

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: P458796

Luminaire Tested: **GALN-SA3B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15692 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

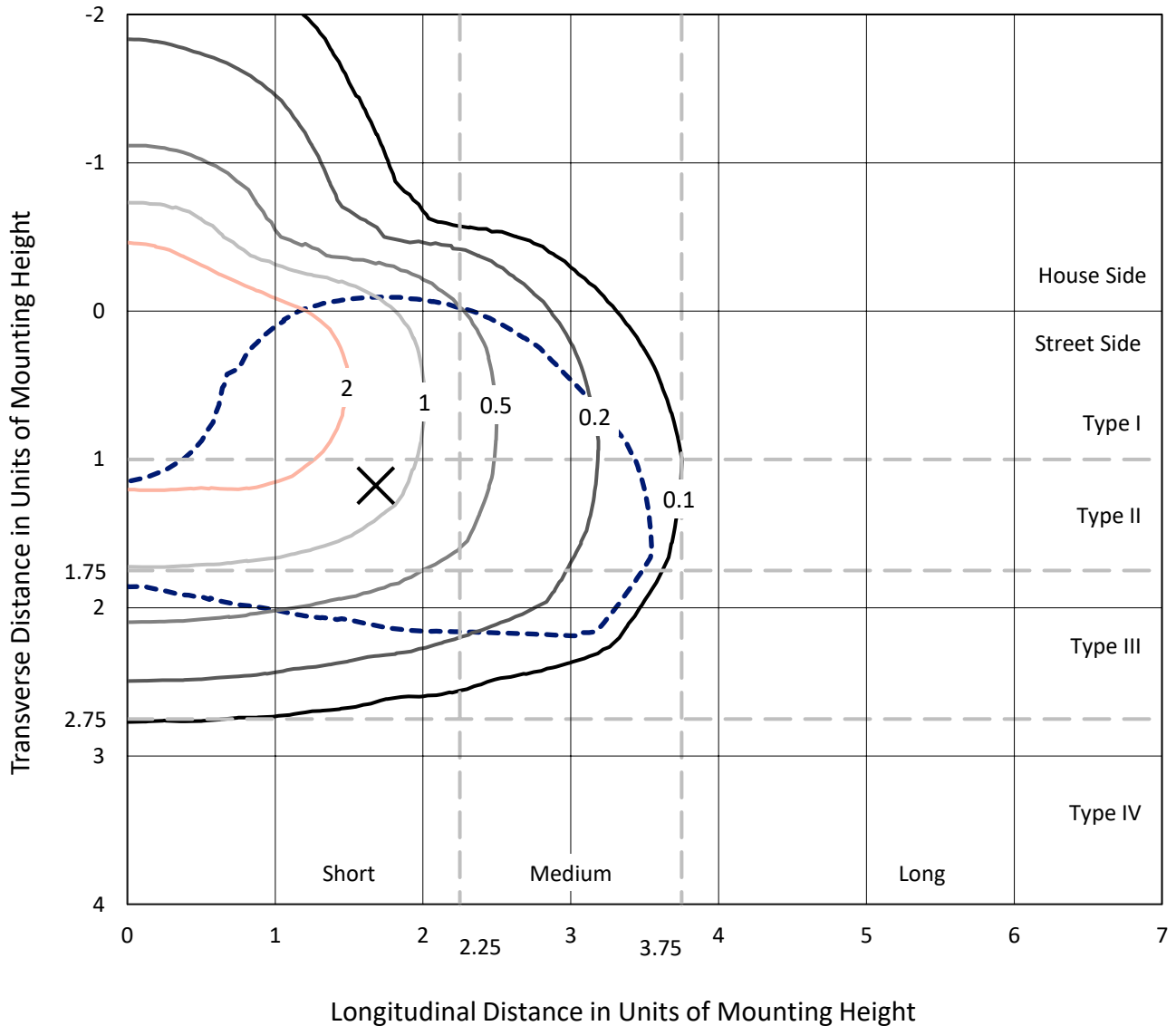
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

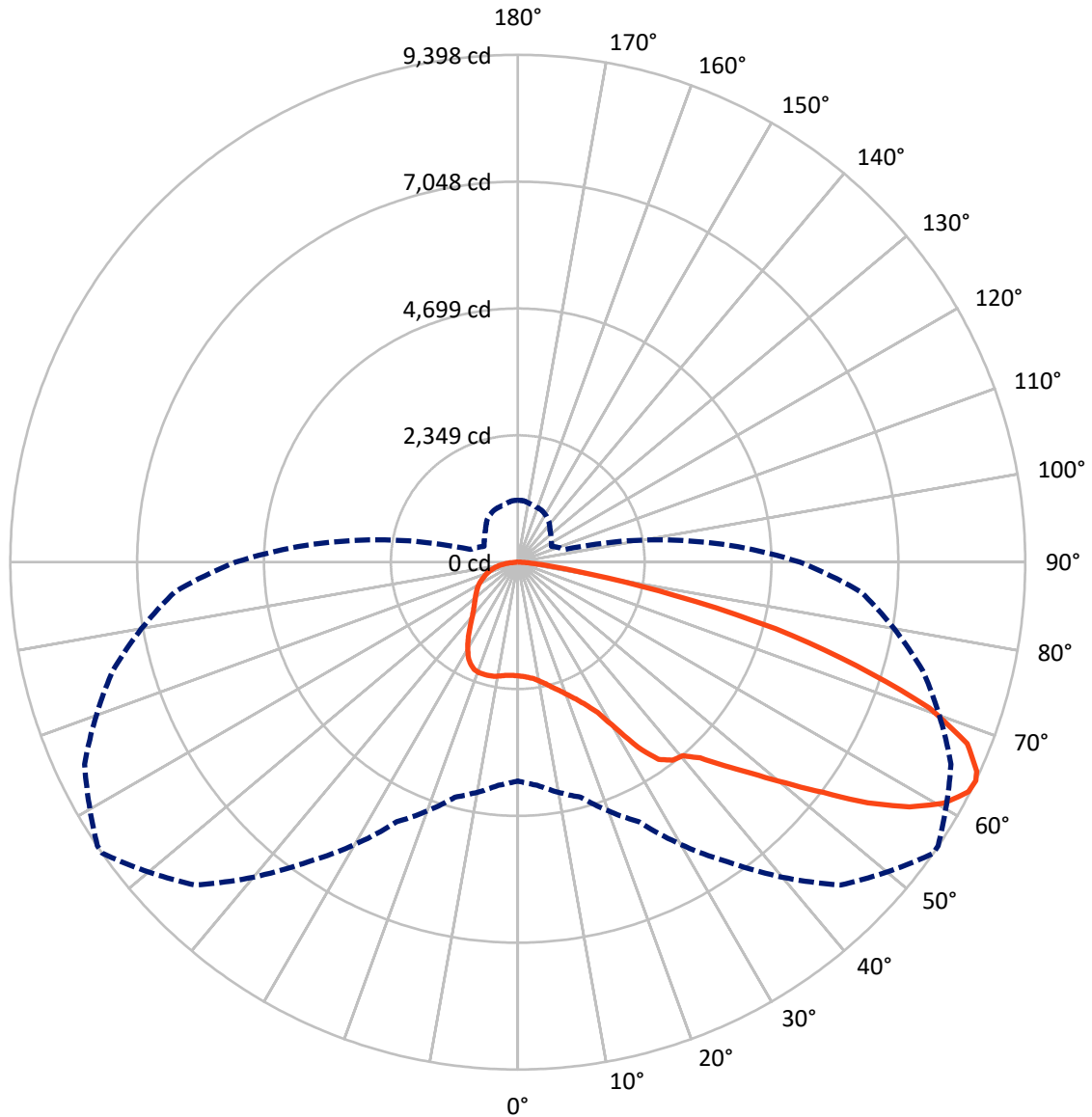
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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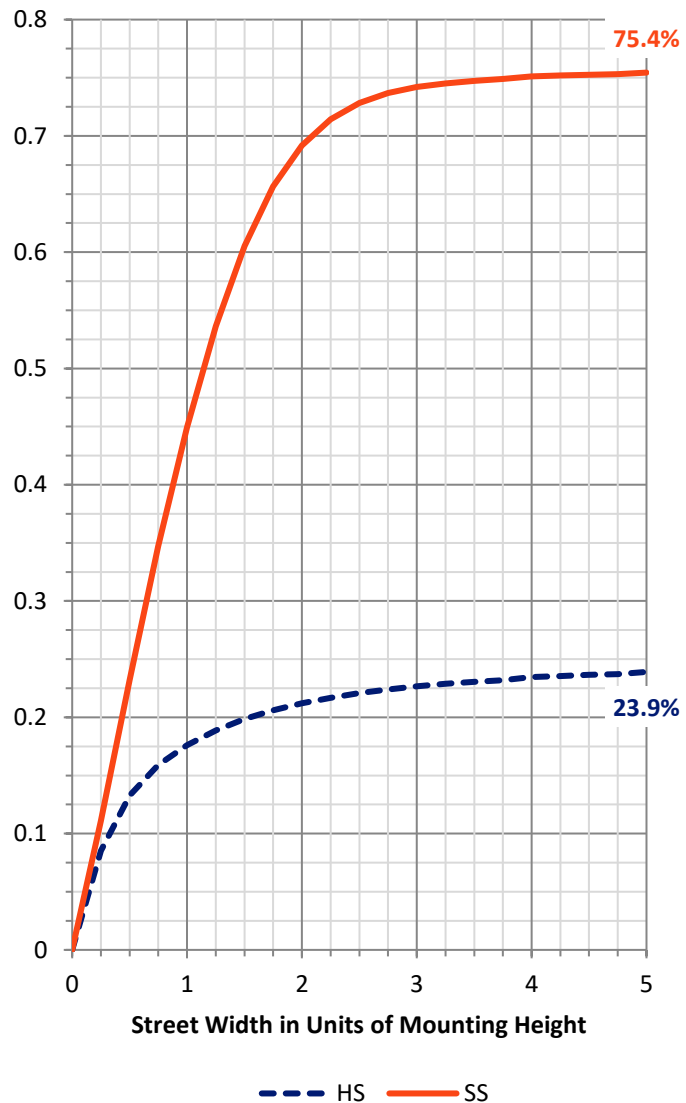
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.9	0.0	3811.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	11880.1	0.0	11880.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	15692.0	0.0	15692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.3
10°-20°	646.2	4.1
20°-30°	1150.4	7.3
30°-40°	1770.0	11.3
40°-50°	2509.2	16.0
50°-60°	3632.0	23.1
60°-70°	3758.7	24.0
70°-80°	1760.2	11.2
80°-90°	260.6	1.7
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°	15692.0	100.0
0°-180°	15692.0	100.0



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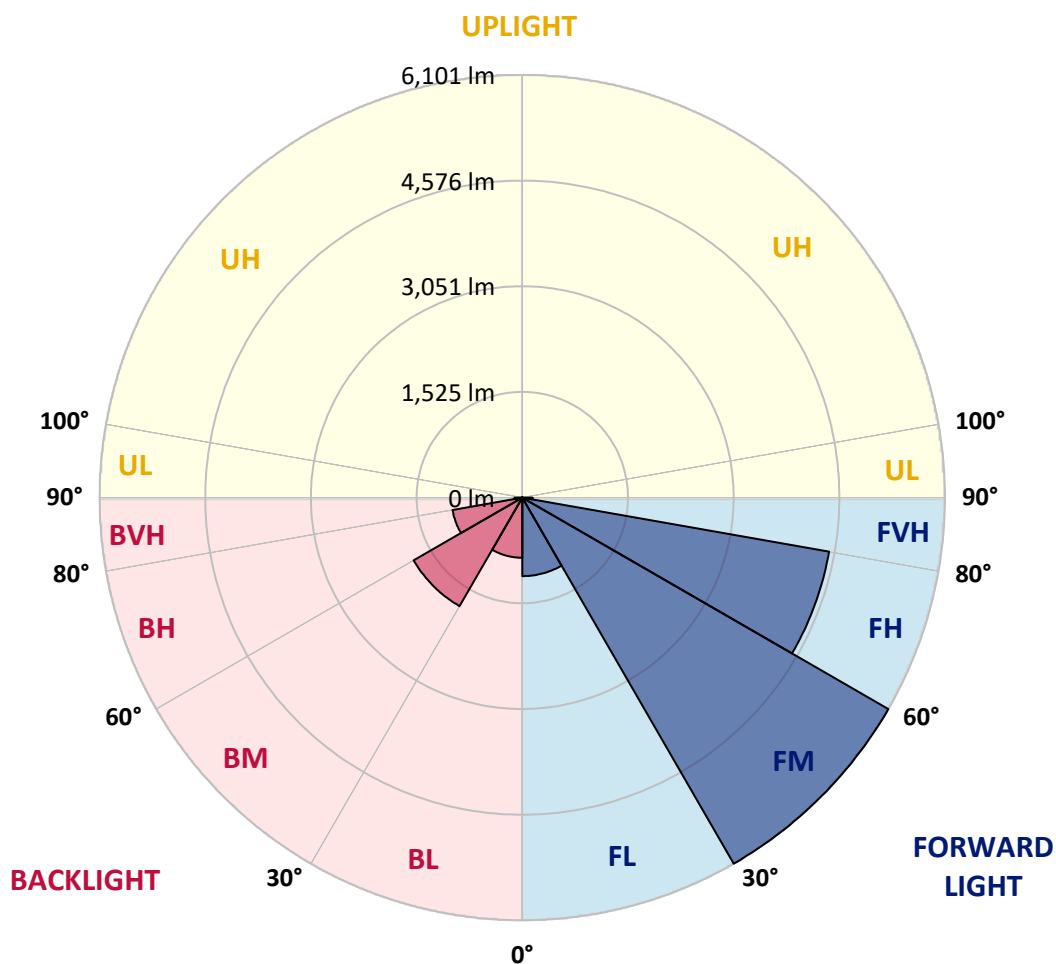
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.2	7.2			
FM (30°-60°)	6101.5	38.9			
FH (60°-80°)	4496.2	28.7			G2/5000
