

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: P459024

Luminaire Tested: **GALN-SA5B-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459024
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-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26697 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

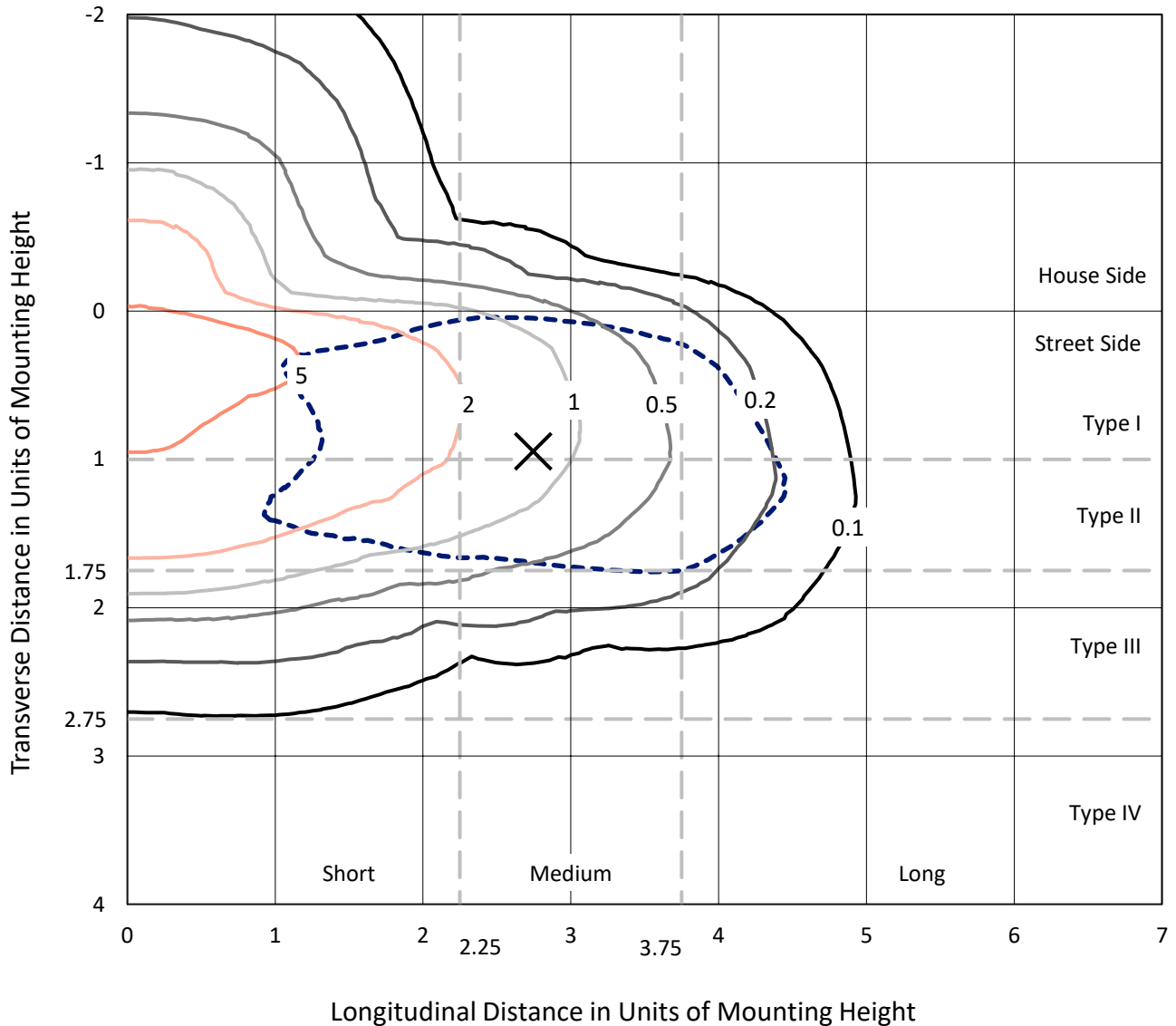
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

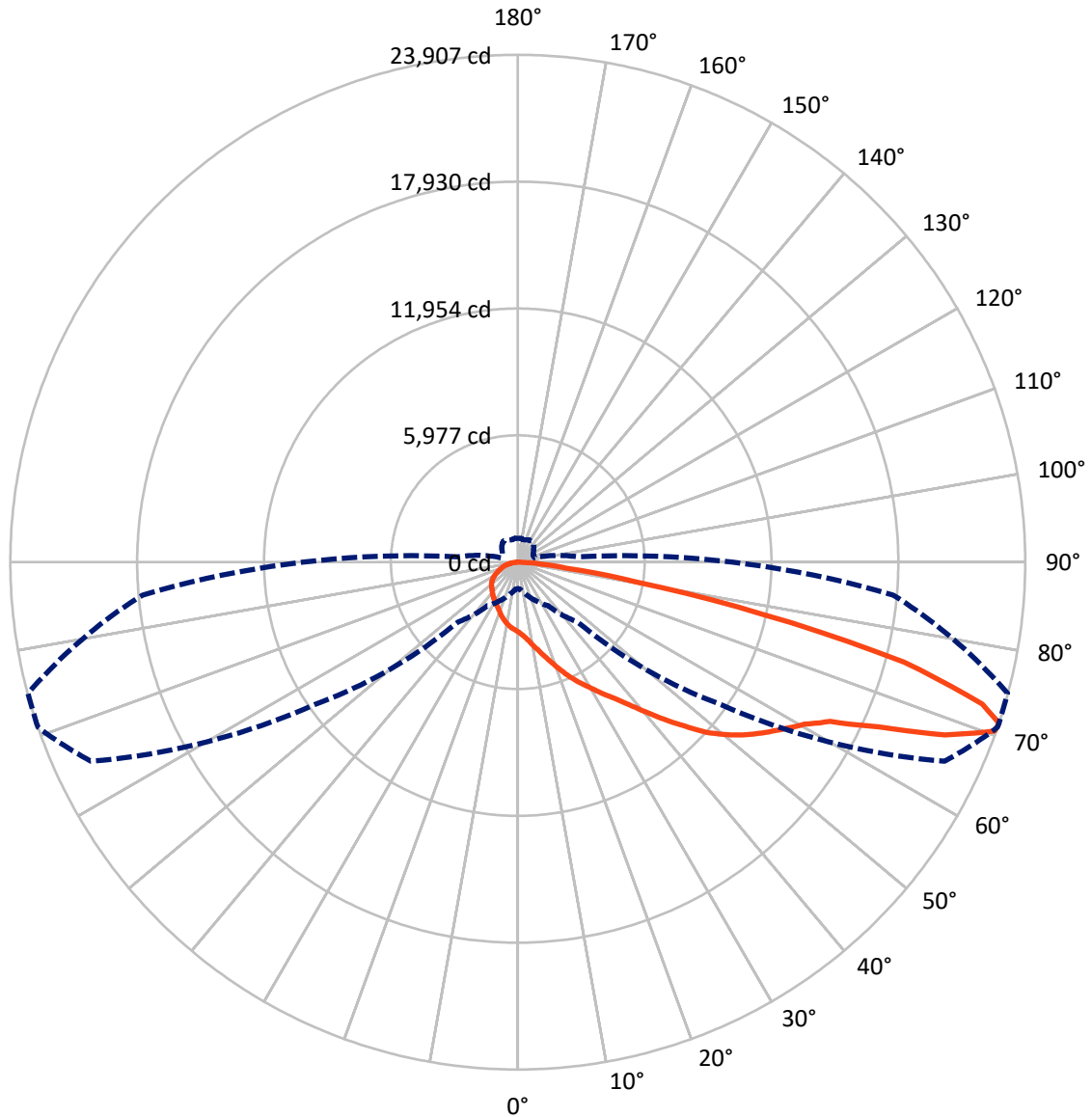
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	4801.4	0.0	4801.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	21895.6	0.0	21895.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	26697.0	0.0	26697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.2
10°-20°	1068.8	4.0
20°-30°	1867.9	7.0
30°-40°	2778.3	10.4
40°-50°	4093.4	15.3
50°-60°	5730.8	21.5
60°-70°	6409.8	24.0
70°-80°	3915.3	14.7
80°-90°	503.7	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°	26697.0	100.0
0°-180°	26697.0	100.0

Coefficient of Utilization



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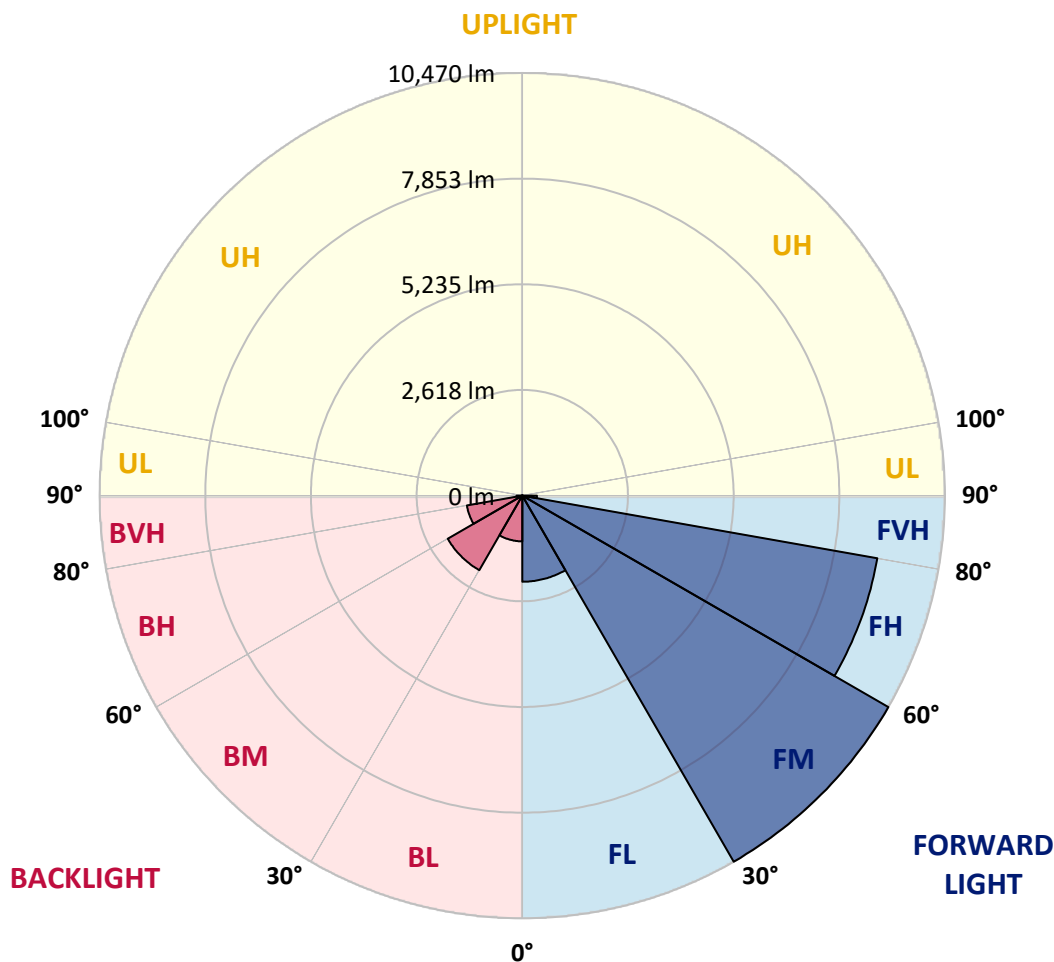
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2133.1	8.0			
FM	(30°-60°)	10470.0	39.2			
FH	(60°-80°)	8930.1	33.4			G4/12000
FVH	(80°-90°)	362.4	1.4			G3/500
BL	(0°-30°)	1132.6	4.2	B3/2500		
BM	(30°-60°)	2132.5	8.0	B2/2500		
BH	(60°-80°)	1395.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	141.3	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°	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5
