

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: P458825

Luminaire Tested: **GALN-SA3C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458825
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-SA3C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19388 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

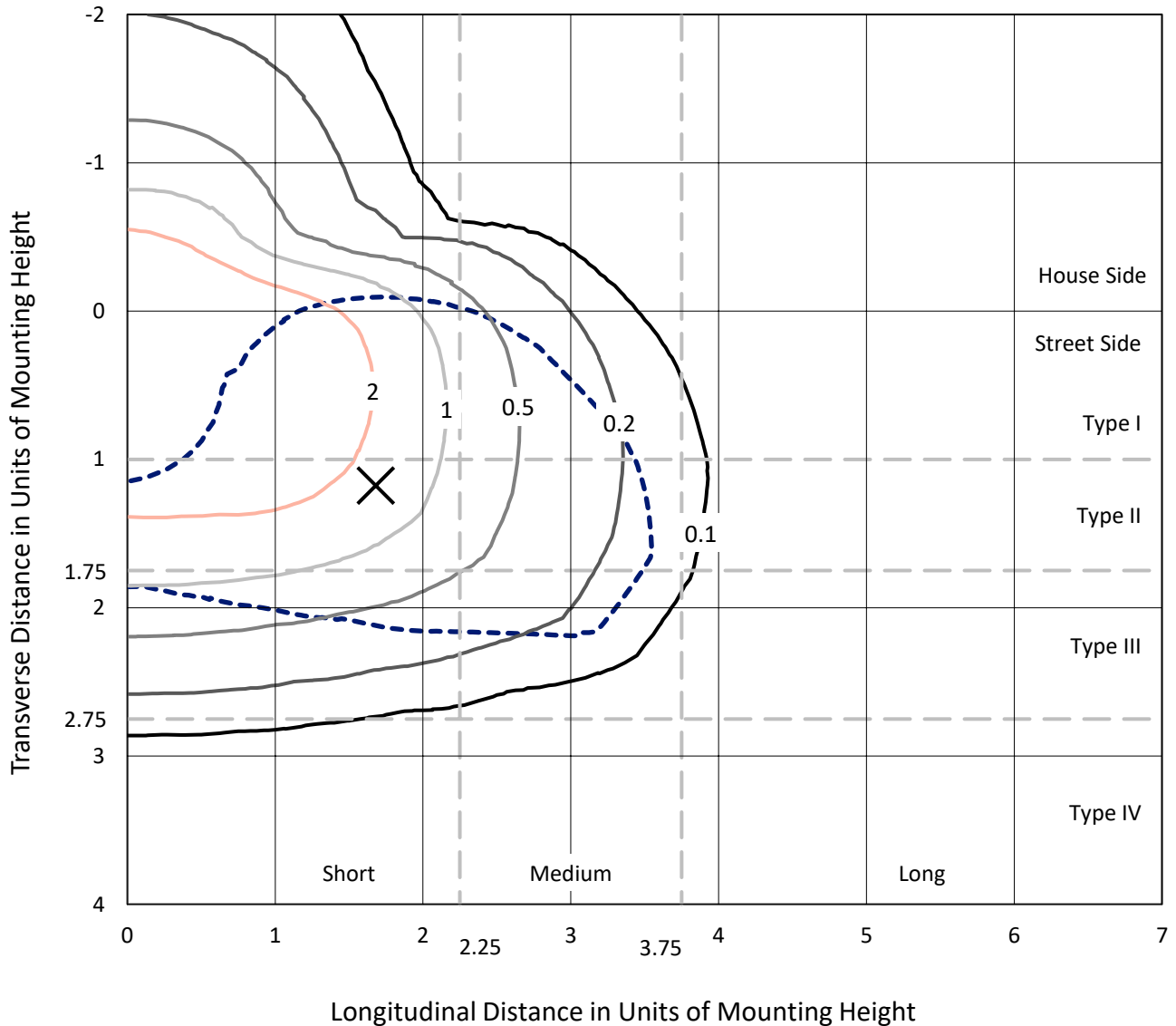
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

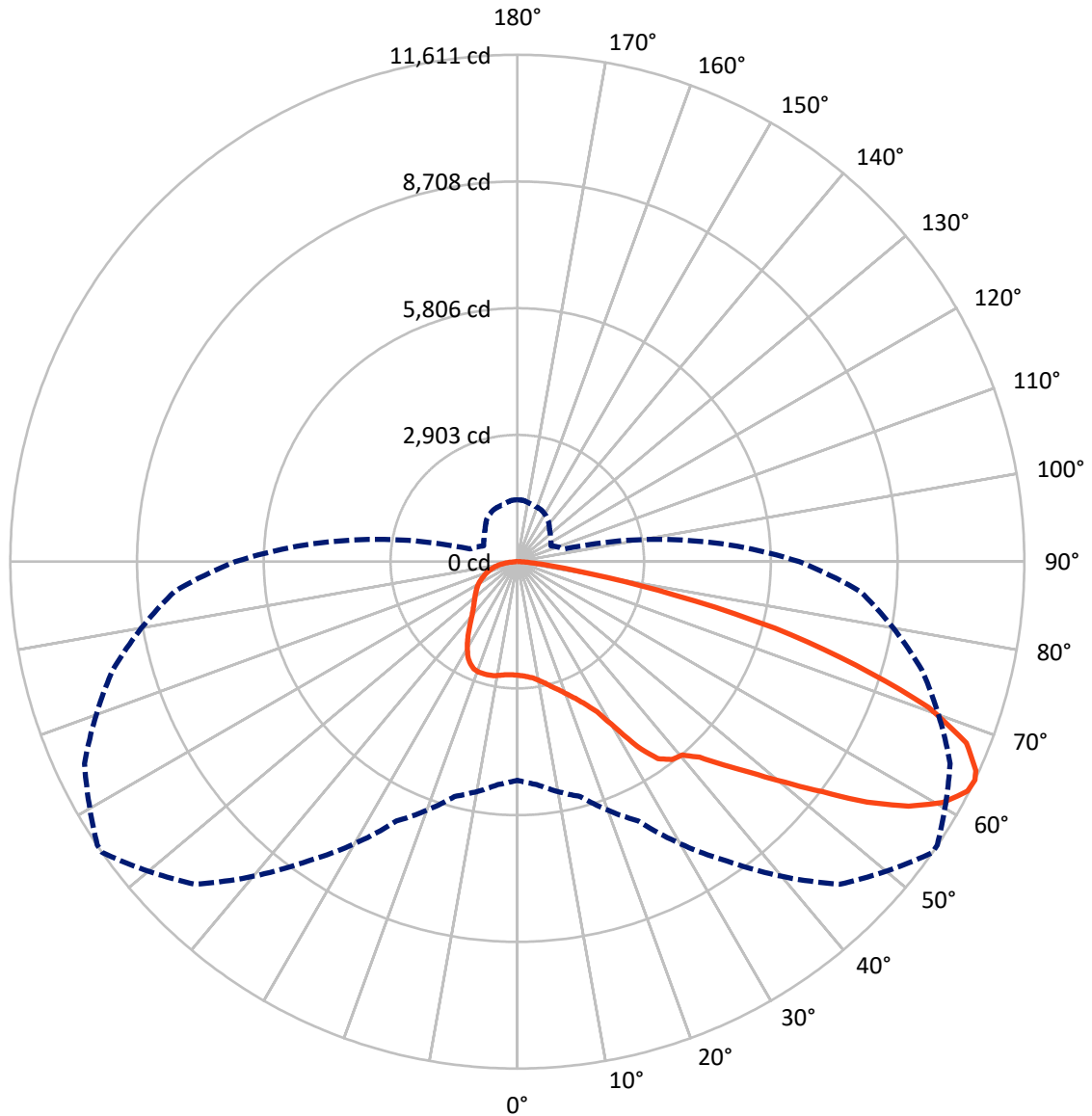
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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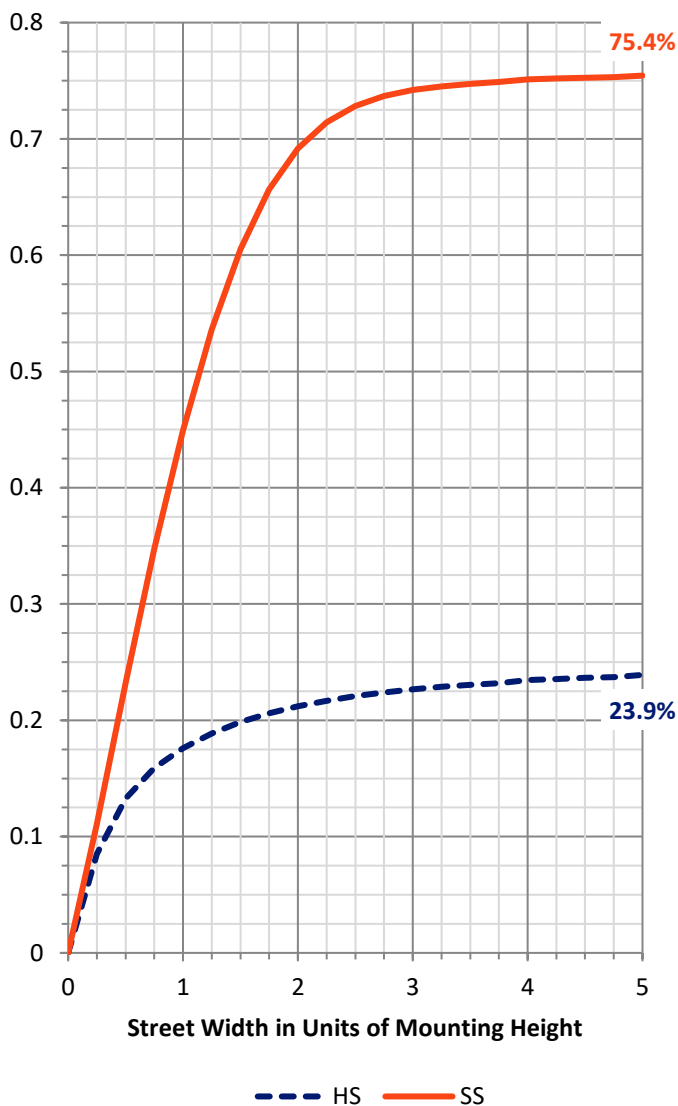
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4709.7	0.0	4709.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14678.3	0.0	14678.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	19388.0	0.0	19388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	1.3
10°-20°	798.4	4.1
20°-30°	1421.4	7.3
30°-40°	2186.9	11.3
40°-50°	3100.1	16.0
50°-60°	4487.4	23.1
60°-70°	4644.0	24.0
70°-80°	2174.8	11.2
80°-90°	322.0	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°	19388.0	100.0
0°-180°	19388.0	100.0

Coefficient of Utilization



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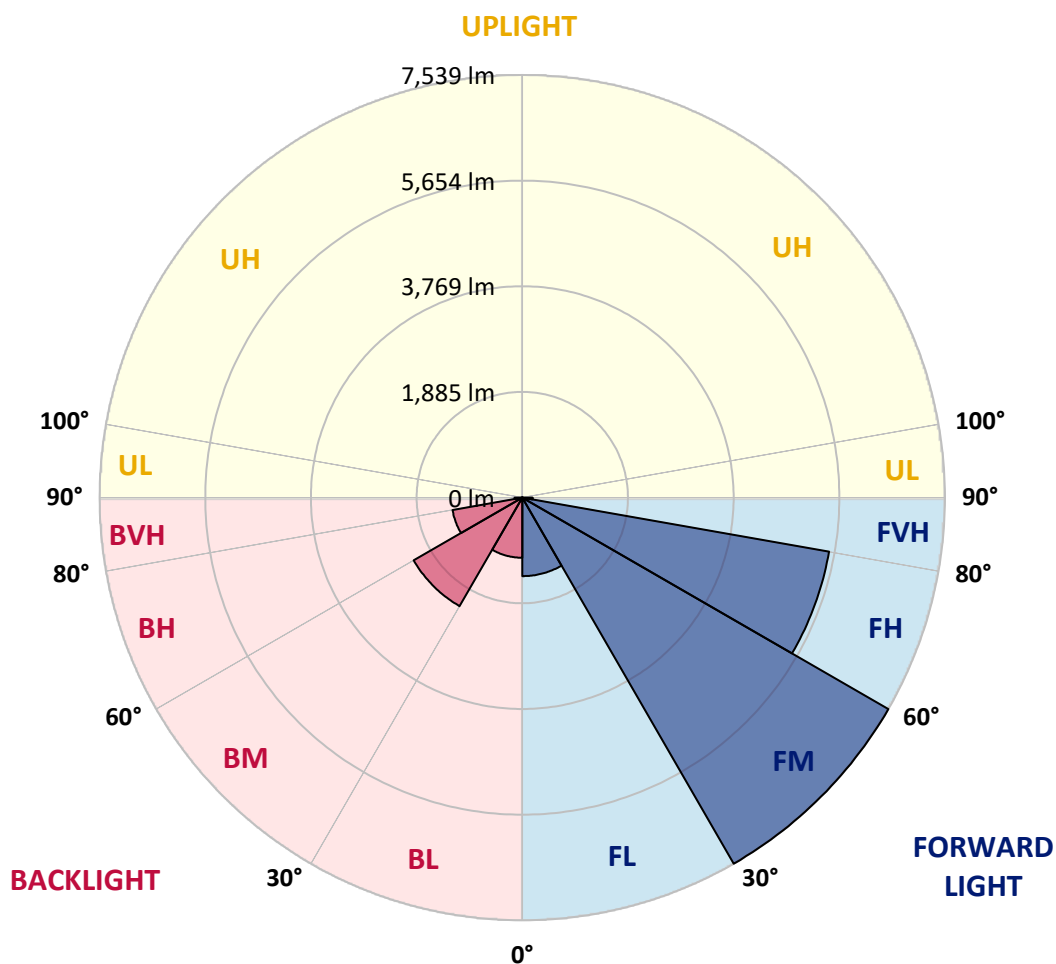