FVH (80°-90°)	149.2	1.0			G2/225
BL (0°-30°)	868.2	5.5	B2/1000		
BM (30°-60°)	1809.7	11.5	B2/2500		
BH (60°-80°)	1022.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2129.0	2128.1	2130.8	2128.1	2129.9	2123.8	2121.1	2122.9	2120.3	2115.9	2108.0
5°	2155.3	2154.4	2155.3	2151.8	2153.5	2150.0	2143.9	2145.6	2141.3	2131.6	2120.3
7.5°	2199.9	2196.4	2196.4	2195.5	2192.0	2186.7	2182.4	2180.6	2176.2	2164.0	2146.5
10°	2257.6	2257.6	2258.5	2251.5	2255.8	2246.2	2241.8	2241.0	2226.1	2210.4	2185.9
12.5°	2333.7	2338.1	2335.4	2331.9	2330.2	2326.7	2311.8	2315.3	2298.7	2271.6	2241.8
15°	2428.2	2435.2	2430.8	2429.0	2424.7	2411.5	2405.4	2402.8	2380.9	2341.6	2302.2
17.5°	2553.2	2544.5	2541.0	2536.6	2518.2	2508.6	2498.1	2496.4	2477.1	2430.8	2369.6
20°	2662.6	2674.8	2667.8	2663.4	2645.1	2626.7	2618.8	2616.2	2599.6	2548.9	2450.9
22.5°	2792.9	2795.5	2798.2	2787.7	2778.9	2764.9	2750.9	2746.5	2740.4	2687.9	2568.1
25°	2932.0	2942.5	2933.7	2923.2	2912.7	2911.9	2925.0	2923.2	2920.6	2869.9	2723.8
27.5°	3158.5	3168.1	3170.8	3159.4	3119.2	3122.7	3152.4	3162.0	3202.3	3118.3	2924.1
30°	3286.2	3295.9	3317.7	3360.6	3424.4	3480.4	3552.1	3574.0	3612.5	3454.2	3162.0
32.5°	3365.0	3368.5	3407.8	3487.4	3679.0	3888.0	4083.1	4091.0	4115.4	3893.3	3379.8