2.5°	3637.5	3619.9	3621.4	3596.4	3564.1	3528.9	3479.0	3435.0	3399.8	3379.2	3319.1
5°	4030.7	4013.1	3991.1	3936.8	3913.3	3826.8	3716.7	3616.9	3540.6	3498.1	3377.8
7.5°	4349.1	4344.7	4338.9	4308.1	4247.9	4127.6	4033.7	3860.5	3747.5	3666.8	3461.4
10°	4545.8	4553.1	4557.5	4563.4	4538.4	4475.3	4346.2	4127.6	3983.8	3881.1	3570.0
12.5°	4645.5	4652.9	4677.8	4732.1	4765.9	4758.5	4652.9	4438.6	4240.6	4105.6	3685.9
15°	4707.2	4718.9	4762.9	4834.8	4947.8	5019.7	4968.4	4770.3	4553.1	4393.2	3823.8
17.5°	4774.7	4787.9	4836.3	4939.0	5087.2	5242.7	5298.5	5128.3	4892.1	4701.3	3977.9
20°	4812.8	4830.4	4899.4	5034.4	5207.5	5433.5	5618.4	5528.9	5270.6	5059.3	4155.5
22.5°	4874.4	4889.1	4947.8	5091.6	5298.5	5581.7	5938.3	5919.2	5691.7	5418.8	4350.6
25°	5041.7	5065.2	5094.5	5181.1	5380.7	5732.8	6203.8	6335.9	6099.7	5794.5	4529.6
27.5°	5357.2	5376.3	5374.8	5386.5	5499.5	5863.4	6434.2	6748.2	6504.6	6174.5	4702.8
30°	5716.7	5724.0	5729.9	5703.5	5728.4	5996.9	6645.5	7156.1	6912.6	6564.8	4853.9
32.5°	6153.9	6168.6	6118.7	6051.2	6030.7	6195.0	6820.1	7564.0	7395.3	6961.0	5003.6
35°	6670.4	6708.6	6607.4	6488.5	6404.9	6479.7	7054.9	7980.8	7889.8	7467.2	5201.7
37.5°	7260.3	7307.3	7213.4	6980.1	6861.2	6881.7	7361.6	8495.8	8514.9	8043.9	5496.6
40°	7743.1	7804.7	7807.6	7477.5	7297.0	7320.5	7750.4	9050.4	9269.1	8757.0	5844.3
42.5°	8061.5	8121.6	8184.7	7991.0	7801.8	7935.3	8203.8	9652.0	10117.2	9622.7	6330.0
45°	8410.7	8465.0	8500.2	8412.2	8306.5	8652.8	8751.1	10291.8	11021.1	10589.7	6861.2
