

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: P455950

Luminaire Tested: **GALN-SA7A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455950
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-SA7A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 25456 lumens
Efficiency: N/A
Efficacy: 118.4 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): 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

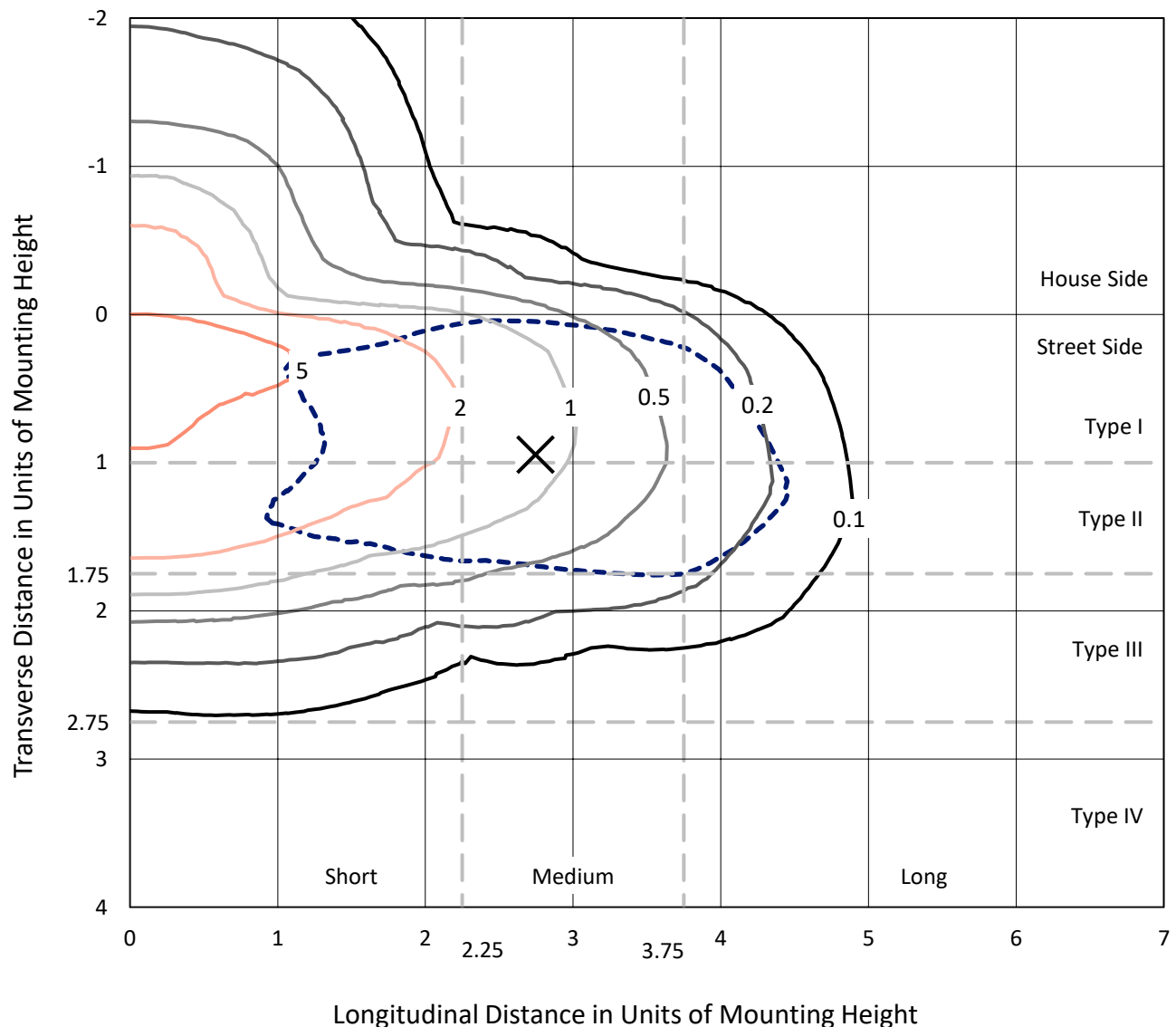


REPORT NUMBER: P455950

CATALOG NUMBER: GALN-SA7A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

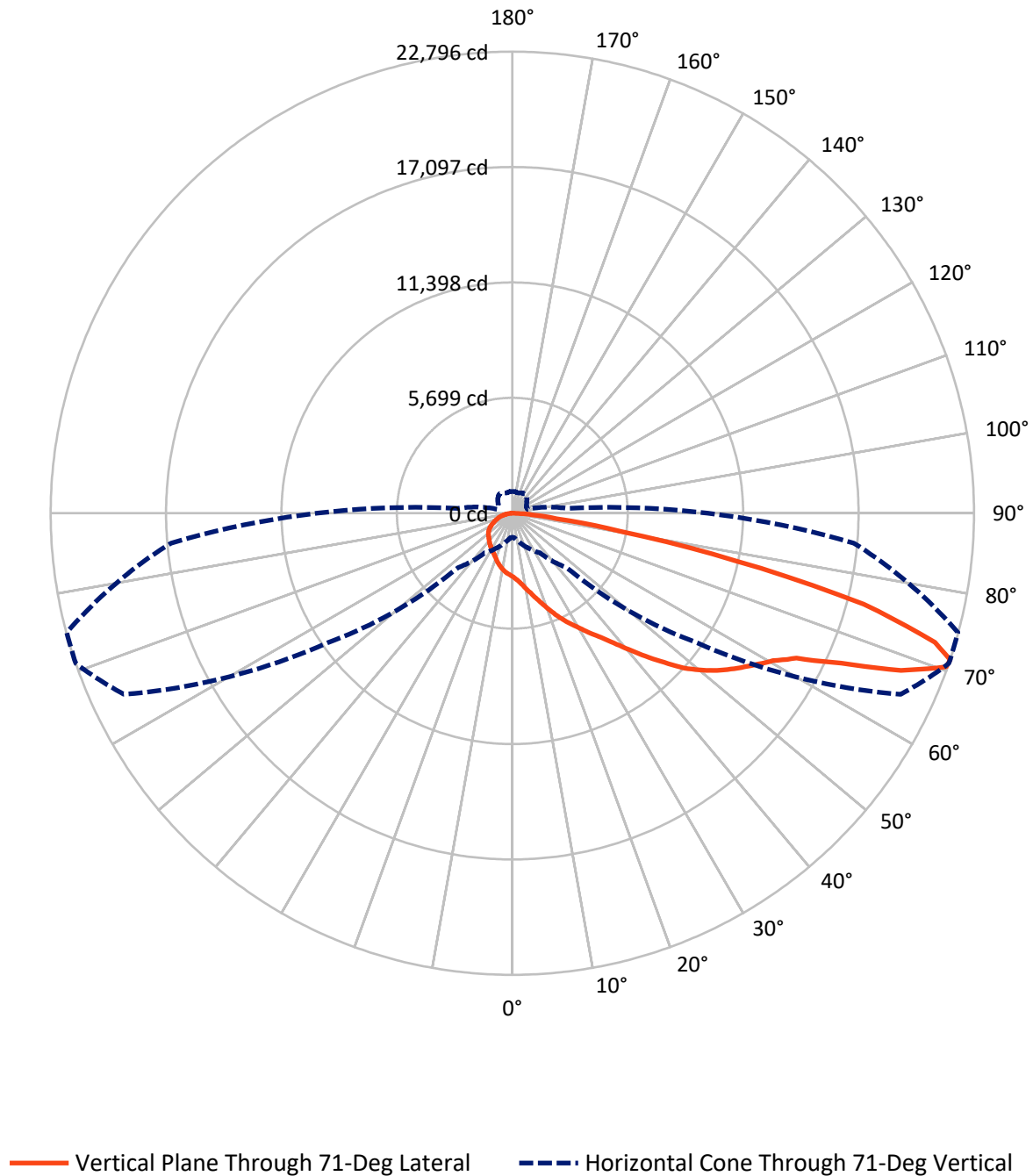


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P455950

CATALOG NUMBER: GALN-SA7A-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P455950

CATALOG NUMBER: GALN-SA7A-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4578.2	0.0	4578.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	20877.8	0.0	20877.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	25456.0	0.0	25456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.2
10°-20°	1019.2	4.0
20°-30°	1781.1	7.0
30°-40°	2649.1	10.4
40°-50°	3903.1	15.3
50°-60°	5464.4	21.5
60°-70°	6111.8	24.0
70°-80°	3733.3	14.7
80°-90°	480.3	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°	25456.0	100.0
0°-180°	25456.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455950

