

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: P455080

Luminaire Tested: **GALN-SA6B-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455080
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-SA6B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28380 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

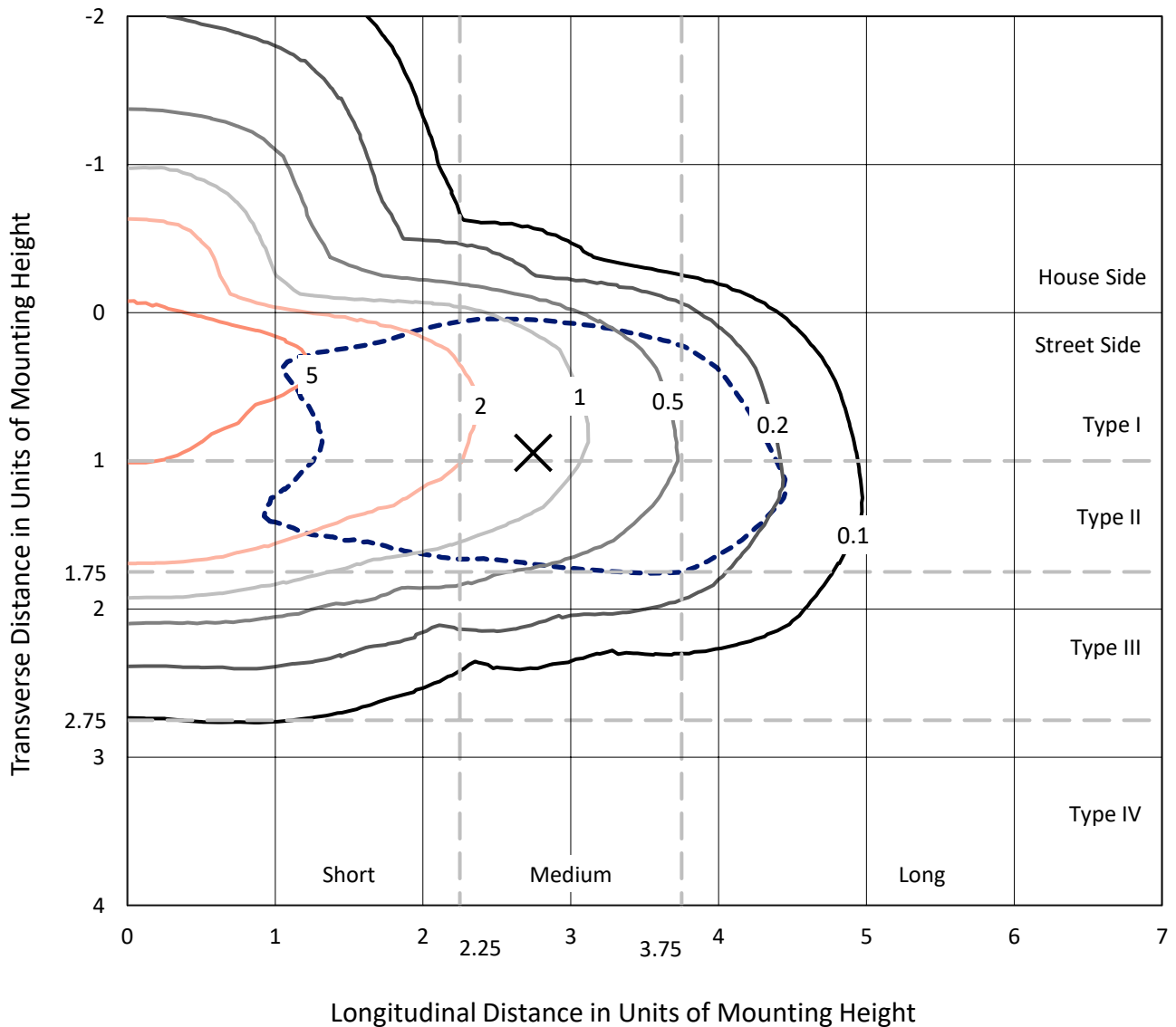
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455080
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Iso-Footcandle Lines of Horizontal Illumination

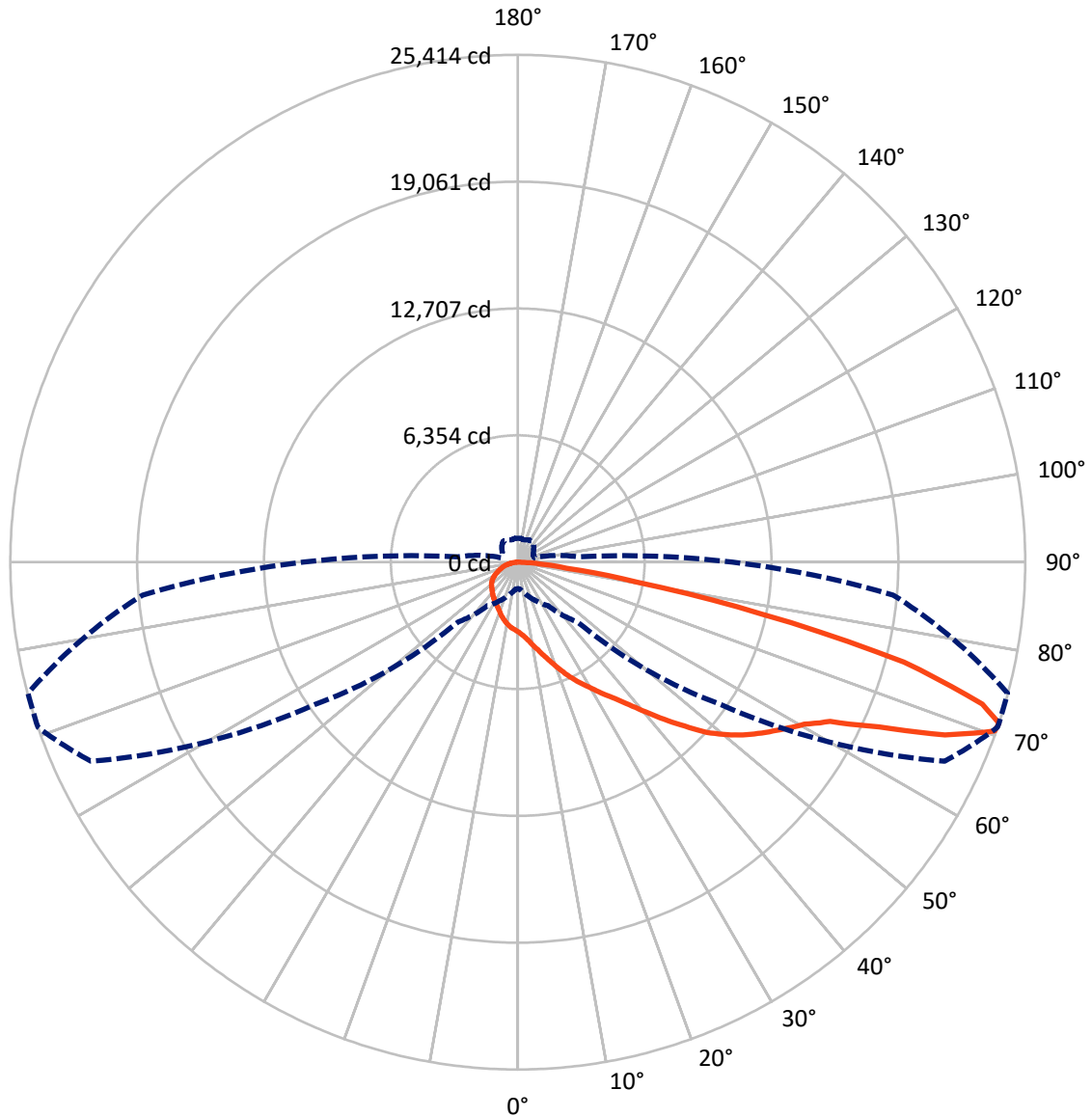
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P455080
CATALOG NUMBER: GALN-SA6B-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5104.1	0.0	5104.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23275.9	0.0	23275.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	28380.0	0.0	28380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	1.2
10°-20°	1136.2	4.0
20°-30°	1985.7	7.0
30°-40°	2953.4	10.4
40°-50°	4351.5	15.3
50°-60°	6092.1	21.5
60°-70°	6813.8	24.0
70°-80°	4162.2	14.7
80°-90°	535.4	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°	28380.0	100.0
0°-180°	28380.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455080

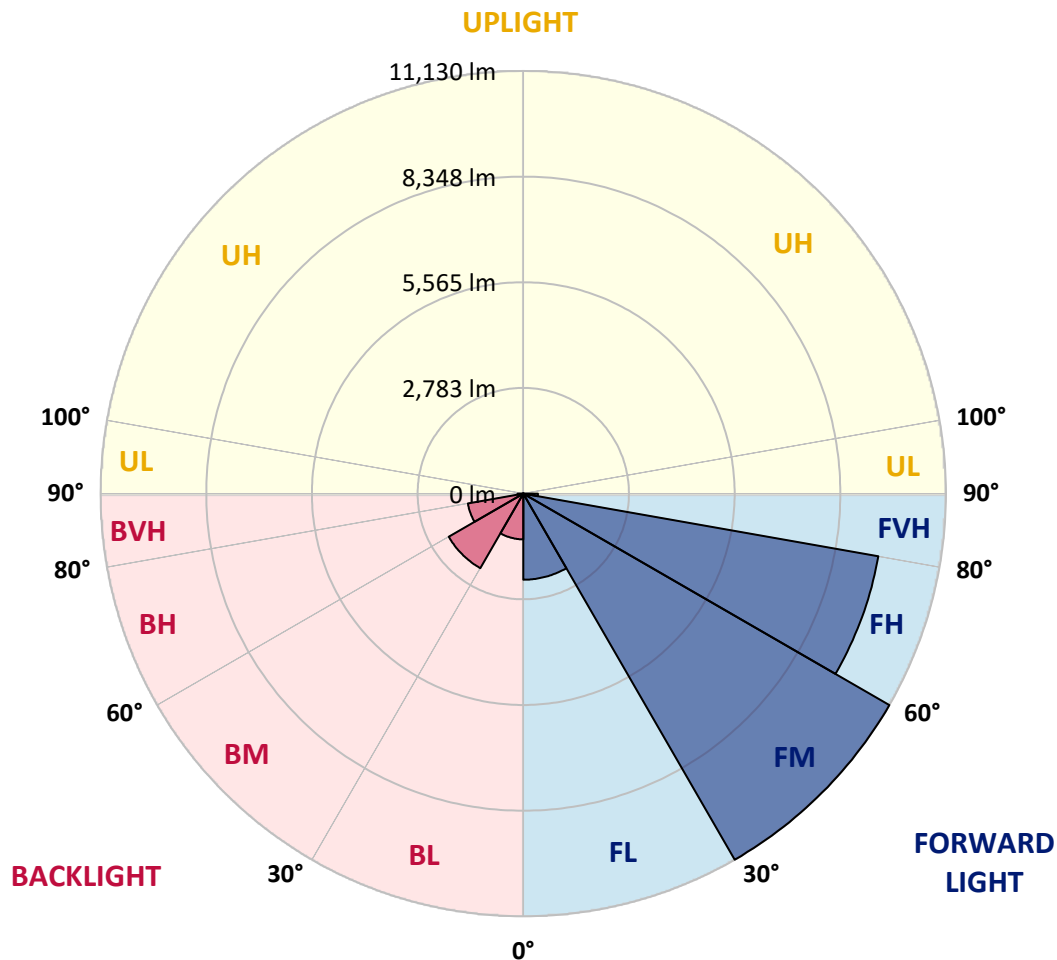
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2267.6	8.0			
FM	(30°-60°)	11130.1	39.2			
FH	(60°-80°)	9493.0	33.4			G4/12000
FVH	(80°-90°)	385.2	1.4			G3/500
BL	(0°-30°)	1204.0	4.2	B3/2500		
BM	(30°-60°)	2266.9	8.0	B2/2500		