47.5°	8815.7	8875.8	8909.6	8825.9	8786.3	9282.3	9341.0	10889.0	11986.6	11528.7	7448.1
50°	9355.6	9401.1	9383.5	9330.7	9321.9	9765.0	9907.4	11448.0	12783.3	12539.7	8057.1
52.5°	10027.7	10082.0	10101.0	10026.2	9992.5	10109.8	10363.7	11957.2	13508.2	13408.4	8707.1
55°	10434.1	10520.7	10811.2	10928.6	11009.3	10555.9	10855.2	12519.2	14158.2	14324.0	9405.5
57.5°	9913.2	10024.7	10674.8	11261.7	12020.3	11671.1	11552.2	13106.1	14808.2	15211.7	10241.9
60°	8642.5	8667.5	9505.3	10586.7	12112.7	13104.7	13006.3	14039.3	15512.5	16106.8	11343.9
62.5°	5995.5	6048.3	7038.7	8764.3	10971.2	13621.2	15480.2	15650.5	16522.0	17446.5	12959.4
65°	3091.6	3022.7	3925.1	5508.3	8271.3	12394.5	17484.6	18613.0	18711.3	19541.8	15233.7
67.5°	1903.1	1933.9	2356.5	3216.4	4890.6	9007.9	17274.8	22232.9	21714.9	22114.0	17345.2
70°	1429.2	1467.3	1757.9	2201.0	2981.6	5150.3	13892.6	23110.3	23833.7	23731.0	17987.9
71°	1242.8	1282.4	1584.7	2002.9	2504.7	3975.0	11704.8	22191.8	23907.1	23889.5	17745.8
72.5°	1059.4	1084.4	1320.6	1696.2	2111.5	2786.4	8793.7	19902.8	22887.3	23472.8	16881.5
75°	832.0	851.0	956.7	1294.2	1662.5	1710.9	4718.9	14921.2	18797.9	19913.0	14054.0
77.5°	677.9	691.1	745.4	961.1	1282.4	1212.0	2475.4	9712.2	11776.7	12899.2	8278.6
80°	538.5	553.2	585.5	651.5	961.1	864.3	1181.2	4921.4	5688.8	5677.1	3304.4
82.5°	418.2	422.6	460.7	478.3	657.4	613.3	639.8	2083.6	2308.1	2384.4	1192.9
85°	264.1	277.3	407.9	366.8	393.2	359.5	315.5	827.6	1019.8	1005.1	476.9
87.5°	80.7	85.1	137.9	155.5	174.6	157.0	115.9	243.6	297.9	322.8	118.9
