

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: P454210

Luminaire Tested: **GALN-SA5B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454210
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-SA5B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28658 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

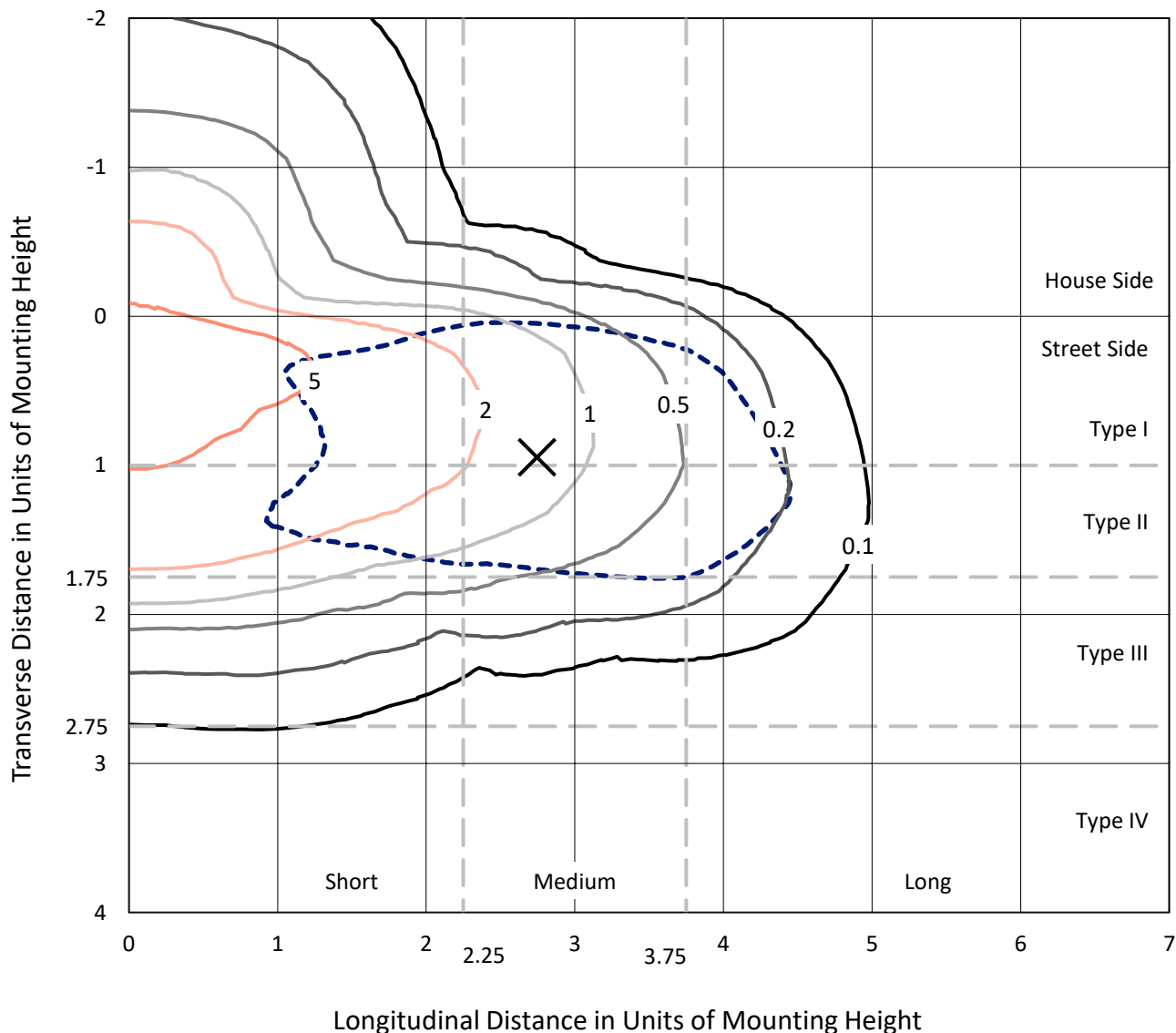
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

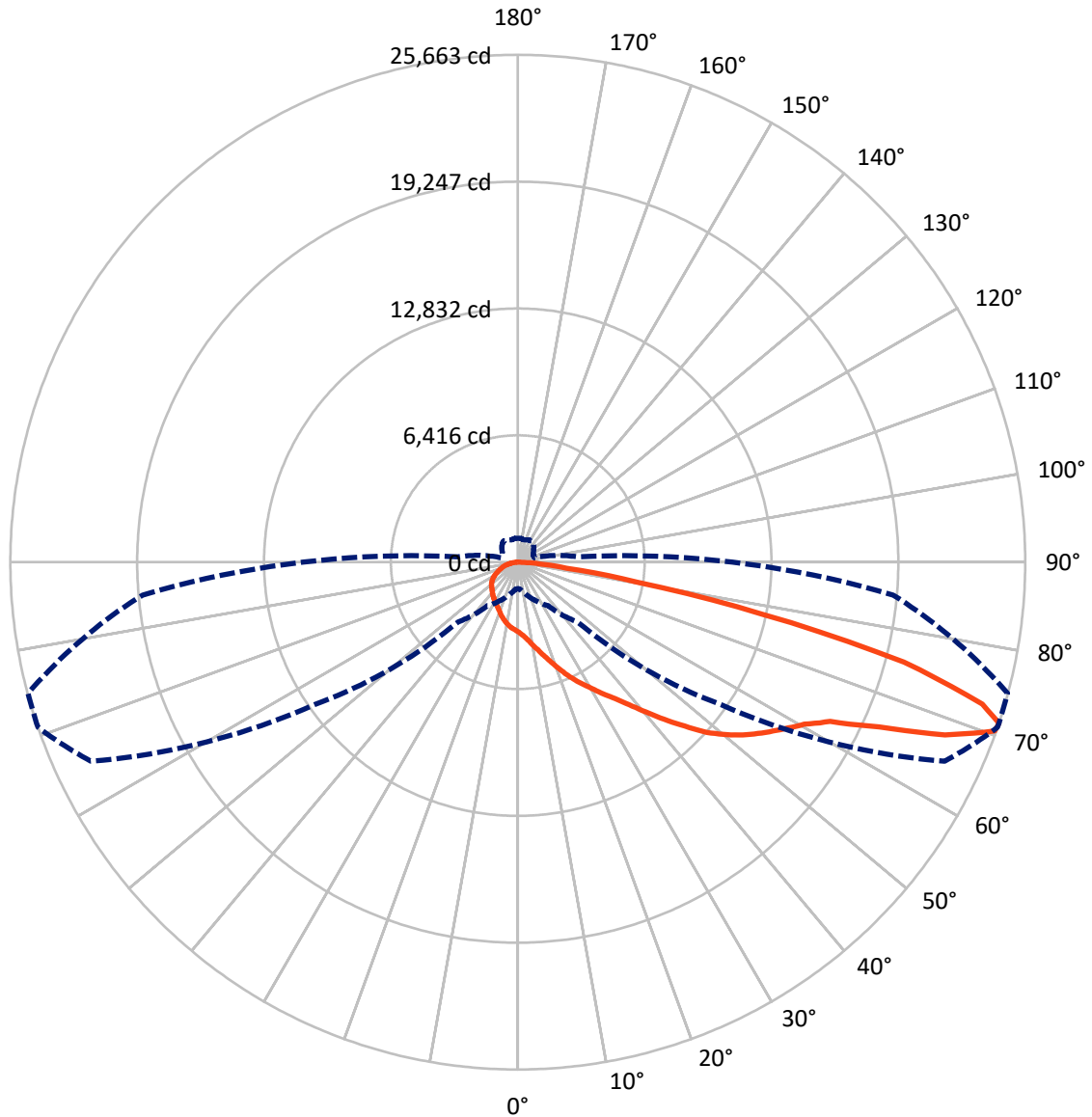
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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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	5154.1	0.0	5154.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23503.9	0.0	23503.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	28658.0	0.0	28658.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.2	1.2
10°-20°	1147.4	4.0
20°-30°	2005.1	7.0
30°-40°	2982.3	10.4
40°-50°	4394.1	15.3
50°-60°	6151.8	21.5
60°-70°	6880.6	24.0
70°-80°	4202.9	14.7
80°-90°	540.7	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°	28658.0	100.0
0°-180°	28658.0	100.0



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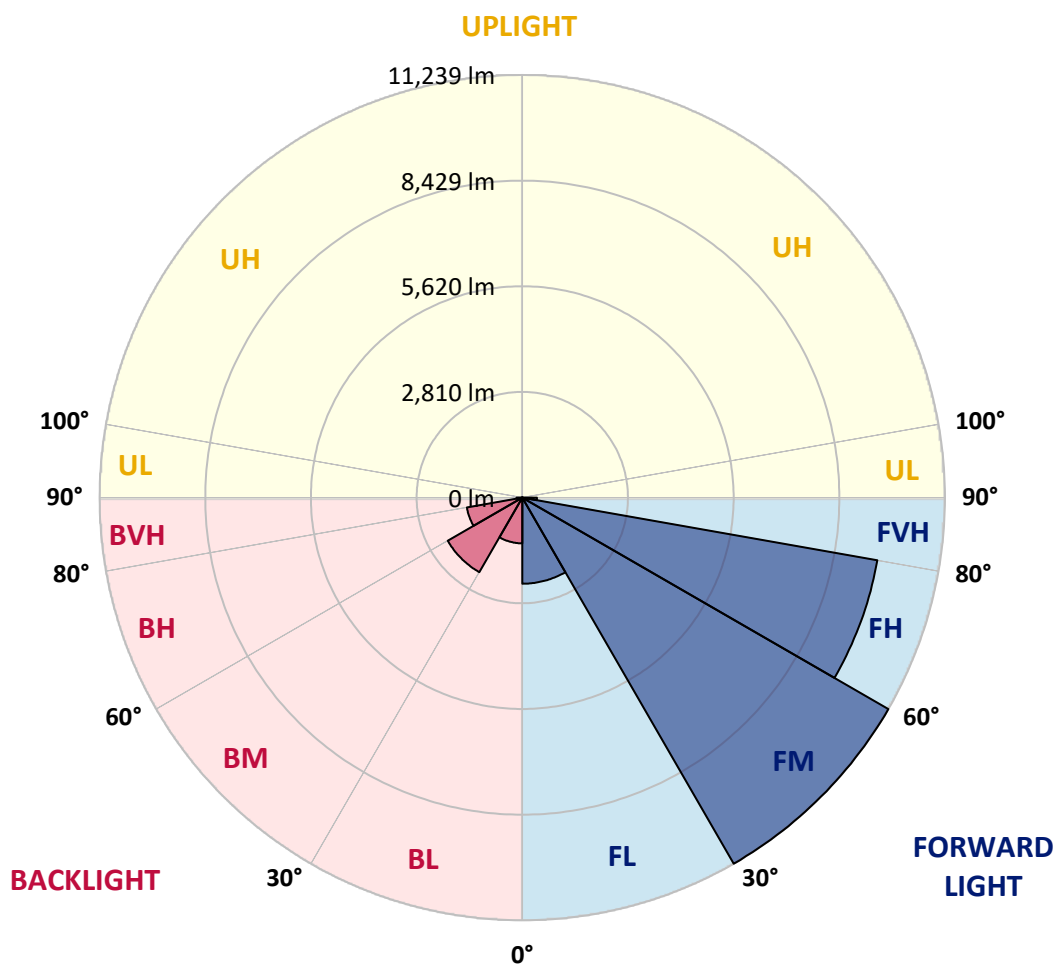
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.8	8.0			
FM	(30°-60°)	11239.1	39.2			
FH	(60°-80°)	9586.0	33.4			G4/12000
FVH	(80°-90°)	389.0	1.4			G3/500
BL	(0°-30°)	1215.8	4.2	B3/2500		
BM	(30°-60°)	2289.1	8.0	B2/2500		
BH	(60°-80°)	1497.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	151.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2