BH	(60°-80°)	1483.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	150.2	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: P455080

CATALOG NUMBER: GALN-SA6B-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1
2.5°	3866.8	3848.1	3849.6	3823.1	3788.8	3751.4	3698.3	3651.5	3614.1	3592.3	3528.3
5°	4284.8	4266.1	4242.7	4185.0	4160.0	4068.0	3951.0	3845.0	3763.9	3718.6	3590.7
7.5°	4623.3	4618.6	4612.4	4579.6	4515.7	4387.8	4288.0	4103.9	3983.8	3898.0	3679.6
10°	4832.3	4840.1	4844.8	4851.1	4824.5	4757.5	4620.2	4387.8	4234.9	4125.7	3795.0
12.5°	4938.4	4946.2	4972.7	5030.4	5066.3	5058.5	4946.2	4718.5	4507.9	4364.4	3918.3
15°	5003.9	5016.4	5063.2	5139.6	5259.7	5336.2	5281.6	5071.0	4840.1	4670.1	4064.9
17.5°	5075.7	5089.7	5141.2	5250.4	5407.9	5573.2	5632.5	5451.6	5200.5	4997.7	4228.7
20°	5116.2	5134.9	5208.2	5351.8	5535.8	5776.0	5972.6	5877.4	5602.9	5378.3	4417.4
22.5°	5181.7	5197.3	5259.7	5412.6	5632.5	5933.6	6312.6	6292.3	6050.6	5760.4	4624.9
25°	5359.6	5384.5	5415.7	5507.7	5719.9	6094.2	6594.9	6735.3	6484.2	6159.7	4815.2
27.5°	5694.9	5715.2	5713.6	5726.1	5846.2	6233.1	6839.8	7173.6	6914.7	6563.7	4999.2
30°	6077.1	6084.9	6091.1	6063.0	6089.5	6375.0	7064.4	7607.3	7348.3	6978.6	5159.9
32.5°	6541.9	6557.5	6504.5	6432.7	6410.9	6585.6	7250.1	8040.9	7861.5	7399.8	5319.0
35°	7091.0	7131.5	7023.9	6897.5	6808.6	6888.2	7499.6	8483.9	8387.2	7937.9	5529.6
37.5°	7718.0	7767.9	7668.1	7420.1	7293.7	7315.6	7825.6	9031.4	9051.7	8551.0	5843.1
40°	8231.2	8296.7	8299.8	7948.9	7757.0	7782.0	8239.0	9621.0	9853.4	9309.0	6212.8
42.5°	8569.7	8633.6	8700.7	8494.8	8293.6	8435.5	8721.0	10260.5	10755.0	10229.3	6729.1