35°	3489.2	3491.8	3523.3	3610.7	3835.5	4183.7	4485.4	4495.1	4474.9	4029.7	3481.3
37.5°	3642.2	3649.2	3669.3	3741.9	4010.5	4431.2	4652.5	4645.5	4467.1	4138.2	3660.6
40°	3865.3	3865.3	3841.7	3939.6	4195.0	4572.9	4711.1	4698.9	4651.6	4452.2	3933.5
42.5°	4062.1	4058.6	4114.6	4181.0	4426.0	4791.6	4956.9	4977.0	5054.9	4846.7	4244.0
45°	4318.4	4334.1	4365.6	4486.3	4818.7	5165.1	5378.5	5397.7	5508.0	5311.2	4607.0
47.5°	4577.3	4582.5	4681.4	4842.3	5305.0	5671.5	5846.5	5878.0	5978.5	5854.3	4998.0
50°	4761.0	4810.8	4969.1	5222.8	5806.2	6289.1	6425.5	6463.1	6640.7	6445.6	5453.7
52.5°	4955.2	5004.1	5197.4	5584.1	6381.8	6920.6	7088.5	7113.9	7298.5	7043.9	5919.9
55°	5121.3	5166.8	5386.4	5904.2	6840.1	7565.2	7869.6	7839.9	7928.2	7504.9	6279.4
57.5°	5148.5	5185.2	5461.6	6108.9	7184.8	8118.1	8554.5	8572.0	8469.7	7849.5	6576.0
60°	4938.5	5013.8	5331.3	6087.0	7339.6	8502.9	9065.3	9077.6	8787.2	8026.2	6694.0
62.5°	4566.8	4558.9	4942.9	5735.4	7122.6	8590.4	9366.2	9353.1	8911.4	7941.4	6579.5
64°	4053.3	4147.8	4506.4	5303.3	6772.8	8455.7	9397.7	9390.7	8851.9	7764.7	6384.4
65°	3740.2	3735.0	4089.2	4949.9	6424.6	8252.8	9341.8	9332.1	8727.7	7606.4	6233.1
