

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: P455704

Luminaire Tested: **GALN-SA6D-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36810 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 368
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

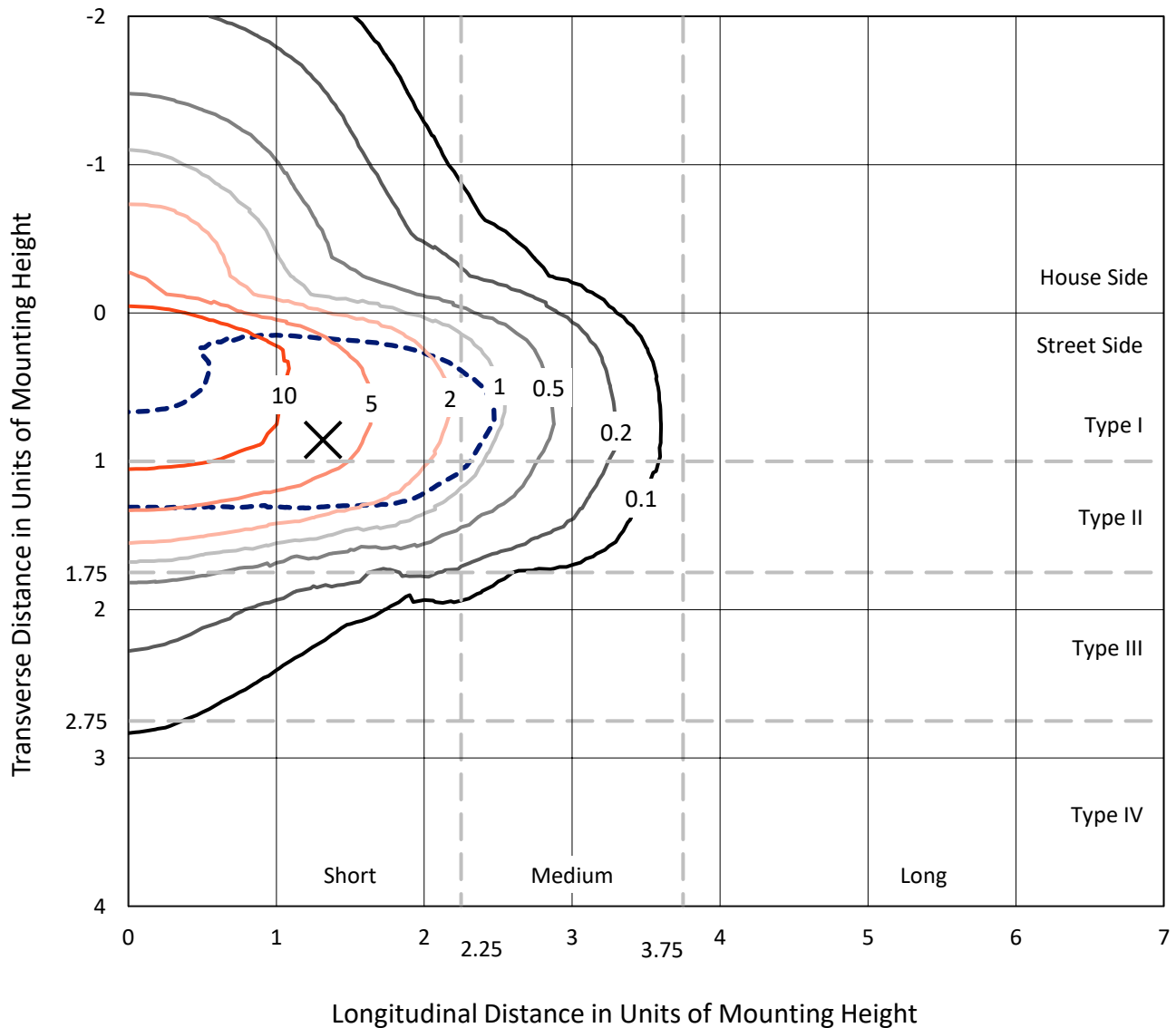


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

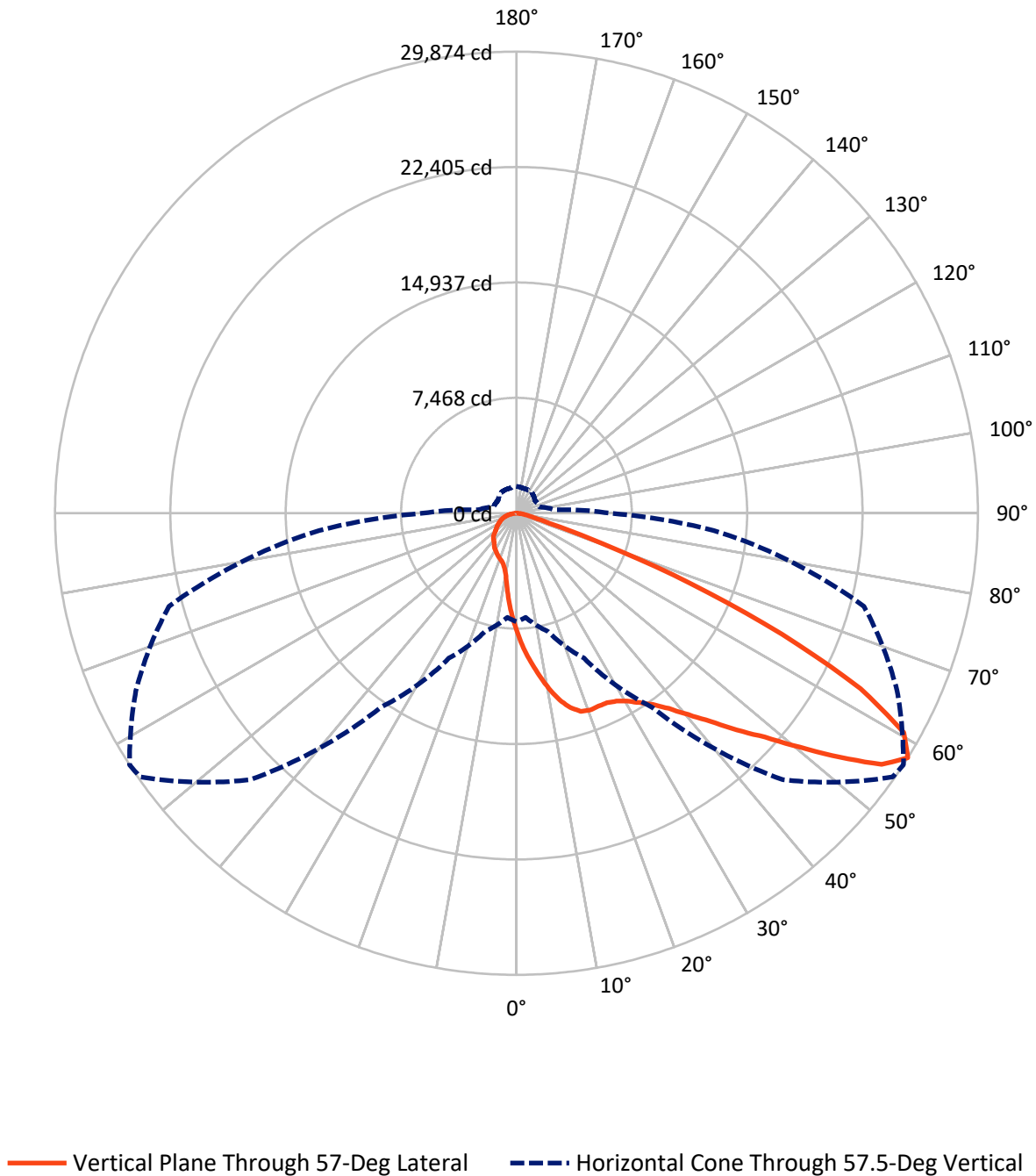


Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5597.8	0.0	5597.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	31212.2	0.0	31212.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	36810.0	0.0	36810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.3	2.0
10°-20°	2190.4	6.0
20°-30°	3637.2	9.9
30°-40°	5478.7	14.9
40°-50°	8225.7	22.3
50°-60°	9220.0	25.0
60°-70°	5396.0	14.7
70°-80°	1596.1	4.3
80°-90°	322.6	0.9
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°	36810.0	100.0
0°-180°	36810.0	100.0

Coefficient of Utilization



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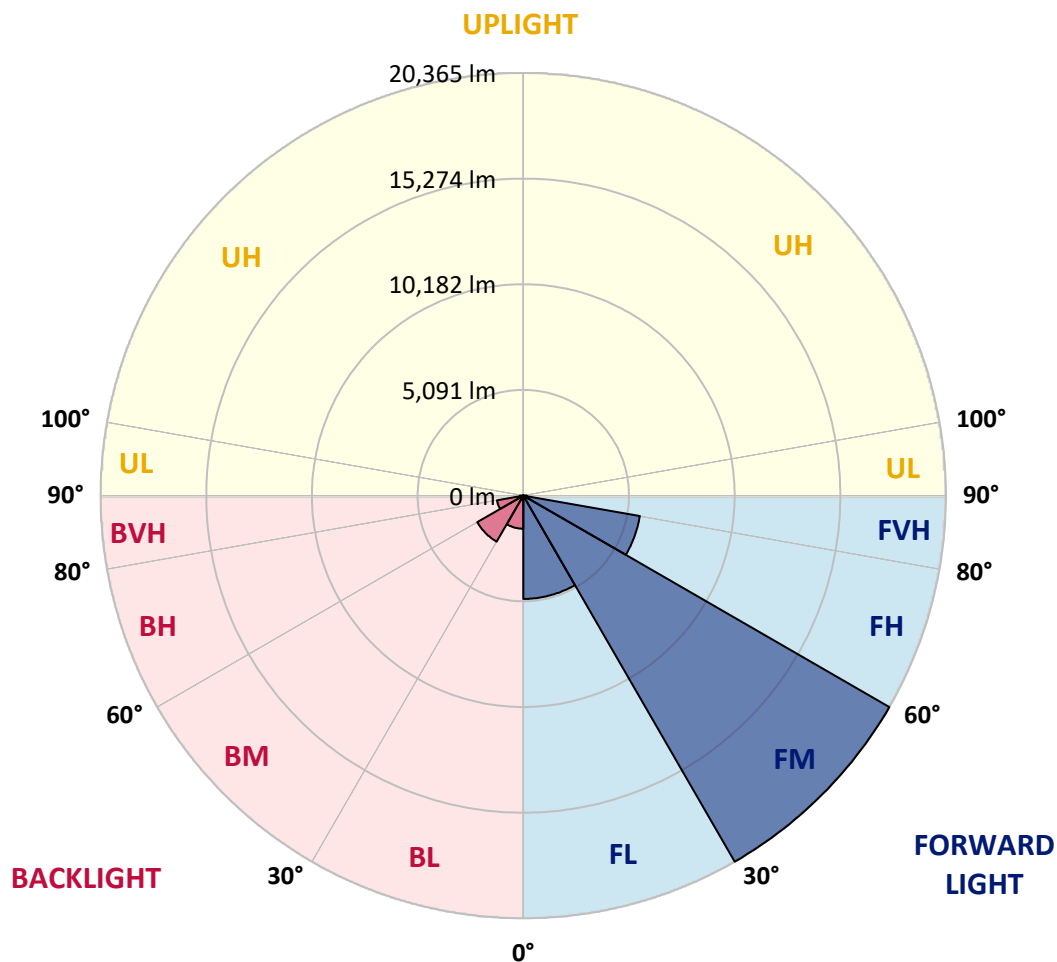
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4975.9	13.5			
FM	(30°-60°)	20364.9	55.3			
FH	(60°-80°)	5704.1	15.5			G3/7500
FVH	(80°-90°)	167.4	0.5			G2/225
BL	(0°-30°)	1595.0	4.3	B3/2500		
BM	(30°-60°)	2559.5	7.0	B3/5000		
BH	(60°-80°)	1288.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	155.2	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4
2.5°	9609.3	9504.5	9421.9	9349.3	9254.6	8998.7	8742.8	8738.8	8535.3	8221.0	7898.6
