

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: P455256

Luminaire Tested: **GALN-SA6B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27326 lumens
Efficiency: N/A
Efficacy: 112.5 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): 243
Input Voltage (V): NR
Input Current (A_{in}): 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

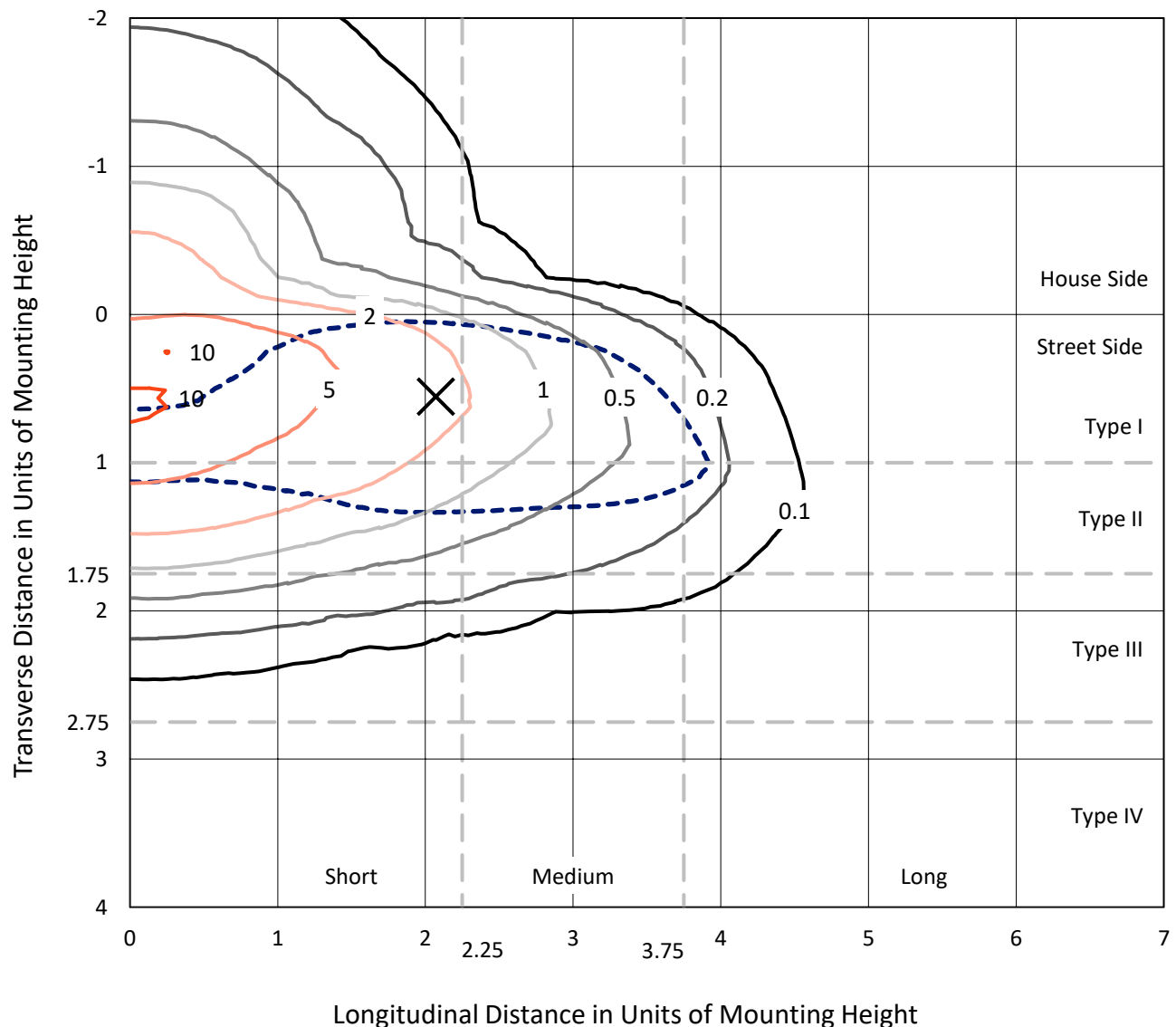


REPORT NUMBER: P455256

CATALOG NUMBER: GALN-SA6B-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



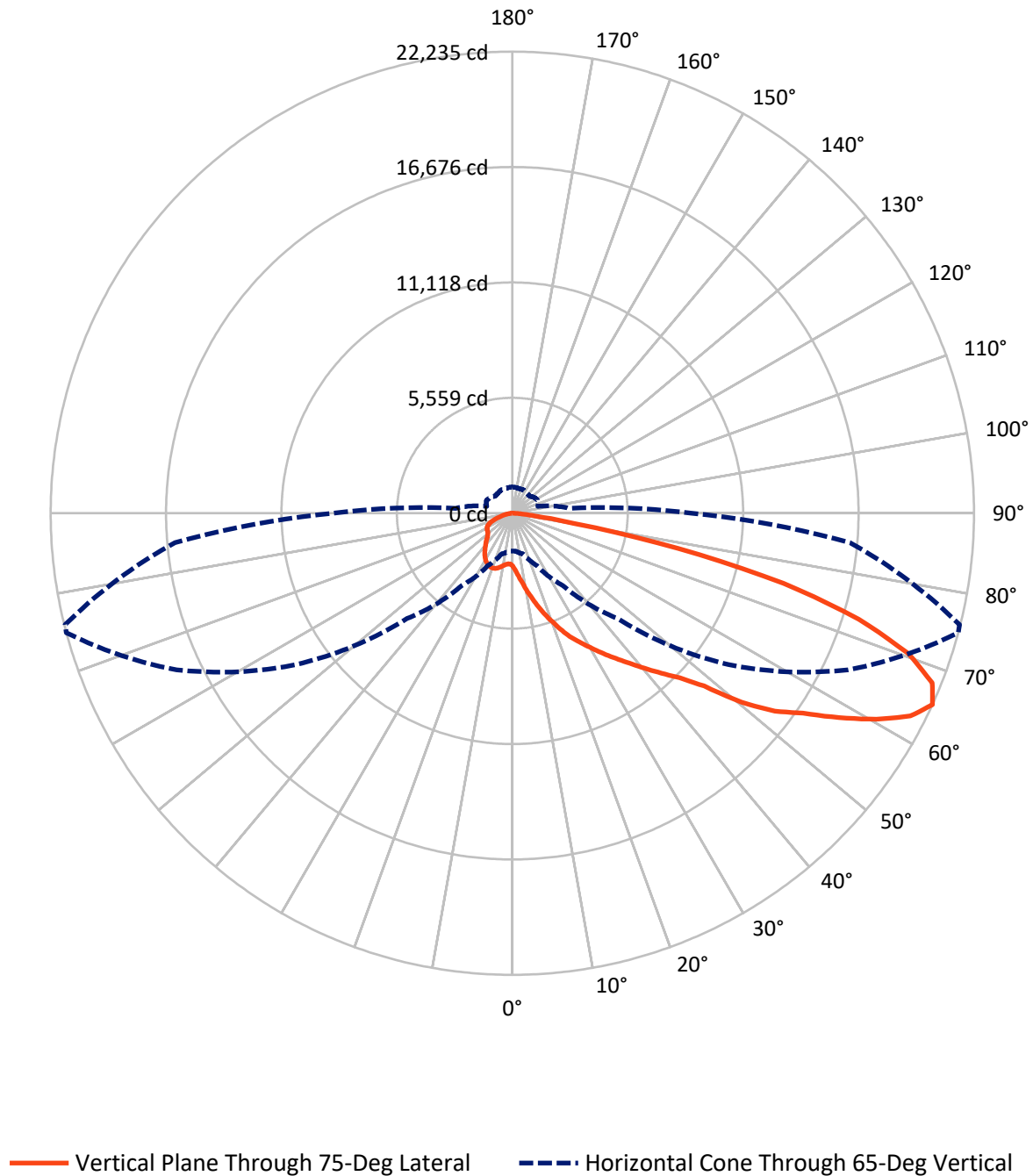
Based on 25 foot mounting height. Maximum calculated value = 10.6 fc

Type II - Short - N/A

REPORT NUMBER: P455256

CATALOG NUMBER: GALN-SA6B-830-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P455256

CATALOG NUMBER: GALN-SA6B-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4593.9	0.0	4593.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22732.1	0.0	22732.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	27326.0	0.0	27326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	1.1
10°-20°	1208.2	4.4
20°-30°	2333.9	8.5
30°-40°	3791.0	13.9
40°-50°	5214.8	19.1
50°-60°	6157.0	22.5
60°-70°	5394.5	19.7
70°-80°	2575.4	9.4
80°-90°	342.7	1.3
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°	27326.0	100.0
0°-180°	27326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455256