67.5°	2700.2	2712.4	3062.3	3819.8	5222.8	7459.4	8977.0	8941.1	8237.9	7081.5	5657.5
70°	1635.7	1642.7	1917.3	2534.0	3748.9	6030.2	8091.8	8093.6	7488.3	6297.8	4815.2
72.5°	861.6	879.9	990.2	1438.9	2276.8	4230.9	6564.6	6720.3	6429.0	5375.0	3804.1
75°	479.3	482.0	559.8	709.4	1161.6	2367.8	4934.2	4978.8	5089.9	4326.2	2813.0
77.5°	365.6	370.9	395.4	458.3	632.4	1097.7	2986.2	3210.1	3587.1	3050.1	1605.1
80°	296.5	301.8	322.8	360.4	420.7	520.4	1387.3	1508.0	1920.0	1354.0	626.3
82.5°	230.9	227.4	254.5	279.0	306.1	307.9	569.4	629.8	782.0	582.5	271.2
85°	171.4	171.4	193.3	188.1	197.7	180.2	251.0	277.3	313.1	247.5	126.0
87.5°	68.2	75.2	126.8	113.7	88.3	70.9	92.7	98.0	108.5	97.1	52.5
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°	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4	2105.4
2.5°	2108.9	2111.5	2105.4	2101.0	2099.3	2096.6	2094.0	2094.9	2098.4	2101.9	2101.0
5°	2119.4	2120.3	2109.8	2104.5	2101.0	2097.5	2097.5	2100.1	2107.1	2112.4	2112.4
7.5°	2145.6	2145.6	2130.8	2121.1	2115.9	2109.8	2108.0	2108.9	2114.1	2121.1	2122.0
10°	2186.7	2183.2	2164.0	2149.1	2139.5	2124.6	2111.5	2104.5	2107.1	2111.5	2111.5
12.5°	2236.6	2227.0	2202.5	2182.4	2158.7	2130.8	2103.6	2089.6	2088.8	2093.1	2091.4
15°	2290.0	2279.5	2245.3	2208.6	2167.5	2126.4	2094.0	2073.9	2058.2	2053.8	2063.4