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1400.1	7.2			
FM	(30°-60°)	7538.6	38.9			
FH	(60°-80°)	5555.2	28.7			G3/7500
FVH	(80°-90°)	184.3	1.0			G2/225
BL	(0°-30°)	1072.7	5.5	B3/2500		
BM	(30°-60°)	2235.9	11.5	B2/2500		
BH	(60°-80°)	1263.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	137.6	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°	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3
2.5°	2630.5	2629.4	2632.6	2629.4	2631.5	2624.0	2620.7	2622.9	2619.7	2614.3	2604.5
5°	2662.9	2661.8	2662.9	2658.6	2660.7	2656.4	2648.8	2651.0	2645.6	2633.7	2619.7
7.5°	2718.0	2713.7	2713.7	2712.6	2708.3	2701.8	2696.4	2694.2	2688.8	2673.7	2652.1
10°	2789.3	2789.3	2790.4	2781.8	2787.2	2775.3	2769.9	2768.8	2750.4	2731.0	2700.7
12.5°	2883.4	2888.8	2885.5	2881.2	2879.0	2874.7	2856.3	2860.7	2840.1	2806.6	2769.9
15°	3000.1	3008.7	3003.3	3001.1	2995.7	2979.5	2972.0	2968.7	2941.7	2893.1	2844.4
17.5°	3154.6	3143.8	3139.5	3134.1	3111.4	3099.5	3086.5	3084.4	3060.6	3003.3	2927.7
20°	3289.7	3304.8	3296.2	3290.8	3268.1	3245.4	3235.7	3232.4	3211.9	3149.2	3028.2
22.5°	3450.7	3454.0	3457.2	3444.2	3433.4	3416.1	3398.9	3393.4	3385.9	3321.0	3173.0
25°	3622.6	3635.5	3624.7	3611.8	3598.8	3597.7	3613.9	3611.8	3608.5	3545.8	3365.4
27.5°	3902.5	3914.4	3917.6	3903.5	3853.8	3858.2	3894.9	3906.8	3956.5	3852.8	3612.8