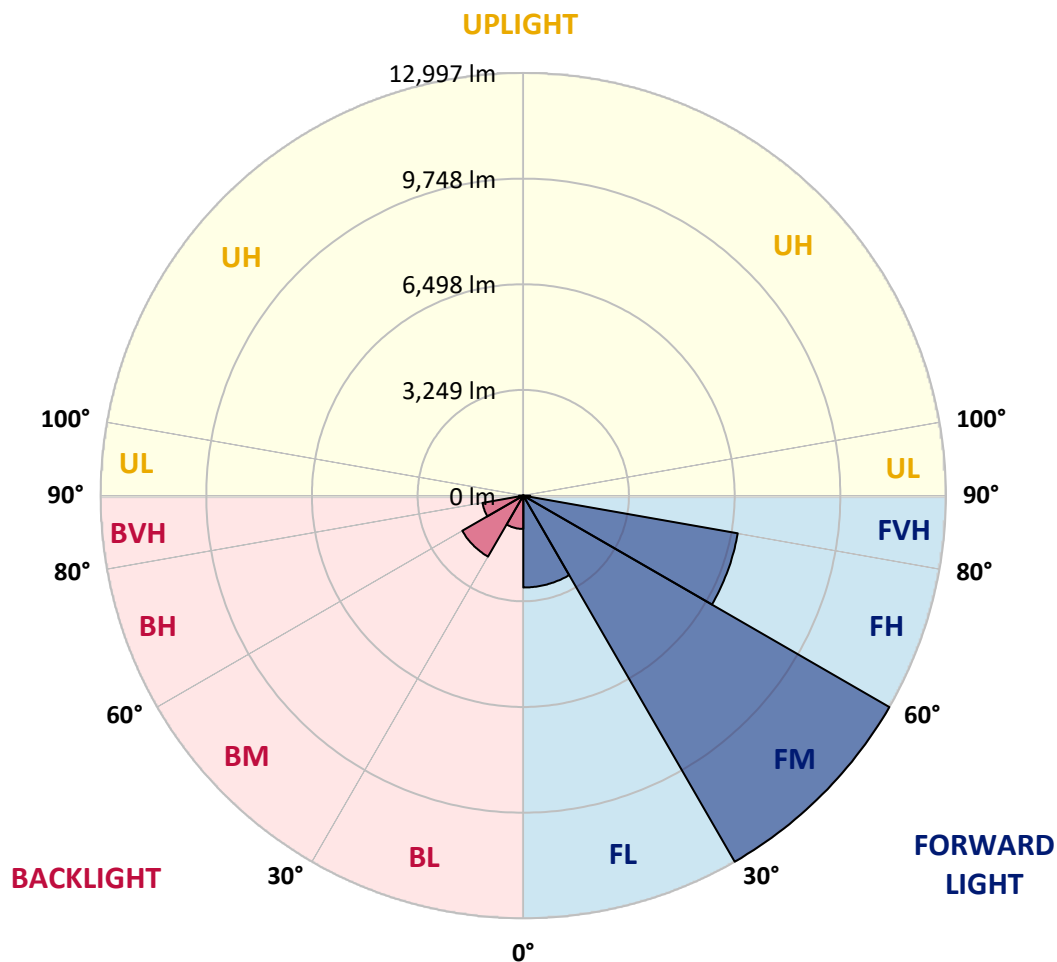
CATALOG NUMBER: GALN-SA6B-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.1	10.3			
FM	(30°-60°)	12996.8	47.6			
FH	(60°-80°)	6696.1	24.5			G3/7500
FVH	(80°-90°)	214.2	0.8			G2/225
BL	(0°-30°)	1025.6	3.8	B3/2500		
BM	(30°-60°)	2166.0	7.9	B2/2500		
BH	(60°-80°)	1273.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	128.5	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-G3

