	1508.7	1502.6	1495.3
52.5°	7172.2	5662.3	2401.7	1340.1	1375.6	1458.6	1533.1	1541.7	1541.7	1538.0	1533.1
55°	7509.4	5818.6	2225.8	1251.0	1304.7	1417.1	1530.7	1563.7	1575.9	1571.0	1566.1
57.5°	7758.6	5904.1	2004.7	1174.0	1244.8	1376.8	1517.3	1566.1	1578.3	1584.5	1582.0
60°	7809.9	5824.7	1715.2	1093.4	1180.1	1318.1	1468.4	1529.5	1545.4	1583.2	1586.9
62.5°	7579.0	5580.4	1426.9	1014.0	1100.7	1229.0	1402.4	1487.9	1519.7	1578.3	1584.5
64°	7295.6	5306.8	1266.8	963.9	1049.4	1178.9	1369.4	1477.0	1518.5	1596.7	1601.6
65°	7087.9	5107.6	1166.7	932.1	1016.4	1145.9	1351.1	1480.6	1529.5	1624.8	1632.1
67.5°	6323.2	4422.3	965.1	857.6	938.2	1089.7	1354.8	1511.2	1527.0	1635.8	1634.5
70°	5232.2	3520.7	808.7	789.2	862.5	1044.5	1340.1	1462.3	1463.5	1535.6	1518.5
72.5°	3917.8	2602.1	701.2	718.3	778.2	937.0	1265.6	1396.3	1375.6	1385.3	1368.2
75°	2691.3	1721.3	603.5	642.6	690.2	828.3	1160.5	1268.1	1235.1	1222.9	1210.6
77.5°	1436.6	951.7	502.1	568.1	599.8	715.9	1012.7	1116.6	1082.4	1034.7	1018.8
80°	581.5	448.3	404.4	470.3	488.7	576.6	842.9	907.7	882.0	798.9	772.1
82.5°	292.0	268.8	317.6	370.2	371.4	411.7	626.7	687.8	630.4	529.0	505.8
85°	152.7	157.6	218.7	260.2	229.7	222.3	376.3	416.6	382.4	332.3	299.3
87.5°	55.0	63.5	114.8	113.6	80.6	42.8	83.1	40.3	22.0	13.4	17.1
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)