30°	4060.3	4072.1	4099.2	4152.1	4231.0	4300.2	4388.8	4415.8	4463.4	4267.7	3906.8
32.5°	4157.5	4161.8	4210.5	4308.8	4545.5	4803.8	5044.8	5054.5	5084.8	4810.3	4175.9
35°	4311.0	4314.2	4353.1	4461.2	4738.9	5169.1	5541.9	5553.8	5528.9	4978.9	4301.3
37.5°	4500.1	4508.7	4533.6	4623.3	4955.1	5474.9	5748.3	5739.7	5519.2	5112.9	4522.8
40°	4775.7	4775.7	4746.5	4867.5	5183.1	5650.0	5820.7	5805.6	5747.2	5500.8	4860.0
42.5°	5018.8	5014.5	5083.7	5165.8	5468.4	5920.2	6124.4	6149.3	6245.5	5988.2	5243.6
45°	5335.5	5354.9	5393.9	5543.0	5953.7	6381.6	6645.3	6669.1	6805.3	6562.1	5692.1
47.5°	5655.4	5661.9	5784.0	5982.8	6554.5	7007.4	7223.5	7262.4	7386.7	7233.2	6175.2
50°	5882.3	5943.9	6139.5	6453.0	7173.8	7770.4	7938.9	7985.4	8204.8	7963.8	6738.3
52.5°	6122.3	6182.8	6421.6	6899.3	7884.9	8550.6	8758.1	8789.5	9017.5	8703.0	7314.3
55°	6327.6	6383.8	6655.1	7294.8	8451.2	9347.1	9723.2	9686.5	9795.6	9272.5	7758.5
57.5°	6361.1	6406.5	6748.0	7547.7	8877.0	10030.1	10569.4	10591.0	10464.6	9698.3	8124.8
60°	6101.7	6194.7	6587.0	7520.7	9068.3	10505.6	11200.5	11215.7	10856.9	9916.7	8270.7
62.5°	5642.4	5632.7	6107.1	7086.3	8800.3	10613.7	11572.3	11556.1	11010.3	9811.8	8129.1
64°	5008.0	5124.8	5567.9	6552.4	8368.0	10447.3	11611.2	11602.6	10936.9	9593.5	7888.1