2.5°	3904.7	3885.8	3887.4	3860.6	3825.9	3788.1	3734.6	3687.3	3649.5	3627.5	3562.9
5°	4326.8	4307.9	4284.3	4226.0	4200.8	4107.9	3989.7	3882.6	3800.7	3755.0	3625.9
7.5°	4668.6	4663.9	4657.6	4624.5	4559.9	4430.8	4330.0	4144.1	4022.8	3936.2	3715.7
10°	4879.7	4887.5	4892.3	4898.6	4871.8	4804.1	4665.5	4430.8	4276.4	4166.1	3832.2
12.5°	4986.8	4994.7	5021.4	5079.7	5115.9	5108.1	4994.7	4764.7	4552.0	4407.1	3956.7
15°	5052.9	5065.5	5112.8	5190.0	5311.2	5388.4	5333.3	5120.7	4887.5	4715.9	4104.7
17.5°	5125.4	5139.6	5191.5	5301.8	5460.9	5627.8	5687.7	5505.0	5251.4	5046.6	4270.1
20°	5166.3	5185.2	5259.3	5404.2	5590.0	5832.6	6031.1	5935.0	5657.8	5431.0	4460.7
22.5°	5232.5	5248.2	5311.2	5465.6	5687.7	5991.7	6374.4	6354.0	6109.8	5816.9	4670.2
25°	5412.1	5437.3	5468.8	5561.7	5775.9	6153.9	6659.5	6801.3	6547.7	6220.1	4862.3
27.5°	5750.7	5771.2	5769.6	5782.2	5903.5	6294.1	6906.8	7243.9	6982.4	6628.0	5048.2
30°	6136.6	6144.5	6150.8	6122.4	6149.2	6437.4	7133.6	7681.8	7420.3	7047.0	5210.4
32.5°	6606.0	6621.7	6568.2	6495.7	6473.7	6650.1	7321.1	8119.7	7938.5	7472.3	5371.1
35°	7160.4	7201.4	7092.7	6965.1	6875.3	6955.7	7573.1	8567.0	8469.3	8015.7	5583.7
37.5°	7793.6	7844.0	7743.2	7492.8	7365.2	7387.2	7902.3	9119.8	9140.3	8634.7	5900.3
40°	8311.8	8378.0	8381.1	8026.7	7833.0	7858.2	8319.7	9715.2	9949.9	9400.2	6273.6
42.5°	8653.6	8718.2	8785.9	8578.0	8374.8	8518.2	8806.4	10361.0	10860.3	10329.5	6795.0
45°	9028.5	9086.8	9124.6	9030.1	8916.7	9288.4	9393.9	11047.8	11830.6	11367.5	7365.2