5°	11174.9	11033.8	11052.0	10826.3	10600.6	10229.9	9687.9	9659.6	9226.4	8638.1	8039.6
7.5°	12194.4	12196.5	12140.0	12011.1	11767.3	11346.2	10731.6	10592.6	9990.1	9097.5	8200.8
10°	12142.1	12196.5	12291.2	12402.0	12476.5	12269.0	11708.8	11539.6	10755.8	9653.6	8380.2
12.5°	11444.9	11529.5	11664.5	11942.6	12391.9	12734.5	12543.0	12406.0	11642.4	10207.7	8577.6
15°	11009.7	11060.0	11134.6	11322.0	11805.6	12625.6	13121.3	13048.8	12478.6	10834.4	8799.3
17.5°	10876.7	10927.0	10951.2	11066.1	11410.6	12250.9	13349.0	13478.0	13220.1	11410.6	9022.9
20°	11009.7	11033.8	11033.8	11102.3	11372.4	12031.2	13338.9	13598.9	13828.6	12101.8	9232.5
22.5°	11358.2	11368.3	11354.2	11378.4	11579.9	12091.7	13244.2	13566.6	14320.2	12688.1	9395.7
25°	11924.4	11940.6	11847.9	11791.5	11938.6	12357.7	13296.6	13592.8	14705.1	13248.3	9504.5
27.5°	12567.2	12587.4	12474.5	12343.6	12412.1	12686.1	13502.1	13768.1	14993.2	13800.4	9573.0
30°	13355.1	13363.1	13173.7	13016.5	12972.2	13175.7	13852.7	14100.6	15351.9	14451.2	9675.8
32.5°	14161.0	14221.5	13977.7	13756.0	13681.5	13743.9	14370.6	14610.4	15779.0	15150.4	9841.0
35°	15257.2	15267.2	14975.1	14705.1	14459.2	14539.8	15033.5	15206.8	16369.4	15958.4	10074.7
37.5°	16625.3	16718.0	16315.0	15811.3	15509.0	15392.2	15835.5	16024.9	17197.6	16949.7	10427.3
40°	18144.6	18178.8	17834.3	17519.9	16967.9	16629.3	16935.6	17141.1	18219.1	18132.5	10836.4
42.5°	19099.7	19174.2	19200.4	19168.2	18753.1	18184.9	18301.7	18398.5	19428.1	19242.7	11255.5
