

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: P459003

Luminaire Tested: **GALN-SA5A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21287 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

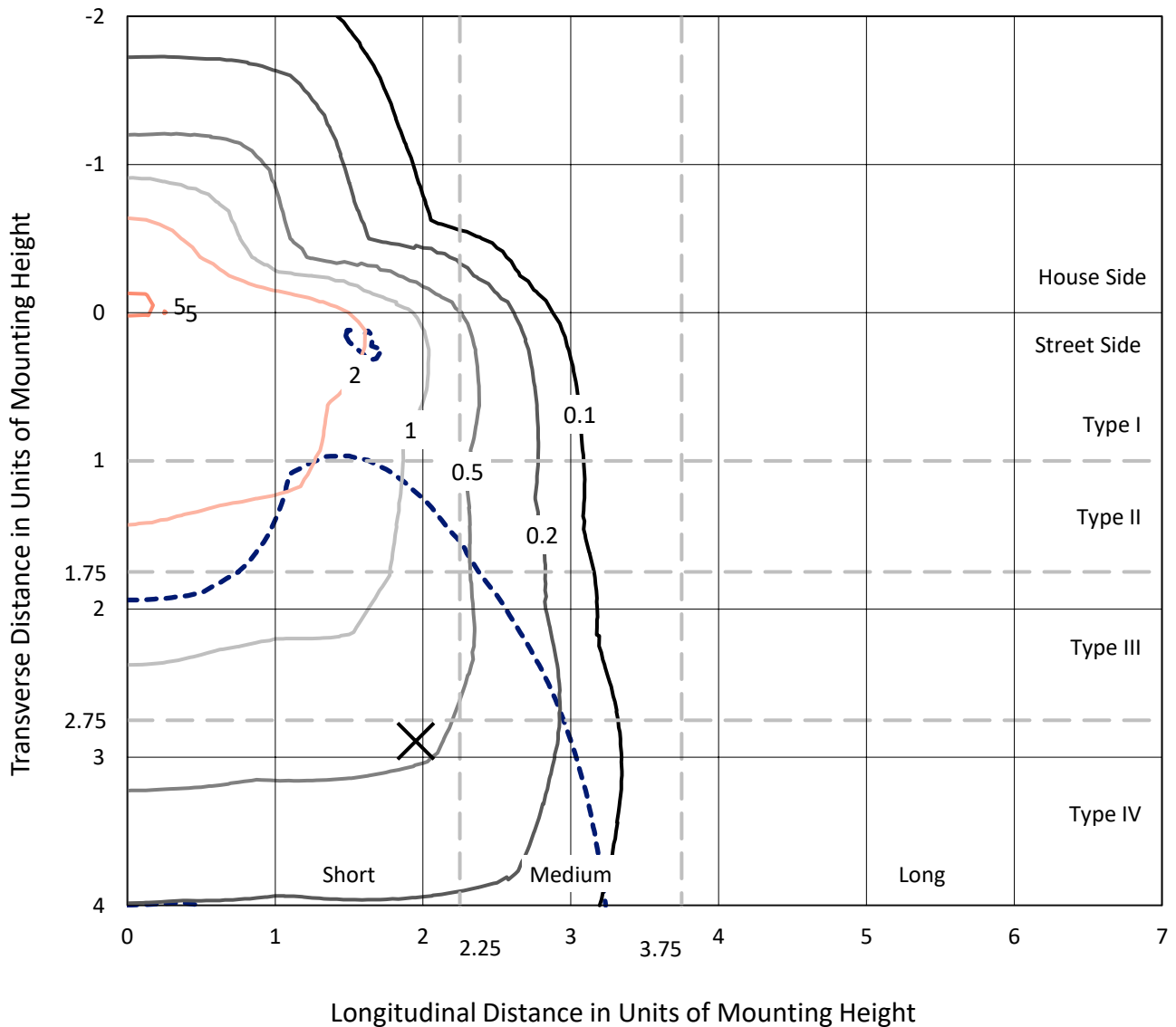
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

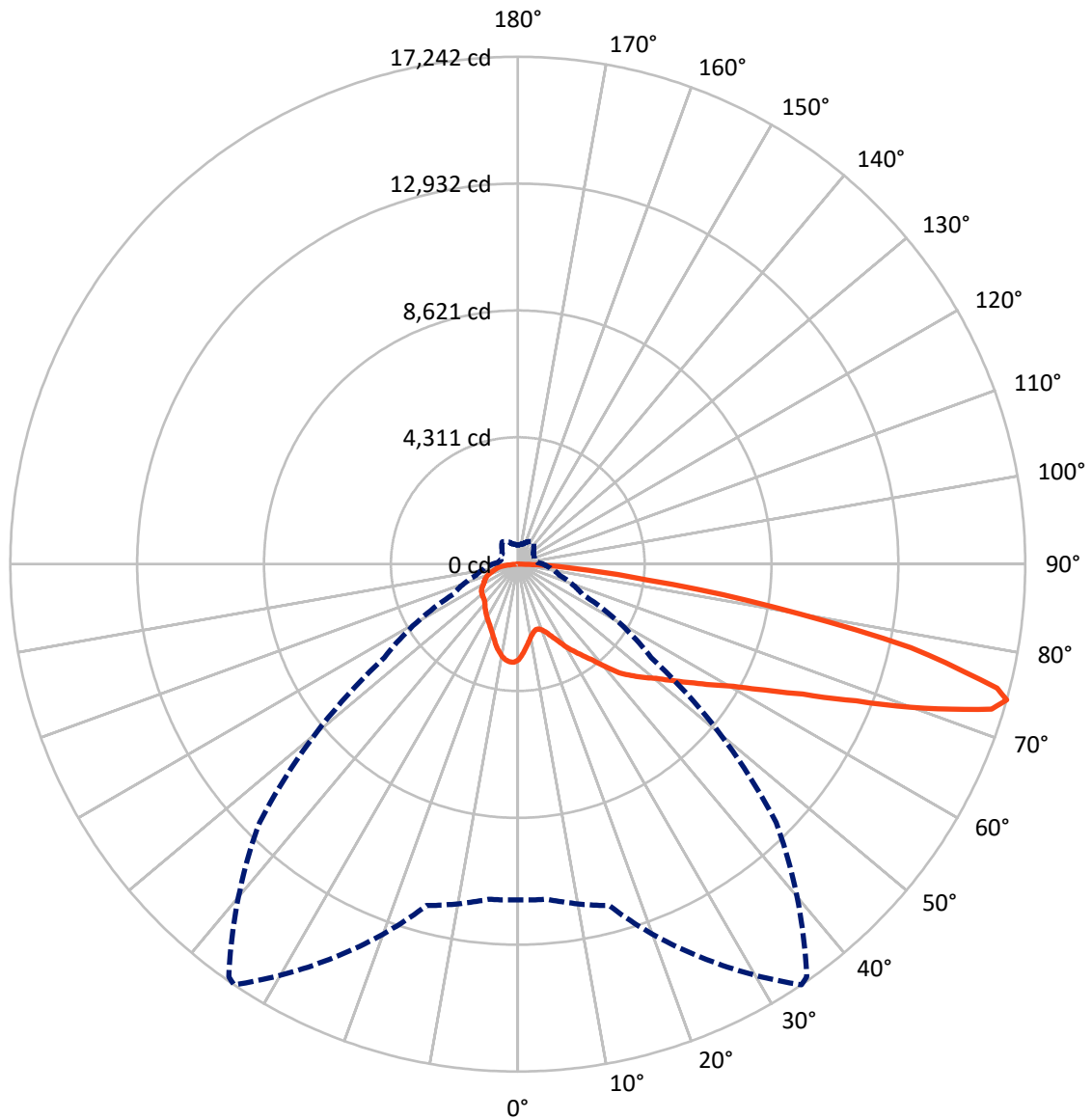
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4530.0	0.0	4530.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16757.0	0.0	16757.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	21287.0	0.0	21287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.4
10°-20°	809.1	3.8
20°-30°	1334.1	6.3
30°-40°	1998.3	9.4
40°-50°	2905.0	13.6
50°-60°	4057.5	19.1
60°-70°	5079.8	23.9
70°-80°	4200.6	19.7
80°-90°	607.0	2.9
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°	21287.0	100.0
0°-180°	21287.0	100.0

Coefficient of Utilization



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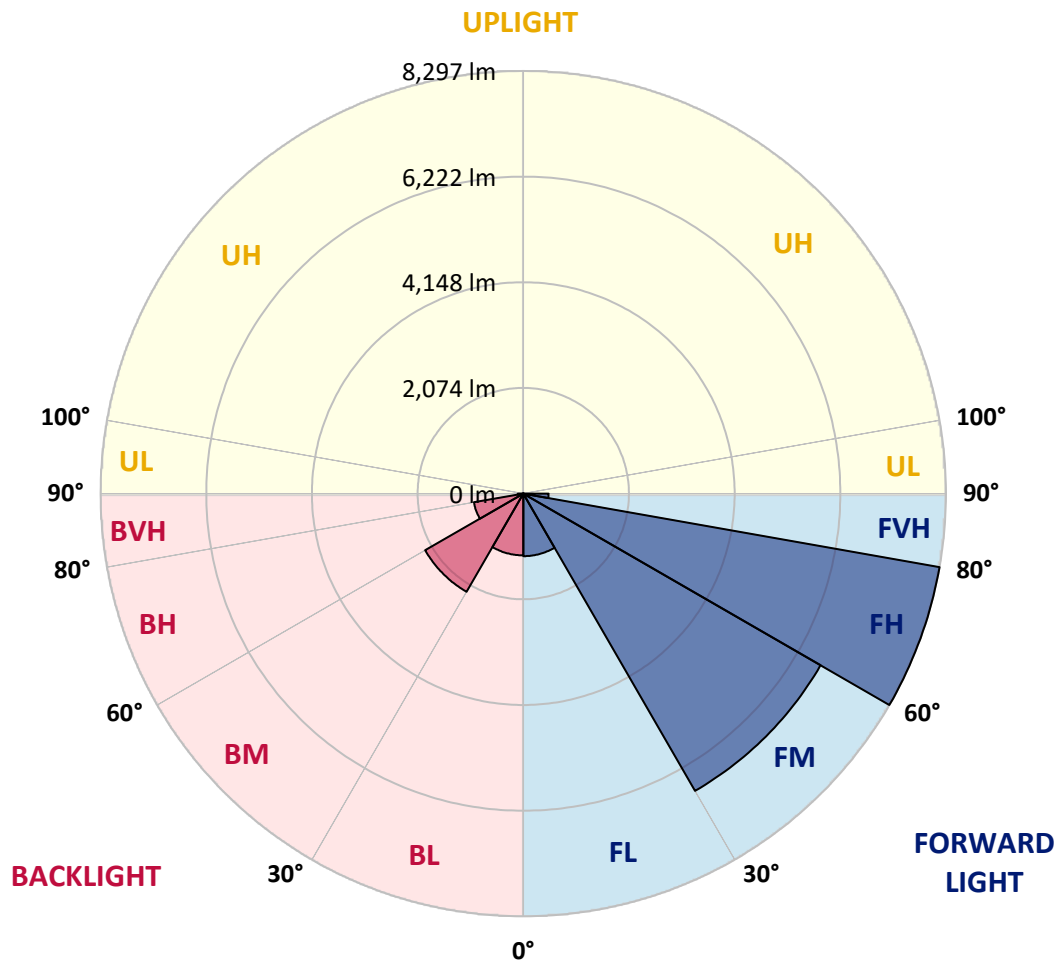
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1227.1	5.8			
FM	(30°-60°)	6736.1	31.6			
FH	(60°-80°)	8296.6	39.0			G4/12000
FVH	(80°-90°)	497.2	2.3			G3/500
BL	(0°-30°)	1211.7	5.7	B3/2500		
BM	(30°-60°)	2224.7	10.5	B2/2500		
BH	(60°-80°)	983.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	109.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3003.6	3019.0	3027.2	3056.7	3063.8	3073.2	3098.0	3131.0	3173.5	3211.2	3244.2