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°	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5	3276.5
2.5°	3295.6	3279.5	3222.2	3175.3	3131.3	3082.8	3041.8	3030.0	3019.7	3015.3	3013.9
5°	3326.4	3278.0	3165.0	3072.6	2999.2	2931.7	2889.2	2870.1	2851.0	2851.0	2856.9
7.5°	3370.4	3282.4	3107.8	2969.9	2877.4	2814.3	2783.5	2780.6	2785.0	2789.4	2790.8
10°	3418.9	3279.5	3024.2	2852.5	2770.3	2741.0	2742.4	2767.4	2790.8	2808.5	2811.4
12.5°	3465.8	3261.9	2925.8	2742.4	2689.6	2695.5	2736.6	2792.3	2837.8	2862.7	2864.2
15°	3518.6	3234.0	2807.0	2638.2	2620.6	2666.1	2742.4	2827.5	2896.5	2937.6	2942.0
17.5°	3562.7	3187.0	2682.3	2537.0	2559.0	2642.6	2748.3	2858.3	2942.0	2993.3	3002.1
20°	3612.5	3126.9	2553.1	2440.2	2503.3	2616.2	2736.6	2855.4	2942.0	2991.9	3003.6
22.5°	3652.2	3041.8	2429.9	2360.9	2453.4	2584.0	2696.9	2792.3	2862.7	2889.2	2906.8
25°	3668.3	2934.6	2314.0	2296.4	2413.7	2531.1	2607.4	2661.7	2683.7	2680.8	2688.1
27.5°	3659.5	2811.4	2214.2	2245.0	2363.9	2449.0	2487.1	2482.7	2443.1	2406.4	2424.0
30°	3622.8	2664.7	2130.6	2192.2	2299.3	2346.2	2340.4	2283.2	2208.3	2139.4	2143.8
32.5°	3556.8	2506.2	2052.8	2132.0	2208.3	2228.9	2189.2	2114.4	2007.3	1917.8	1904.6
35°	3501.0	2355.1	1983.8	2063.1	2117.3	2107.1	2068.9	1972.1	1875.2	1796.0	1782.8
37.5°	3492.2	2225.9	1917.8	1985.3	2016.1	2001.4	1954.5	1872.3	1837.1	1776.9	1769.6
40°	3539.2	2135.0	1850.3	1903.1	1917.8	1906.1	1854.7	1807.7	1840.0	1825.3	1825.3
42.5°	3666.8	2086.5	1790.1	1820.9	1832.7	1841.5	1804.8	1765.2	1804.8	1737.3	1715.3