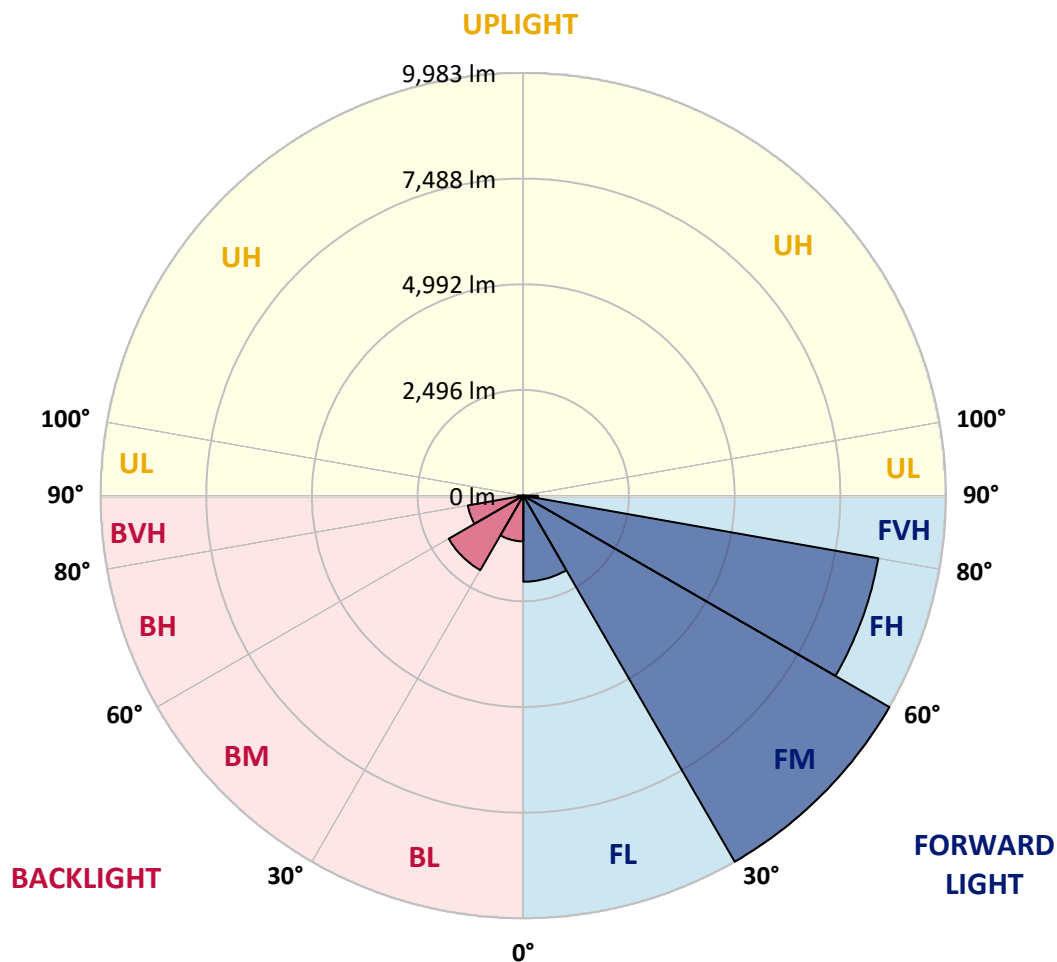
CATALOG NUMBER: GALN-SA7A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.9	8.0			
FM	(30°-60°)	9983.3	39.2			
FH	(60°-80°)	8515.0	33.4			G4/12000
FVH	(80°-90°)	345.6	1.4			G3/500
BL	(0°-30°)	1080.0	4.2	B3/2500		
BM	(30°-60°)	2033.4	8.0	B2/2500		
BH	(60°-80°)	1330.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	134.7	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 II Medium