45°	19422.1	19532.9	19907.7	20701.5	20745.9	20185.7	19913.7	20006.4	20745.9	20363.0	11656.5
47.5°	18888.1	19077.5	19768.6	21396.7	22615.7	22658.1	21838.0	21634.5	21946.8	21291.9	11946.6
50°	17507.9	17548.2	18606.0	20963.5	23492.2	25021.6	24173.3	23794.5	23087.2	21979.0	12146.1
52.5°	15372.0	15418.4	16304.9	18950.6	22952.2	26673.8	26905.6	26228.5	24245.8	22513.0	12277.1
55°	11410.6	11678.6	12653.9	15210.8	20393.3	26518.7	29077.7	28692.8	25646.2	22936.1	12482.6
57.5°	7016.0	6770.2	7926.8	10348.8	15337.8	24386.9	29748.7	29873.6	27187.7	23290.8	12827.1
60°	3227.9	3276.3	3753.8	5337.6	9349.3	19077.5	28019.8	28809.7	28040.0	23278.7	12913.8
62.5°	2224.5	2180.2	2059.3	2343.4	4263.6	12065.5	23667.5	25005.5	26331.3	22555.3	12569.2
65°	1988.8	1944.4	1710.7	1632.1	1958.5	5259.0	17205.6	18894.1	22170.4	20729.8	11710.9
67.5°	1857.8	1797.3	1555.5	1402.4	1398.4	2093.5	10145.2	12178.3	16444.0	17526.0	10147.3
70°	1720.8	1672.4	1432.6	1263.4	1190.8	1315.8	4459.1	5837.3	10677.2	12629.7	7904.6
72.5°	1583.7	1527.3	1311.7	1130.4	1035.7	985.3	1708.7	2222.5	6032.7	7572.2	4845.9
75°	1384.3	1356.1	1172.7	1023.6	920.8	795.9	1084.0	1237.2	2885.4	3477.8	2432.0
77.5°	1211.0	1180.8	1041.7	894.6	820.1	646.8	769.7	840.2	1217.0	1410.5	1098.1
80°	886.6	916.8	878.5	789.9	731.4	507.8	517.8	576.3	723.4	799.9	671.0
82.5°	562.2	618.6	677.0	608.5	554.1	401.0	358.7	380.8	493.7	523.9	298.2
85°	235.7	239.8	392.9	370.7	316.3	237.8	215.6	227.7	264.0	276.0	139.0
87.5°	90.7	88.7	139.0	129.0	98.7	68.5	68.5	76.6	104.8	96.7	44.3