47.5°	9463.2	9527.8	9564.0	9474.2	9431.7	9964.1	10027.1	11688.8	12867.0	12375.6	7995.2
50°	10042.9	10091.7	10072.8	10016.1	10006.6	10482.3	10635.1	12289.0	13722.3	13460.8	8648.9
52.5°	10764.3	10822.5	10843.0	10762.7	10726.4	10852.5	11125.0	12835.5	14500.4	14393.3	9346.7
55°	11200.6	11293.5	11605.4	11731.4	11818.0	11331.3	11652.6	13438.8	15198.2	15376.2	10096.4
57.5°	10641.4	10761.1	11458.9	12088.9	12903.2	12528.4	12400.8	14068.8	15895.9	16329.1	10994.2
60°	9277.4	9304.1	10203.5	11364.4	13002.5	14067.2	13961.7	15070.6	16652.0	17289.9	12177.1
62.5°	6435.9	6492.6	7555.8	9408.1	11777.0	14621.7	16617.3	16800.0	17735.7	18728.0	13911.3
65°	3318.7	3244.7	4213.4	5912.9	8878.9	13304.9	18768.9	19980.2	20085.7	20977.2	16352.7
67.5°	2042.9	2076.0	2529.6	3452.6	5249.8	9669.6	18543.7	23866.0	23309.9	23738.4	18619.3
70°	1534.1	1575.1	1887.0	2362.7	3200.6	5528.6	14913.1	24807.9	25584.4	25474.1	19309.2
71°	1334.1	1376.6	1701.1	2150.0	2688.7	4267.0	12564.6	23821.9	25663.1	25644.2	19049.3
72.5°	1137.2	1164.0	1417.6	1820.8	2266.6	2991.1	9439.6	21364.7	24568.5	25196.9	18121.6
75°	893.1	913.6	1027.0	1389.2	1784.6	1836.6	5065.5	16017.2	20178.6	21375.7	15086.3
77.5°	727.7	741.9	800.2	1031.7	1376.6	1301.0	2657.2	10425.6	12641.8	13846.7	8886.7
80°	578.1	593.8	628.5	699.3	1031.7	927.7	1268.0	5282.9	6106.7	6094.1	3547.1
82.5°	448.9	453.6	494.6	513.5	705.6	658.4	686.7	2236.6	2477.6	2559.5	1280.6
85°	283.5	297.7	437.9	393.8	422.1	385.9	338.6	888.4	1094.7	1078.9	511.9
87.5°	86.6	91.4	148.1	167.0	187.4	168.5	124.4	261.5	319.7	346.5	127.6