5°	2753.6	2777.2	2791.4	2817.3	2868.0	2872.7	2938.8	3014.2	3100.3	3180.5	3246.6
7.5°	2516.6	2542.5	2554.3	2601.5	2668.7	2679.3	2776.0	2895.1	3039.0	3160.5	3261.9
10°	2338.5	2351.5	2377.4	2412.8	2493.0	2500.1	2626.3	2785.5	2971.8	3151.0	3287.8
12.5°	2241.8	2248.9	2254.8	2292.5	2371.5	2382.2	2514.2	2694.7	2918.7	3158.1	3330.3
15°	2256.0	2258.3	2232.4	2239.5	2303.1	2318.5	2449.4	2634.5	2885.7	3175.8	3394.0
17.5°	2375.1	2366.8	2303.1	2270.1	2314.9	2322.0	2436.4	2610.9	2870.4	3208.8	3460.0
20°	2562.6	2550.8	2441.1	2368.0	2393.9	2399.8	2478.9	2628.6	2885.7	3263.1	3562.6
22.5°	2796.1	2791.4	2625.1	2536.6	2535.5	2535.5	2576.7	2692.3	2931.7	3337.4	3669.9
25°	3122.7	3098.0	2881.0	2766.6	2734.8	2732.4	2727.7	2797.3	2990.7	3416.4	3797.3
27.5°	3457.7	3415.2	3221.8	3046.1	2977.7	2969.4	2938.8	2945.8	3066.1	3506.0	3942.3
30°	3758.4	3731.3	3549.6	3355.1	3273.7	3254.8	3169.9	3131.0	3192.3	3667.6	4173.5
32.5°	3988.3	3971.8	3830.3	3653.4	3533.1	3529.6	3405.8	3373.9	3389.3	3863.3	4437.6
35°	4174.7	4180.6	4108.6	3955.3	3817.3	3797.3	3714.7	3674.6	3629.8	4146.4	4770.2
37.5°	4429.4	4442.4	4437.6	4305.6	4136.9	4141.6	4122.8	4056.7	3937.6	4462.4	5139.3
40°	4710.1	4719.5	4718.3	4667.6	4579.2	4583.9	4576.8	4501.3	4323.3	4864.5	5549.7
42.5°	5098.0	5053.2	4936.5	4987.2	5039.1	5061.5	5109.8	5037.9	4793.8	5293.8	5935.3
45°	5532.0	5447.1	5182.9	5206.5	5398.8	5441.2	5707.7	5608.7	5304.4	5786.7	6389.4
47.5°	5805.6	5721.9	5499.0	5494.3	5749.0	5790.3	6262.0	6225.4	5769.1	6318.6	6943.6