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°	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4	7733.4
2.5°	7759.6	7616.5	7332.4	6979.8	6721.9	6431.7	6175.8	5992.4	5923.9	5891.7	5831.3
5°	7753.5	7471.4	6883.1	6266.5	5770.8	5263.0	4833.9	4555.8	4531.6	4346.2	4328.1
7.5°	7755.5	7324.3	6387.4	5480.7	4725.0	4205.2	3850.6	3757.9	3647.1	3618.8	3632.9
10°	7761.6	7136.9	5855.4	4702.9	3971.5	3630.9	3497.9	3461.7	3465.7	3477.8	3479.8
12.5°	7769.6	6955.6	5303.3	4112.5	3548.3	3407.3	3393.2	3425.4	3459.7	3485.9	3491.9
15°	7779.7	6748.1	4765.3	3637.0	3336.7	3324.7	3371.0	3425.4	3473.8	3512.0	3518.1
17.5°	7767.6	6506.3	4314.0	3344.8	3219.9	3278.3	3354.9	3423.4	3467.7	3504.0	3508.0
20°	7739.4	6236.3	3878.8	3139.3	3147.3	3242.0	3324.7	3389.1	3437.5	3455.6	3469.7
22.5°	7630.6	5913.9	3500.0	2980.1	3060.7	3191.7	3290.4	3328.7	3274.3	3236.0	3246.1
25°	7445.2	5494.8	3147.3	2851.1	2982.1	3121.2	3221.9	3129.2	3084.9	3068.8	3076.8
27.5°	7213.5	5035.3	2881.4	2716.1	2881.4	3042.6	3014.4	2998.2	2978.1	2951.9	2957.9
30°	6963.7	4586.0	2655.7	2611.4	2772.6	2865.3	2877.3	2903.5	2881.4	2841.1	2857.2
32.5°	6731.9	4162.9	2484.4	2522.7	2696.0	2681.9	2772.6	2802.8	2700.0	2565.0	2571.1
35°	6534.5	3770.0	2355.5	2436.1	2565.0	2571.1	2661.7	2557.0	2446.1	2381.7	2385.7
37.5°	6385.4	3463.7	2270.8	2361.5	2397.8	2474.4	2426.0	2371.6	2357.5	2313.2	2315.2
40°	6296.7	3195.7	2216.4	2303.1	2297.0	2349.4	2194.3	2248.7	2268.8	2254.7	2256.7
42.5°	6208.0	3006.3	2160.0	2222.5	2220.5	2117.7	2083.5	2129.8	2182.2	2188.2	2184.2