17.5°	2352.1	2330.2	2283.0	2232.2	2171.0	2117.6	2066.9	2025.8	1997.8	1989.9	1992.6
20°	2427.3	2398.4	2334.6	2255.0	2168.4	2086.1	2007.4	1952.3	1906.8	1892.8	1894.6
22.5°	2531.4	2481.5	2387.9	2266.3	2146.5	2026.7	1917.3	1845.6	1790.5	1768.6	1781.8
25°	2649.5	2595.2	2438.7	2263.7	2089.6	1931.3	1810.6	1717.0	1667.2	1634.8	1641.8
27.5°	2812.1	2715.9	2492.9	2240.1	2008.3	1815.0	1675.0	1586.7	1541.2	1524.6	1532.5
30°	3020.3	2872.5	2551.5	2176.2	1879.7	1668.0	1538.6	1480.9	1453.7	1432.8	1439.7
32.5°	3170.8	2982.7	2564.6	2068.7	1740.6	1534.2	1445.9	1403.0	1373.3	1353.2	1357.5
35°	3278.4	3076.3	2558.5	1936.6	1595.4	1424.0	1372.4	1337.4	1289.3	1245.6	1237.7
37.5°	3422.7	3193.5	2513.9	1792.3	1452.0	1349.7	1312.9	1248.2	1179.1	1120.5	1117.9
40°	3644.0	3330.8	2418.5	1622.6	1329.5	1294.5	1249.9	1166.0	1091.6	1044.4	1040.9
42.5°	3872.3	3457.7	2289.1	1444.1	1228.9	1236.8	1182.6	1099.5	1054.0	1023.4	1019.9
45°	4151.3	3595.0	2149.1	1289.3	1154.6	1182.6	1124.0	1075.9	1048.8	1028.6	1023.4
47.5°	4453.1	3735.8	1991.7	1150.2	1091.6	1132.7	1099.5	1077.6	1062.8	1048.8	1042.6
50°	4778.5	3893.3	1843.9	1038.3	1034.8	1081.1	1096.9	1089.0	1080.2	1075.9	1070.6