50°	6049.7	6037.9	5786.7	5846.9	6095.7	6157.0	6865.8	6831.6	6232.5	6946.0	7547.4
52.5°	6411.8	6316.2	6115.8	6239.6	6568.6	6648.8	7464.9	7364.6	6658.2	7500.2	8133.5
55°	6574.5	6552.1	6540.3	6647.6	7099.3	7157.1	8047.4	7817.5	7021.5	7969.6	8579.3
57.5°	7009.7	6968.4	7085.1	7158.2	7724.3	7812.7	8655.9	8290.4	7339.9	8342.2	8796.3
60°	7573.4	7550.9	7658.3	7790.3	8422.4	8556.9	9349.4	8693.7	7595.8	8529.8	8677.2
62.5°	8415.4	8413.0	8393.0	8676.0	9411.9	9535.7	10145.4	9086.4	7635.9	8389.4	8061.6
65°	9622.9	9580.5	9406.0	9714.9	10643.0	10788.1	10974.4	9305.7	7394.1	7668.9	6788.0
67.5°	10886.0	10883.6	10742.1	11143.0	12410.8	12560.5	12011.0	9257.4	6723.1	6212.5	4820.9
70°	11933.2	11882.5	12062.9	13131.3	14669.1	14842.5	12917.9	8687.8	5355.1	4102.7	2864.5
72.5°	12184.4	12186.7	12561.7	14664.4	16837.8	16864.9	13244.5	7041.5	3583.8	2263.0	1432.8
74°	11410.7	11430.8	12012.2	14741.0	17242.3	17119.7	12409.6	5534.4	2423.4	1477.6	1033.1
75°	10415.4	10289.2	11130.1	14230.4	16822.5	16690.4	11432.0	4441.2	1849.1	1180.5	904.5
77.5°	5568.6	5697.1	6994.3	10619.4	13666.7	13514.6	7751.4	2129.8	998.9	822.0	651.0
80°	1982.4	2186.4	3073.2	5556.8	8762.1	8809.2	3699.4	976.4	702.9	606.2	459.9
82.5°	809.0	831.4	1319.6	2465.9	4449.4	4491.9	1510.7	580.2	502.4	417.5	274.8
85°	316.0	325.5	583.7	1108.5	1898.6	2022.5	522.4	306.6	309.0	239.4	140.3
87.5°	106.1	120.3	239.4	369.1	645.1	632.1	152.1	90.8	110.9	103.8	43.6