65°	4621.1	4614.7	5052.3	6115.8	7937.9	10196.6	11542.1	11530.2	10783.4	9397.9	7701.2
67.5°	3336.2	3351.3	3783.6	4719.5	6453.0	9216.3	11091.4	11047.1	10178.2	8749.5	6990.1
70°	2020.9	2029.6	2368.9	3130.8	4632.0	7450.5	9997.7	9999.9	9252.0	7781.2	5949.3
72.5°	1064.5	1087.2	1223.4	1777.8	2813.1	5227.4	8110.8	8303.1	7943.3	6641.0	4700.0
75°	592.2	595.5	691.7	876.5	1435.2	2925.5	6096.3	6151.4	6288.7	5345.2	3475.6
77.5°	451.7	458.2	488.5	566.3	781.4	1356.3	3689.6	3966.2	4432.0	3768.5	1983.1
80°	366.4	372.8	398.8	445.3	519.8	643.0	1714.0	1863.2	2372.2	1672.9	773.8
82.5°	285.3	281.0	314.5	344.7	378.3	380.4	703.5	778.1	966.2	719.8	335.0
85°	211.8	211.8	238.8	232.4	244.2	222.6	310.2	342.6	386.9	305.8	155.6
87.5°	84.3	92.9	156.7	140.5	109.2	87.5	114.6	121.0	134.0	120.0	64.8
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°	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3	2601.3
2.5°	2605.6	2608.8	2601.3	2595.9	2593.7	2590.5	2587.2	2588.3	2592.6	2597.0	2595.9
5°	2618.6	2619.7	2606.7	2600.2	2595.9	2591.6	2591.6	2594.8	2603.4	2609.9	2609.9
7.5°	2651.0	2651.0	2632.6	2620.7	2614.3	2606.7	2604.5	2605.6	2612.1	2620.7	2621.8
10°	2701.8	2697.5	2673.7	2655.3	2643.4	2625.1	2608.8	2600.2	2603.4	2608.8	2608.8
12.5°	2763.4	2751.5	2721.2	2696.4	2667.2	2632.6	2599.1	2581.8	2580.8	2586.2	2584.0