52.5°	5135.3	4054.2	1719.7	959.5	984.9	1044.4	1097.7	1103.9	1103.9	1101.2	1097.7
55°	5376.8	4166.2	1593.7	895.7	934.2	1014.6	1096.0	1119.6	1128.4	1124.9	1121.4
57.5°	5555.2	4227.4	1435.4	840.6	891.3	985.8	1086.4	1121.4	1130.1	1134.5	1132.7
60°	5591.9	4170.5	1228.1	782.9	845.0	943.8	1051.4	1095.1	1106.5	1133.6	1136.2
62.5°	5426.6	3995.6	1021.6	726.0	788.1	879.9	1004.2	1065.4	1088.1	1130.1	1134.5
64°	5223.7	3799.7	907.1	690.1	751.4	844.1	980.5	1057.5	1087.2	1143.2	1146.7
65°	5075.0	3657.1	835.3	667.4	727.7	820.5	967.4	1060.1	1095.1	1163.3	1168.6
67.5°	4527.4	3166.4	691.0	614.0	671.8	780.2	970.0	1082.0	1093.4	1171.2	1170.3
70°	3746.3	2520.9	579.0	565.1	617.5	747.9	959.5	1047.0	1047.9	1099.5	1087.2
72.5°	2805.1	1863.1	502.1	514.3	557.2	670.9	906.2	999.8	984.9	991.9	979.7
75°	1927.0	1232.4	432.1	460.1	494.2	593.0	831.0	907.9	884.3	875.6	866.8
77.5°	1028.6	681.4	359.5	406.7	429.5	512.6	725.1	799.5	775.0	740.9	729.5
80°	416.4	321.0	289.5	336.8	349.9	412.9	603.5	649.9	631.5	572.1	552.8
82.5°	209.1	192.4	227.4	265.0	265.9	294.8	448.7	492.5	451.3	378.7	362.1
85°	109.3	112.8	156.6	186.3	164.4	159.2	269.4	298.3	273.8	237.9	214.3
87.5°	39.4	45.5	82.2	81.3	57.7	30.6	59.5	28.9	15.7	9.6	12.2
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)