Type II Short





REPORT NUMBER: P455256

CATALOG NUMBER: GALN-SA6B-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9
2.5°	3373.4	3351.2	3327.4	3262.2	3192.6	3114.0	3001.4	2893.2	2749.4	2744.9	2638.2
5°	4308.6	4293.8	4188.6	4127.8	3966.2	3751.3	3569.0	3285.9	3023.6	2992.5	2785.0
7.5°	5168.3	5110.5	5070.5	4960.8	4800.7	4525.0	4172.3	3789.9	3351.2	3309.7	2965.8
10°	5816.0	5810.0	5789.3	5694.4	5574.4	5300.2	4908.9	4360.5	3766.2	3684.6	3185.1
12.5°	6300.6	6305.1	6302.1	6300.6	6214.7	5982.0	5558.1	4980.0	4185.6	4127.8	3438.6
15°	6619.3	6663.8	6681.6	6755.7	6763.1	6607.4	6242.8	5578.8	4658.4	4572.4	3711.3
17.5°	6829.8	6852.0	6935.0	7061.0	7163.3	7135.1	6810.5	6133.2	5141.6	4997.8	3994.4
20°	7031.3	7069.9	7133.6	7305.5	7486.4	7569.4	7341.1	6700.8	5620.3	5528.4	4307.1
22.5°	7450.8	7505.6	7527.9	7615.3	7769.5	7916.2	7812.4	7244.8	6145.0	6020.5	4639.1
25°	8160.7	8218.5	8156.3	8135.5	8185.9	8258.6	8236.3	7757.6	6640.1	6462.2	4953.4
27.5°	9085.6	9093.0	8971.5	8855.9	8731.4	8694.3	8626.1	8212.6	7069.9	6921.7	5269.1
30°	10078.7	10043.1	9841.5	9632.5	9422.1	9214.6	9018.9	8651.3	7548.6	7378.2	5578.8
32.5°	11000.6	10981.3	10757.5	10432.9	10077.2	9881.5	9485.8	9094.5	8061.4	7896.9	5897.5
35°	11691.2	11719.4	11473.4	11119.1	10730.8	10557.4	10057.9	9559.9	8592.0	8412.7	6244.3
37.5°	12181.8	12167.0	11949.1	11642.3	11301.4	11150.2	10726.4	10068.3	9162.7	8990.7	6623.7
40°	12356.7	12347.8	12186.3	11962.5	11746.1	11692.7	11425.9	10616.7	9816.3	9614.7	7080.3
42.5°	12245.6	12264.8	12158.1	12097.3	12057.3	12095.9	12121.1	11335.5	10529.2	10344.0	7575.3
45°	11904.7	11894.3	11879.5	11978.8	12204.1	12457.5	12808.8	12014.3	11304.4	11156.2	8239.3
47.5°	11295.5	11369.6	11406.7	11680.9	12172.9	12773.2	13600.2	12924.4	12429.3	12300.4	9251.6
50°	10443.3	10502.5	10721.9	11209.5	11943.2	12891.8	14373.9	14412.5	14305.8	14064.2	10351.4
52.5°	9112.3	9204.2	9656.2	10550.0	11471.9	12842.9	14842.3	15688.6	15829.4	15648.6	11434.8
55°	7622.7	7751.7	8228.9	9401.3	10822.7	12576.1	15165.4	16428.2	16989.9	16822.5	12478.3
57.5°	6164.3	6300.6	6791.2	7926.6	9690.3	11986.2	15377.4	17252.3	18569.9	18352.0	13776.6
60°	4619.9	4762.2	5183.1	6352.5	8077.7	10833.1	15233.6	17966.7	20148.4	20055.0	15076.5
62.5°	2980.6	3137.7	3503.8	4471.7	6208.7	9257.5	14464.3	18360.9	21515.0	21402.3	16025.1
65°	1815.6	1833.4	2035.0	2776.1	4249.3	7167.7	12705.0	17837.7	22235.3	22201.2	16314.1
67.5°	1173.9	1202.0	1293.9	1663.0	2547.8	4978.6	10158.7	16111.0	21814.3	21802.5	15716.8
70°	991.6	1000.5	1042.0	1122.0	1480.7	3019.1	7133.6	13358.7	20215.1	20215.1	14280.6
72.5°	886.3	898.2	913.0	938.2	1056.8	1710.4	4256.7	10398.8	17453.9	17569.5	12155.1
75°	804.8	801.8	810.7	815.2	901.1	1117.5	2201.0	7690.9	13502.4	13271.2	8802.5
77.5°	689.2	693.6	689.2	708.5	795.9	850.8	1117.5	5160.9	8183.0	7883.6	4418.3
80°	566.2	573.6	581.0	592.9	680.3	646.2	671.4	2352.2	3026.6	2962.8	1365.1
82.5°	425.4	435.8	447.6	475.8	535.1	426.9	423.9	1004.9	1092.3	1000.5	502.5
85°	171.9	203.1	306.8	335.0	336.4	234.2	260.9	419.4	446.1	435.8	197.1
87.5°	40.0	47.4	99.3	149.7	137.8	87.4	96.3	136.4	155.6	143.8	66.7
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: P455256