45°	8940.9	8998.6	9036.1	8942.5	8830.2	9198.3	9302.8	10940.6	11715.8	11257.2	7293.7
47.5°	9371.4	9435.4	9471.2	9382.3	9340.2	9867.4	9929.8	11575.4	12742.2	12255.5	7917.7
50°	9945.4	9993.8	9975.1	9918.9	9909.6	10380.6	10531.9	12169.7	13589.2	13330.2	8565.0
52.5°	10659.8	10717.5	10737.8	10658.3	10622.4	10747.2	11017.0	12711.0	14359.7	14253.7	9256.0
55°	11091.9	11183.9	11492.8	11617.6	11703.4	11221.4	11539.6	13308.4	15050.7	15227.0	9998.5
57.5°	10538.2	10656.7	11347.7	11971.6	12778.1	12406.8	12280.5	13932.3	15741.7	16170.7	10887.6
60°	9187.4	9213.9	10104.5	11254.1	12876.3	13930.8	13826.3	14924.4	16490.5	17122.2	12059.0
62.5°	6373.4	6429.6	7482.5	9316.8	11662.8	14479.8	16456.1	16637.1	17563.6	18546.3	13776.4
65°	3286.5	3213.2	4172.5	5855.6	8792.7	13175.8	18586.9	19786.4	19890.9	20773.7	16194.1
67.5°	2023.1	2055.8	2505.1	3419.1	5198.9	9575.8	18363.8	23634.4	23083.8	23508.1	18438.7
70°	1519.3	1559.8	1868.7	2339.7	3169.6	5475.0	14768.4	24567.2	25336.2	25227.0	19121.9
71°	1321.2	1363.3	1684.6	2129.2	2662.6	4225.6	12442.7	23590.8	25414.2	25395.5	18864.5
72.5°	1126.2	1152.7	1403.8	1803.2	2244.6	2962.1	9348.0	21157.4	24330.1	24952.5	17945.8
75°	884.4	904.7	1017.0	1375.8	1767.3	1818.8	5016.4	15861.8	19982.9	21168.4	14940.0
77.5°	720.6	734.7	792.4	1021.7	1363.3	1288.4	2631.4	10324.5	12519.1	13712.4	8800.5
80°	572.5	588.1	622.4	692.6	1021.7	918.7	1255.7	5231.6	6047.4	6035.0	3512.7
82.5°	444.5	449.2	489.8	508.5	698.8	652.0	680.1	2214.9	2453.6	2534.7	1268.1
85°	280.8	294.8	433.6	390.0	418.0	382.2	335.4	879.7	1084.1	1068.5	506.9