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°	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2	3517.2
2.5°	3537.7	3520.4	3458.9	3408.5	3361.3	3309.3	3265.2	3252.6	3241.6	3236.8	3235.3
5°	3570.8	3518.8	3397.5	3298.3	3219.5	3147.1	3101.4	3080.9	3060.4	3060.4	3066.7
7.5°	3618.0	3523.5	3336.1	3188.0	3088.8	3021.0	2988.0	2984.8	2989.5	2994.3	2995.8
10°	3670.0	3520.4	3246.3	3062.0	2973.8	2942.3	2943.9	2970.6	2995.8	3014.7	3017.9
12.5°	3720.4	3501.5	3140.8	2943.9	2887.2	2893.5	2937.6	2997.4	3046.2	3073.0	3074.6
15°	3777.1	3471.5	3013.2	2832.0	2813.1	2862.0	2943.9	3035.2	3109.3	3153.4	3158.1
17.5°	3824.3	3421.1	2879.3	2723.4	2747.0	2836.8	2950.2	3068.3	3158.1	3213.2	3222.7
20°	3877.9	3356.5	2740.7	2619.4	2687.1	2808.4	2937.6	3065.1	3158.1	3211.6	3224.2
22.5°	3920.4	3265.2	2608.4	2534.3	2633.6	2773.8	2895.0	2997.4	3073.0	3101.4	3120.3
25°	3937.8	3150.2	2483.9	2465.0	2591.0	2717.1	2799.0	2857.2	2880.9	2877.7	2885.6
27.5°	3928.3	3017.9	2376.8	2409.9	2537.5	2628.8	2669.8	2665.1	2622.5	2583.2	2602.1
30°	3888.9	2860.4	2287.0	2353.2	2468.2	2518.6	2512.3	2450.9	2370.5	2296.5	2301.2
32.5°	3818.0	2690.3	2203.6	2288.6	2370.5	2392.6	2350.1	2269.7	2154.7	2058.7	2044.5
35°	3758.2	2528.0	2129.5	2214.6	2272.9	2261.8	2220.9	2116.9	2013.0	1927.9	1913.7
37.5°	3748.7	2389.4	2058.7	2131.1	2164.2	2148.4	2098.0	2009.8	1972.0	1907.4	1899.6
40°	3799.1	2291.8	1986.2	2042.9	2058.7	2046.1	1990.9	1940.5	1975.2	1959.4	1959.4
42.5°	3936.2	2239.8	1921.6	1954.7	1967.3	1976.8	1937.4	1894.8	1937.4	1864.9	1841.3