15°	2829.3	2816.3	2774.2	2728.8	2678.0	2627.2	2587.2	2562.4	2542.9	2537.5	2549.4
17.5°	2906.0	2879.0	2820.7	2758.0	2682.3	2616.4	2553.7	2502.9	2468.4	2458.6	2461.9
20°	2999.0	2963.3	2884.4	2786.1	2679.1	2577.5	2480.2	2412.2	2356.0	2338.7	2340.8
22.5°	3127.6	3066.0	2950.4	2800.1	2652.1	2504.0	2368.9	2280.3	2212.2	2185.2	2201.4
25°	3273.5	3206.5	3013.0	2796.9	2581.8	2386.2	2237.1	2121.4	2059.8	2019.9	2028.5
27.5°	3474.5	3355.6	3080.0	2767.7	2481.3	2242.5	2069.6	1960.4	1904.2	1883.7	1893.4
30°	3731.7	3549.1	3152.4	2688.8	2322.5	2060.9	1901.0	1829.7	1796.2	1770.2	1778.9
32.5°	3917.6	3685.2	3168.7	2555.9	2150.6	1895.6	1786.4	1733.5	1696.7	1671.9	1677.3
35°	4050.5	3800.9	3161.1	2392.7	1971.2	1759.4	1695.6	1652.4	1593.0	1538.9	1529.2
37.5°	4228.8	3945.7	3106.0	2214.4	1794.0	1667.5	1622.2	1542.2	1456.8	1384.4	1381.2
40°	4502.3	4115.4	2988.2	2004.7	1642.7	1599.5	1544.3	1440.6	1348.7	1290.4	1286.1
42.5°	4784.3	4272.1	2828.2	1784.3	1518.4	1528.1	1461.1	1358.5	1302.3	1264.4	1260.1
45°	5129.1	4441.7	2655.3	1593.0	1426.5	1461.1	1388.7	1329.3	1295.8	1270.9	1264.4
47.5°	5501.9	4615.7	2460.8	1421.1	1348.7	1399.5	1358.5	1331.4	1313.1	1295.8	1288.2
50°	5904.0	4810.3	2278.2	1282.8	1278.5	1335.8	1355.2	1345.5	1334.7	1329.3	1322.8