87.5°	85.8	90.5	146.6	165.3	185.6	166.9	123.2	258.9	316.6	343.2	126.3
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: P455080
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1	3483.1
2.5°	3503.4	3486.2	3425.4	3375.5	3328.7	3277.2	3233.5	3221.0	3210.1	3205.4	3203.9
5°	3536.1	3484.6	3364.5	3266.3	3188.3	3116.5	3071.3	3051.0	3030.7	3030.7	3037.0
7.5°	3582.9	3489.3	3303.7	3157.1	3058.8	2991.7	2959.0	2955.9	2960.5	2965.2	2966.8
10°	3634.4	3486.2	3214.8	3032.3	2944.9	2913.7	2915.3	2941.8	2966.8	2985.5	2988.6
12.5°	3684.3	3467.5	3110.3	2915.3	2859.2	2865.4	2909.1	2968.3	3016.7	3043.2	3044.8
15°	3740.5	3437.9	2983.9	2804.6	2785.8	2834.2	2915.3	3005.8	3079.1	3122.8	3127.4
17.5°	3787.3	3387.9	2851.4	2696.9	2720.3	2809.2	2921.5	3038.5	3127.4	3182.0	3191.4
20°	3840.3	3324.0	2714.1	2594.0	2661.1	2781.2	2909.1	3035.4	3127.4	3180.5	3193.0
22.5°	3882.4	3233.5	2583.1	2509.8	2608.0	2746.8	2867.0	2968.3	3043.2	3071.3	3090.0
25°	3899.6	3119.6	2459.8	2441.1	2565.9	2690.7	2771.8	2829.5	2852.9	2849.8	2857.6
27.5°	3890.2	2988.6	2353.8	2386.5	2512.9	2603.3	2643.9	2639.2	2597.1	2558.1	2576.8
30°	3851.2	2832.6	2264.9	2330.4	2444.2	2494.2	2487.9	2427.1	2347.5	2274.2	2278.9
32.5°	3781.0	2664.2	2182.2	2266.4	2347.5	2369.4	2327.3	2247.7	2133.8	2038.7	2024.7
35°	3721.7	2503.5	2108.9	2193.1	2250.8	2239.9	2199.4	2096.4	1993.5	1909.2	1895.2
37.5°	3712.4	2366.3	2038.7	2110.4	2143.2	2127.6	2077.7	1990.3	1952.9	1888.9	1881.1
40°	3762.3	2269.5	1966.9	2023.1	2038.7	2026.2	1971.6	1921.7	1956.0	1940.4	1940.4
42.5°	3898.0	2218.1	1903.0	1935.7	1948.2	1957.6	1918.6	1876.5	1918.6	1846.8	1823.4