45°	4153.5	2241.4	1863.3	1868.1	1905.9	1939.0	1912.2	1849.2	1827.1	1682.2	1653.9
47.5°	4473.3	2294.9	1816.1	1786.2	1853.9	1909.0	1871.2	1779.9	1682.2	1586.1	1568.8
50°	4846.6	2391.0	1773.6	1701.1	1784.6	1871.2	1842.9	1735.8	1635.0	1576.7	1565.7
52.5°	5260.8	2512.3	1721.6	1606.6	1699.5	1853.9	1849.2	1729.5	1590.9	1551.5	1542.0
55°	5772.8	2632.0	1657.0	1496.3	1623.9	1839.7	1831.8	1677.5	1581.4	1553.1	1549.9
57.5°	6368.1	2805.3	1564.1	1384.5	1537.3	1781.4	1764.1	1646.0	1549.9	1529.4	1527.8
60°	7327.4	3074.6	1431.8	1282.1	1449.1	1679.1	1701.1	1592.4	1499.5	1494.8	1493.2
62.5°	8589.0	3452.6	1294.7	1176.6	1346.7	1546.8	1609.8	1520.0	1445.9	1469.6	1472.7
65°	10331.1	3770.8	1153.0	1086.8	1233.3	1419.2	1523.1	1452.2	1386.1	1431.8	1431.8
67.5°	11466.7	3777.1	1023.8	993.9	1118.3	1312.1	1431.8	1371.9	1308.9	1386.1	1389.2
70°	11230.5	3309.3	916.7	896.2	1006.5	1197.1	1331.0	1283.7	1211.3	1280.6	1255.4
71°	10849.3	3049.4	874.2	858.4	962.4	1141.9	1283.7	1244.3	1171.9	1217.6	1203.4
72.5°	10241.3	2647.7	804.9	808.0	896.2	1072.6	1217.6	1176.6	1104.1	1129.3	1124.6
75°	8656.8	2312.3	688.3	702.5	770.2	954.5	1085.2	1053.7	979.7	979.7	975.0
77.5°	5412.1	1616.1	571.8	579.6	653.7	817.5	932.5	905.7	834.8	811.2	804.9
80°	2019.3	834.8	447.3	456.8	502.5	644.2	771.8	746.6	674.1	647.4	622.2
82.5°	763.9	419.0	329.2	321.3	370.1	491.4	604.8	574.9	518.2	453.6	434.7
85°	288.2	207.9	201.6	195.3	217.4	291.4	374.9	368.6	308.7	263.0	258.3
87.5°	75.6	67.7	78.8	58.3	61.4	55.1	56.7	23.6	11.0	4.7	3.2
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)