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°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3260.7	3283.1	3298.5	3315.0	3330.3	3335.0	3331.5	3342.1	3343.3	3344.4	3345.6
5°	3279.6	3310.2	3339.7	3356.2	3363.3	3357.4	3337.4	3326.8	3317.3	3310.2	3312.6
7.5°	3305.5	3349.2	3376.3	3383.4	3364.5	3337.4	3287.8	3248.9	3224.2	3207.6	3206.5
10°	3345.6	3388.1	3410.5	3390.4	3338.6	3272.5	3194.7	3121.6	3066.1	3049.6	3048.4
12.5°	3396.3	3444.7	3443.5	3384.5	3293.7	3175.8	3049.6	2964.7	2889.2	2851.5	2866.8
15°	3462.4	3498.9	3464.7	3358.6	3214.7	3053.2	2897.5	2781.9	2697.0	2656.9	2659.3
17.5°	3539.0	3570.9	3480.1	3312.6	3103.9	2896.3	2715.9	2606.2	2539.0	2509.5	2507.2
20°	3634.6	3644.0	3480.1	3232.4	2961.2	2713.5	2541.4	2464.7	2427.0	2411.6	2416.4
22.5°	3737.1	3718.3	3461.2	3119.2	2773.7	2522.5	2406.9	2372.7	2353.8	2351.5	2353.8
25°	3852.7	3799.6	3422.3	2965.9	2577.9	2357.4	2290.2	2296.1	2299.6	2299.6	2307.9
27.5°	3994.2	3888.1	3357.4	2772.5	2349.1	2204.1	2185.2	2226.5	2245.4	2248.9	2254.8
30°	4180.6	3984.8	3250.1	2530.7	2154.6	2066.1	2099.1	2154.6	2175.8	2188.7	2186.4
32.5°	4402.3	4090.9	3105.1	2289.0	1997.7	1969.4	2009.5	2066.1	2089.7	2096.8	2087.3
35°	4662.9	4211.2	2914.0	2062.6	1860.9	1877.4	1924.6	1942.3	1963.5	1963.5	1968.2
37.5°	4943.6	4307.9	2680.5	1855.0	1754.8	1814.9	1849.1	1832.6	1823.2	1811.4	1817.3
40°	5228.9	4379.9	2377.4	1649.8	1648.6	1750.1	1759.5	1712.3	1674.6	1662.8	1656.9
42.5°	5477.8	4424.7	2103.8	1490.6	1548.4	1686.4	1693.5	1618.0	1557.8	1522.5	1510.7