45°	3869.3	2088.0	1735.8	1740.2	1775.5	1806.3	1781.3	1722.6	1702.1	1567.1	1540.7
47.5°	4167.2	2137.9	1691.8	1663.9	1727.0	1778.4	1743.2	1658.1	1567.1	1477.6	1461.5
50°	4514.9	2227.4	1652.2	1584.7	1662.5	1743.2	1716.8	1617.0	1523.1	1468.8	1458.5
52.5°	4900.9	2340.4	1603.8	1496.7	1583.2	1727.0	1722.6	1611.1	1482.0	1445.3	1436.5
55°	5377.7	2451.9	1543.6	1394.0	1512.8	1713.8	1706.5	1562.7	1473.2	1446.8	1443.8
57.5°	5932.4	2613.3	1457.1	1289.8	1432.1	1659.5	1643.4	1533.4	1443.8	1424.8	1423.3
60°	6826.0	2864.2	1333.8	1194.4	1349.9	1564.2	1584.7	1483.5	1396.9	1392.5	1391.0
62.5°	8001.3	3216.4	1206.1	1096.1	1254.6	1440.9	1499.6	1416.0	1347.0	1369.0	1371.9
65°	9624.2	3512.8	1074.1	1012.5	1148.9	1322.1	1418.9	1352.9	1291.2	1333.8	1333.8
67.5°	10682.1	3518.6	953.8	925.9	1041.8	1222.3	1333.8	1278.0	1219.3	1291.2	1294.2
70°	10462.0	3082.8	854.0	834.9	937.6	1115.2	1239.9	1195.9	1128.4	1192.9	1169.5
71°	10106.9	2840.7	814.4	799.7	896.5	1063.8	1195.9	1159.2	1091.7	1134.2	1121.0
72.5°	9540.5	2466.6	749.8	752.7	834.9	999.2	1134.2	1096.1	1028.6	1052.1	1047.7
75°	8064.4	2154.0	641.2	654.4	717.5	889.2	1011.0	981.6	912.7	912.7	908.3
77.5°	5041.7	1505.5	532.6	540.0	608.9	761.5	868.7	843.7	777.7	755.7	749.8
80°	1881.1	777.7	416.7	425.5	468.1	600.1	719.0	695.5	628.0	603.1	579.6
82.5°	711.7	390.3	306.7	299.3	344.8	457.8	563.5	535.6	482.7	422.6	405.0
85°	268.5	193.7	187.8	181.9	202.5	271.5	349.2	343.4	287.6	245.0	240.6
87.5°	70.4	63.1	73.4	54.3	57.2	51.4	52.8	22.0	10.3	4.4	2.9
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)