REPORT NUMBER: P455950

CATALOG NUMBER: GALN-SA7A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2
2.5°	3468.4	3451.6	3453.0	3429.2	3398.4	3364.9	3317.3	3275.3	3241.7	3222.2	3164.8
5°	3843.4	3826.6	3805.6	3753.8	3731.4	3648.9	3544.0	3448.8	3376.1	3335.5	3220.8
7.5°	4147.0	4142.8	4137.2	4107.8	4050.4	3935.7	3846.2	3681.1	3573.3	3496.4	3300.5
10°	4334.5	4341.5	4345.6	4351.2	4327.5	4267.3	4144.2	3935.7	3798.6	3700.7	3404.0
12.5°	4429.6	4436.6	4460.4	4512.1	4544.3	4537.3	4436.6	4232.3	4043.4	3914.7	3514.6
15°	4488.4	4499.6	4541.5	4610.1	4717.8	4786.4	4737.4	4548.5	4341.5	4188.9	3646.1
17.5°	4552.7	4565.3	4611.5	4709.4	4850.7	4999.0	5052.2	4889.9	4664.6	4482.8	3793.0
20°	4589.1	4605.9	4671.6	4800.4	4965.5	5180.9	5357.2	5271.9	5025.6	4824.1	3962.3
22.5°	4647.9	4661.8	4717.8	4854.9	5052.2	5322.2	5662.2	5644.0	5427.2	5166.9	4148.4
25°	4807.4	4829.7	4857.7	4940.3	5130.6	5466.3	5915.5	6041.4	5816.1	5525.1	4319.1
27.5°	5108.2	5126.4	5125.0	5136.1	5243.9	5590.9	6135.1	6434.5	6202.3	5887.5	4484.2
30°	5450.9	5457.9	5463.5	5438.4	5462.1	5718.2	6336.6	6823.5	6591.2	6259.6	4628.3
32.5°	5867.9	5881.9	5834.3	5769.9	5750.4	5907.1	6503.1	7212.4	7051.5	6637.4	4771.0
35°	6360.4	6396.7	6300.2	6186.9	6107.1	6178.5	6726.9	7609.8	7523.0	7120.1	4959.9
37.5°	6922.8	6967.6	6878.0	6655.6	6542.3	6561.8	7019.4	8100.9	8119.1	7669.9	5241.1
40°	7383.1	7441.9	7444.7	7129.9	6957.8	6980.2	7390.1	8629.7	8838.2	8349.9	5572.7
42.5°	7686.7	7744.1	7804.3	7619.6	7439.1	7566.4	7822.4	9203.4	9646.9	9175.4	6035.8
45°	8019.7	8071.5	8105.1	8021.1	7920.4	8250.6	8344.3	9813.4	10508.7	10097.4	6542.3
47.5°	8405.9	8463.2	8495.4	8415.7	8377.9	8850.8	8906.8	10382.8	11429.4	10992.8	7101.9
50°	8920.8	8964.1	8947.3	8897.0	8888.6	9311.1	9446.8	10915.9	12189.1	11956.8	7682.5
52.5°	9561.5	9613.3	9631.5	9560.1	9528.0	9639.9	9881.9	11401.4	12880.2	12785.1	8302.3
55°	9949.1	10031.6	10308.7	10420.6	10497.6	10065.2	10350.6	11937.2	13500.1	13658.2	8968.3
57.5°	9452.4	9558.7	10178.6	10738.2	11461.5	11128.6	11015.2	12496.9	14119.9	14504.6	9765.8
60°	8240.8	8264.6	9063.5	10094.6	11549.7	12495.5	12401.7	13386.7	14791.4	15358.1	10816.6
62.5°	5716.8	5767.1	6711.6	8356.9	10461.2	12988.0	14760.7	14923.0	15754.0	16635.5	12357.0
65°	2947.9	2882.2	3742.6	5252.3	7886.8	11818.3	16671.8	17747.8	17841.5	18633.4	14525.6
67.5°	1814.7	1844.0	2247.0	3066.9	4663.2	8589.2	16471.8	21199.4	20705.5	21086.0	16538.9
70°	1362.7	1399.1	1676.1	2098.7	2843.0	4910.9	13246.8	22036.0	22725.8	22627.9	17151.7
71°	1185.0	1222.8	1511.0	1909.8	2388.3	3790.2	11160.7	21160.2	22795.8	22779.0	16920.9
72.5°	1010.2	1033.9	1259.2	1617.4	2013.3	2656.9	8384.9	18977.6	21823.4	22381.6	16096.8
75°	793.3	811.5	912.2	1234.0	1585.2	1631.4	4499.6	14227.6	17924.1	18987.4	13400.7
77.5°	646.4	659.0	710.7	916.4	1222.8	1155.7	2360.3	9260.7	11229.3	12299.6	7893.8
80°	513.5	527.5	558.2	621.2	916.4	824.1	1126.3	4692.6	5424.4	5413.2	3150.8
82.5°	398.7	402.9	439.3	456.1	626.8	584.8	610.0	1986.7	2200.8	2273.6	1137.5
85°	251.8	264.4	389.0	349.8	375.0	342.8	300.8	789.1	972.4	958.4	454.7
87.5°	77.0	81.1	131.5	148.3	166.5	149.7	110.5	232.3	284.0	307.8	113.3
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: P455950