CATALOG NUMBER: GALN-SA6B-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9	2538.9
2.5°	2589.3	2537.4	2448.5	2380.3	2331.4	2288.4	2261.8	2245.5	2239.5	2238.1	2239.5
5°	2676.8	2584.9	2444.1	2355.1	2306.2	2278.1	2261.8	2260.3	2261.8	2263.2	2258.8
7.5°	2796.8	2664.9	2481.1	2398.1	2361.1	2340.3	2332.9	2329.9	2331.4	2329.9	2329.9
10°	2956.9	2776.1	2553.8	2467.8	2436.7	2412.9	2401.1	2393.7	2387.8	2381.8	2378.9
12.5°	3133.3	2899.1	2632.3	2549.3	2504.8	2467.8	2441.1	2421.8	2408.5	2395.2	2392.2
15°	3330.4	3029.5	2719.8	2604.1	2540.4	2485.6	2439.6	2408.5	2384.8	2365.5	2364.0
17.5°	3518.6	3152.5	2779.0	2629.3	2536.0	2458.9	2398.1	2355.1	2325.5	2300.3	2297.3
20°	3720.2	3269.6	2805.7	2613.0	2491.5	2398.1	2318.1	2266.2	2232.1	2204.0	2199.5
22.5°	3923.3	3368.9	2802.8	2561.2	2414.4	2304.8	2220.3	2165.4	2125.4	2097.2	2086.9
25°	4117.4	3449.0	2765.7	2478.2	2307.7	2193.6	2107.6	2057.2	2021.7	1987.6	1987.6
27.5°	4292.3	3496.4	2696.0	2377.4	2198.0	2078.0	2009.8	1963.9	1931.2	1909.0	1895.7
30°	4464.2	3518.6	2601.2	2249.9	2082.4	1980.2	1925.3	1898.6	1869.0	1843.8	1840.8
32.5°	4618.4	3514.2	2482.6	2125.4	1972.7	1900.1	1877.9	1857.1	1826.0	1790.4	1781.5
35°	4768.1	3484.5	2341.8	1989.1	1880.9	1852.7	1858.6	1829.0	1772.7	1728.2	1720.8
37.5°	4931.1	3431.2	2187.7	1877.9	1803.8	1830.5	1845.3	1780.1	1688.2	1618.5	1602.2
40°	5119.4	3370.4	2027.6	1766.7	1743.0	1809.7	1809.7	1689.7	1563.7	1520.7	1508.8
42.5°	5340.2	3320.0	1894.2	1673.4	1692.6	1759.3	1751.9	1569.6	1517.7	1495.5	1489.6
45°	5690.0	3302.2	1756.4	1591.8	1651.1	1700.0	1639.3	1528.1	1498.5	1480.7	1474.7
47.5°	6242.8	3323.0	1634.8	1531.1	1603.7	1640.7	1513.3	1499.9	1479.2	1454.0	1451.0
50°	6755.7	3303.7	1548.9	1497.0	1562.2	1569.6	1461.4	1465.9	1454.0	1425.8	1419.9
52.5°	7175.1	3243.0	1494.0	1479.2	1526.6	1445.1	1412.5	1428.8	1424.4	1388.8	1382.9
55°	7636.1	3205.9	1467.3	1479.2	1502.9	1336.9	1366.5	1390.3	1384.3	1359.1	1357.7
57.5°	8194.8	3213.3	1448.1	1483.6	1479.2	1282.1	1320.6	1348.8	1347.3	1339.9	1339.9
60°	8766.9	3216.3	1418.4	1482.2	1451.0	1239.1	1273.2	1313.2	1316.2	1320.6	1320.6
62.5°	8956.7	3087.3	1360.6	1455.5	1388.8	1197.6	1228.7	1283.5	1280.6	1292.4	1293.9
65°	8602.4	2730.1	1274.7	1394.7	1308.7	1167.9	1194.6	1245.0	1228.7	1259.8	1265.8
67.5°	7830.2	2258.8	1141.3	1285.0	1219.8	1136.8	1172.4	1191.7	1162.0	1222.8	1224.3
70°	6767.5	1763.8	972.3	1129.4	1119.0	1104.2	1154.6	1125.0	1083.5	1157.6	1142.7
72.5°	5658.9	1347.3	776.6	923.4	984.2	1055.3	1123.5	1039.0	981.2	1003.4	976.7
75°	4250.8	996.0	624.0	723.3	819.6	985.6	1095.3	935.2	846.3	825.6	819.6
77.5°	2166.9	650.7	466.9	541.0	615.1	890.8	1056.8	813.7	701.1	668.5	653.6
80°	773.7	404.6	329.0	373.5	415.0	766.3	923.4	672.9	544.0	538.0	544.0
82.5°	358.7	260.9	220.8	244.6	246.0	511.3	704.0	502.5	413.5	628.4	530.6
85°	154.1	130.4	124.5	121.5	112.6	228.3	395.7	269.8	420.9	188.2	173.4
87.5°	45.9	51.9	45.9	34.1	25.2	25.2	40.0	14.8	10.4	7.4	7.4
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)