45°	6137.5	2859.2	2101.6	2099.6	2139.9	1978.7	1968.6	1996.8	2071.4	2107.6	2105.6
47.5°	6058.9	2736.3	2012.9	1956.5	1968.6	1892.0	1875.9	1888.0	1978.7	2037.1	2053.2
50°	5960.2	2613.4	1902.1	1825.5	1775.2	1811.4	1815.5	1817.5	1908.2	1974.6	1988.8
52.5°	5881.6	2520.7	1775.2	1718.7	1658.3	1738.9	1769.1	1773.2	1827.6	1882.0	1892.0
55°	5928.0	2468.3	1650.2	1609.9	1555.5	1664.3	1722.8	1730.8	1742.9	1783.2	1789.3
57.5°	6067.0	2480.4	1549.5	1497.1	1456.8	1575.7	1674.4	1680.5	1672.4	1720.8	1728.8
60°	6109.3	2474.4	1474.9	1372.2	1348.0	1481.0	1603.9	1616.0	1614.0	1684.5	1698.6
62.5°	5932.0	2397.8	1400.4	1267.4	1251.3	1384.3	1505.2	1553.5	1563.6	1664.3	1682.5
65°	5514.9	2240.6	1301.7	1156.6	1156.6	1281.5	1410.5	1477.0	1505.2	1640.2	1660.3
67.5°	4964.8	2055.2	1200.9	1061.9	1057.8	1182.8	1309.7	1378.2	1422.6	1605.9	1618.0
70°	4120.6	1805.4	1076.0	959.1	959.1	1072.0	1186.8	1269.4	1333.9	1541.4	1541.4
72.5°	2822.9	1501.1	924.9	842.2	844.3	949.0	1065.9	1158.6	1235.2	1412.5	1416.5
75°	1785.2	1172.7	759.6	717.3	725.4	824.1	945.0	1041.7	1194.9	1396.4	1402.4
77.5°	949.0	824.1	604.5	594.4	604.5	695.2	830.2	963.1	1198.9	1211.0	1190.8
80°	614.6	584.3	477.5	457.4	461.4	560.2	739.5	914.8	963.1	975.2	930.9
82.5°	334.5	370.7	338.5	318.4	318.4	437.2	630.7	727.4	691.1	574.3	548.1
85°	143.1	173.3	175.3	153.1	147.1	270.0	423.1	396.9	368.7	352.6	348.6
87.5°	40.3	56.4	56.4	42.3	32.2	74.6	84.6	24.2	0.0	2.0	4.0
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)