52.5°	6344.9	5009.1	2124.7	1185.5	1216.9	1290.4	1356.3	1363.9	1363.9	1360.6	1356.3
55°	6643.2	5147.5	1969.1	1106.7	1154.2	1253.6	1354.1	1383.3	1394.1	1389.8	1385.5
57.5°	6863.6	5223.1	1773.5	1038.6	1101.3	1218.0	1342.2	1385.5	1396.3	1401.7	1399.5
60°	6909.0	5152.9	1517.3	967.2	1044.0	1166.1	1299.0	1353.1	1367.1	1400.6	1403.9
62.5°	6704.8	4936.7	1262.3	897.0	973.7	1087.2	1240.7	1316.3	1344.4	1396.3	1401.7
64°	6454.0	4694.6	1120.7	852.7	928.3	1042.9	1211.5	1306.6	1343.3	1412.5	1416.8
65°	6270.3	4518.5	1032.1	824.6	899.2	1013.7	1195.3	1309.8	1353.1	1437.4	1443.8
67.5°	5593.8	3912.2	853.8	758.7	830.0	964.0	1198.5	1336.8	1350.9	1447.1	1446.0
70°	4628.7	3114.6	715.4	698.1	763.0	924.0	1185.5	1293.6	1294.7	1358.5	1343.3
72.5°	3465.9	2301.9	620.3	635.5	688.4	828.9	1119.6	1235.3	1216.9	1225.5	1210.4
75°	2380.8	1522.7	533.9	568.5	610.6	732.7	1026.7	1121.8	1092.6	1081.8	1071.0
77.5°	1270.9	841.9	444.2	502.5	530.6	633.3	895.9	987.8	957.5	915.4	901.3
80°	514.4	396.6	357.7	416.1	432.3	510.1	745.7	803.0	780.3	706.8	683.0
82.5°	258.3	237.8	281.0	327.5	328.5	364.2	554.4	608.4	557.6	468.0	447.4
85°	135.1	139.4	193.4	230.2	203.2	196.7	332.9	368.5	338.3	294.0	264.8
87.5°	48.6	56.2	101.6	100.5	71.3	37.8	73.5	35.7	19.5	11.9	15.1
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)