45°	5771.4	4476.6	1836.1	1358.5	1455.2	1635.7	1653.4	1551.9	1463.5	1389.2	1370.3
47.5°	6173.5	4594.5	1625.1	1255.9	1388.0	1603.8	1628.6	1497.7	1380.9	1284.2	1268.9
50°	6627.6	4756.0	1461.1	1186.4	1336.1	1575.5	1606.2	1442.3	1304.3	1197.0	1185.2
52.5°	7043.9	4843.3	1319.6	1123.9	1285.4	1523.6	1576.7	1402.2	1228.8	1109.7	1099.1
55°	7271.5	4701.8	1180.5	1062.5	1215.8	1456.4	1535.4	1346.7	1155.7	1063.7	1048.4
57.5°	7302.1	4409.3	1054.3	996.5	1142.7	1373.9	1458.8	1279.5	1108.5	1031.9	1018.9
60°	7065.1	3973.0	956.4	942.2	1068.4	1280.7	1372.7	1220.6	1060.2	996.5	983.5
62.5°	6475.4	3498.9	888.0	892.7	993.0	1182.8	1309.0	1164.0	1014.2	957.6	945.8
65°	5461.3	2888.1	822.0	842.0	925.7	1106.2	1251.2	1116.8	968.2	928.1	917.5
67.5°	3793.8	2085.0	767.7	788.9	862.1	1028.3	1184.0	1066.1	916.3	895.1	878.6
70°	2100.3	1283.1	704.0	728.8	796.0	941.1	1108.5	989.4	840.8	831.4	807.8
72.5°	1103.8	817.2	632.1	659.2	706.4	829.0	993.0	905.7	766.5	726.4	695.8
74°	862.1	669.8	583.7	612.0	643.9	763.0	924.6	845.5	713.5	666.3	642.7
75°	751.2	596.7	542.5	579.0	607.3	718.2	871.5	803.1	684.0	639.2	617.9
77.5°	530.7	446.9	443.4	487.0	502.4	629.7	785.4	731.2	609.7	562.5	542.5
80°	372.7	334.9	351.4	378.5	399.8	556.6	728.8	632.1	500.0	444.6	437.5
82.5°	242.9	219.3	251.2	276.0	283.0	410.4	588.5	480.0	364.4	296.0	274.8
85°	112.0	109.7	143.9	140.3	139.2	200.5	349.1	280.7	209.9	156.8	147.4
87.5°	28.3	27.1	35.4	29.5	35.4	30.7	31.8	8.3	1.2	0.0	0.0
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)