45°	4113.3	2219.6	1845.3	1850.0	1887.4	1920.1	1893.6	1831.2	1809.4	1665.9	1637.8
47.5°	4429.9	2272.7	1798.5	1768.8	1835.9	1890.5	1853.1	1762.6	1665.9	1570.7	1553.6
50°	4799.6	2367.8	1756.4	1684.6	1767.3	1853.1	1825.0	1718.9	1619.1	1561.4	1550.5
52.5°	5209.8	2487.9	1704.9	1591.0	1683.0	1835.9	1831.2	1712.7	1575.4	1536.4	1527.1
55°	5716.8	2606.5	1640.9	1481.8	1608.2	1821.9	1814.1	1661.2	1566.1	1538.0	1534.9
57.5°	6306.4	2778.0	1548.9	1371.1	1522.4	1764.2	1747.0	1630.0	1534.9	1514.6	1513.0
60°	7256.3	3044.8	1417.9	1269.7	1435.0	1662.8	1684.6	1577.0	1485.0	1480.3	1478.7
62.5°	8505.7	3419.1	1282.2	1165.2	1333.6	1531.7	1594.1	1505.2	1431.9	1455.3	1458.4
65°	10230.9	3734.2	1141.8	1076.3	1221.3	1405.4	1508.3	1438.2	1372.6	1417.9	1417.9
67.5°	11355.5	3740.5	1013.9	984.2	1107.5	1299.3	1417.9	1358.6	1296.2	1372.6	1375.8
70°	11121.5	3277.2	907.8	887.5	996.7	1185.5	1318.1	1271.3	1199.5	1268.1	1243.2
71°	10744.1	3019.8	865.7	850.1	953.1	1130.9	1271.3	1232.3	1160.5	1205.7	1191.7
72.5°	10142.0	2622.1	797.1	800.2	887.5	1062.2	1205.7	1165.2	1093.4	1118.4	1113.7
75°	8572.8	2289.8	681.6	695.7	762.8	945.3	1074.7	1043.5	970.2	970.2	965.5
77.5°	5359.6	1600.4	566.2	574.0	647.3	809.5	923.4	896.9	826.7	803.3	797.1
80°	1999.7	826.7	443.0	452.3	497.6	638.0	764.3	739.4	667.6	641.1	616.1
82.5°	756.5	414.9	326.0	318.2	366.6	486.7	599.0	569.3	513.2	449.2	430.5
85°	285.4	205.9	199.7	193.4	215.3	288.6	371.2	365.0	305.7	260.5	255.8
87.5°	74.9	67.1	78.0	57.7	60.8	54.6	56.2	23.4	10.9	4.7	3.1
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)