CATALOG NUMBER: GALN-SA7A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2	3124.2
2.5°	3142.4	3127.0	3072.5	3027.7	2985.7	2939.5	2900.4	2889.2	2879.4	2875.2	2873.8
5°	3171.8	3125.6	3017.9	2929.7	2859.8	2795.4	2754.9	2736.7	2718.5	2718.5	2724.1
7.5°	3213.8	3129.8	2963.3	2831.8	2743.7	2683.5	2654.1	2651.3	2655.5	2659.7	2661.1
10°	3259.9	3127.0	2883.6	2719.9	2641.5	2613.5	2614.9	2638.7	2661.1	2677.9	2680.7
12.5°	3304.7	3110.2	2789.8	2614.9	2564.6	2570.2	2609.3	2662.5	2705.9	2729.7	2731.1
15°	3355.1	3083.6	2676.5	2515.6	2498.8	2542.2	2614.9	2696.1	2761.9	2801.0	2805.2
17.5°	3397.0	3038.9	2557.6	2419.1	2440.1	2519.8	2620.5	2725.5	2805.2	2854.2	2862.6
20°	3444.6	2981.5	2434.5	2326.7	2386.9	2494.6	2609.3	2722.7	2805.2	2852.8	2864.0
22.5°	3482.4	2900.4	2316.9	2251.2	2339.3	2463.8	2571.6	2662.5	2729.7	2754.9	2771.6
25°	3497.8	2798.2	2206.4	2189.6	2301.5	2413.5	2486.2	2538.0	2559.0	2556.2	2563.2
27.5°	3489.4	2680.7	2111.3	2140.6	2254.0	2335.1	2371.5	2367.3	2329.5	2294.5	2311.3
30°	3454.4	2540.8	2031.5	2090.3	2192.4	2237.2	2231.6	2177.0	2105.7	2039.9	2044.1
32.5°	3391.5	2389.7	1957.4	2032.9	2105.7	2125.3	2087.5	2016.1	1914.0	1828.6	1816.1
35°	3338.3	2245.6	1891.6	1967.2	2018.9	2009.1	1972.8	1880.4	1788.1	1712.5	1699.9
37.5°	3329.9	2122.5	1828.6	1893.0	1922.4	1908.4	1863.6	1785.3	1751.7	1694.3	1687.3
40°	3374.7	2035.7	1764.3	1814.7	1828.6	1817.4	1768.5	1723.7	1754.5	1740.5	1740.5
42.5°	3496.4	1989.5	1706.9	1736.3	1747.5	1755.9	1720.9	1683.1	1720.9	1656.6	1635.6
45°	3689.5	1990.9	1655.2	1659.3	1692.9	1722.3	1698.5	1642.6	1623.0	1494.3	1469.1
47.5°	3973.5	2038.5	1613.2	1586.6	1646.8	1695.7	1662.1	1581.0	1494.3	1408.9	1393.5
50°	4305.1	2123.9	1575.4	1511.0	1585.2	1662.1	1637.0	1541.8	1452.3	1400.5	1390.7
52.5°	4673.0	2231.6	1529.2	1427.1	1509.6	1646.8	1642.6	1536.2	1413.1	1378.1	1369.7
55°	5127.8	2337.9	1471.9	1329.2	1442.5	1634.2	1627.2	1490.1	1404.7	1379.5	1376.7
57.5°	5656.6	2491.8	1389.3	1229.8	1365.5	1582.4	1567.0	1462.1	1376.7	1358.5	1357.1
60°	6508.7	2731.1	1271.8	1138.9	1287.2	1491.5	1511.0	1414.5	1332.0	1327.8	1326.4
62.5°	7629.4	3066.9	1150.1	1045.1	1196.2	1373.9	1429.9	1350.1	1284.4	1305.4	1308.2
65°	9176.8	3349.5	1024.2	965.4	1095.5	1260.6	1352.9	1290.0	1231.2	1271.8	1271.8
67.5°	10185.6	3355.1	909.4	882.8	993.4	1165.5	1271.8	1218.6	1162.7	1231.2	1234.0
70°	9975.7	2939.5	814.3	796.1	894.0	1063.3	1182.3	1140.3	1075.9	1137.5	1115.1
71°	9637.1	2708.7	776.5	762.5	854.9	1014.4	1140.3	1105.3	1040.9	1081.5	1068.9
72.5°	9097.0	2351.9	714.9	717.7	796.1	952.8	1081.5	1045.1	980.8	1003.2	999.0
75°	7689.5	2053.9	611.4	624.0	684.2	847.9	964.0	936.0	870.2	870.2	866.1
77.5°	4807.4	1435.5	507.9	514.9	580.6	726.1	828.3	804.5	741.5	720.5	714.9
80°	1793.7	741.5	397.3	405.7	446.3	572.2	685.6	663.2	598.8	575.0	552.7
82.5°	678.6	372.2	292.4	285.4	328.8	436.5	537.3	510.7	460.3	402.9	386.2
85°	256.0	184.7	179.1	173.5	193.1	258.8	333.0	327.4	274.2	233.7	229.5
87.5°	67.2	60.2	70.0	51.8	54.6	49.0	50.4	21.0	9.8	4.2	2.8
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)