

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: P452532

Luminaire Tested: **GALN-SA3C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452532
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17406 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

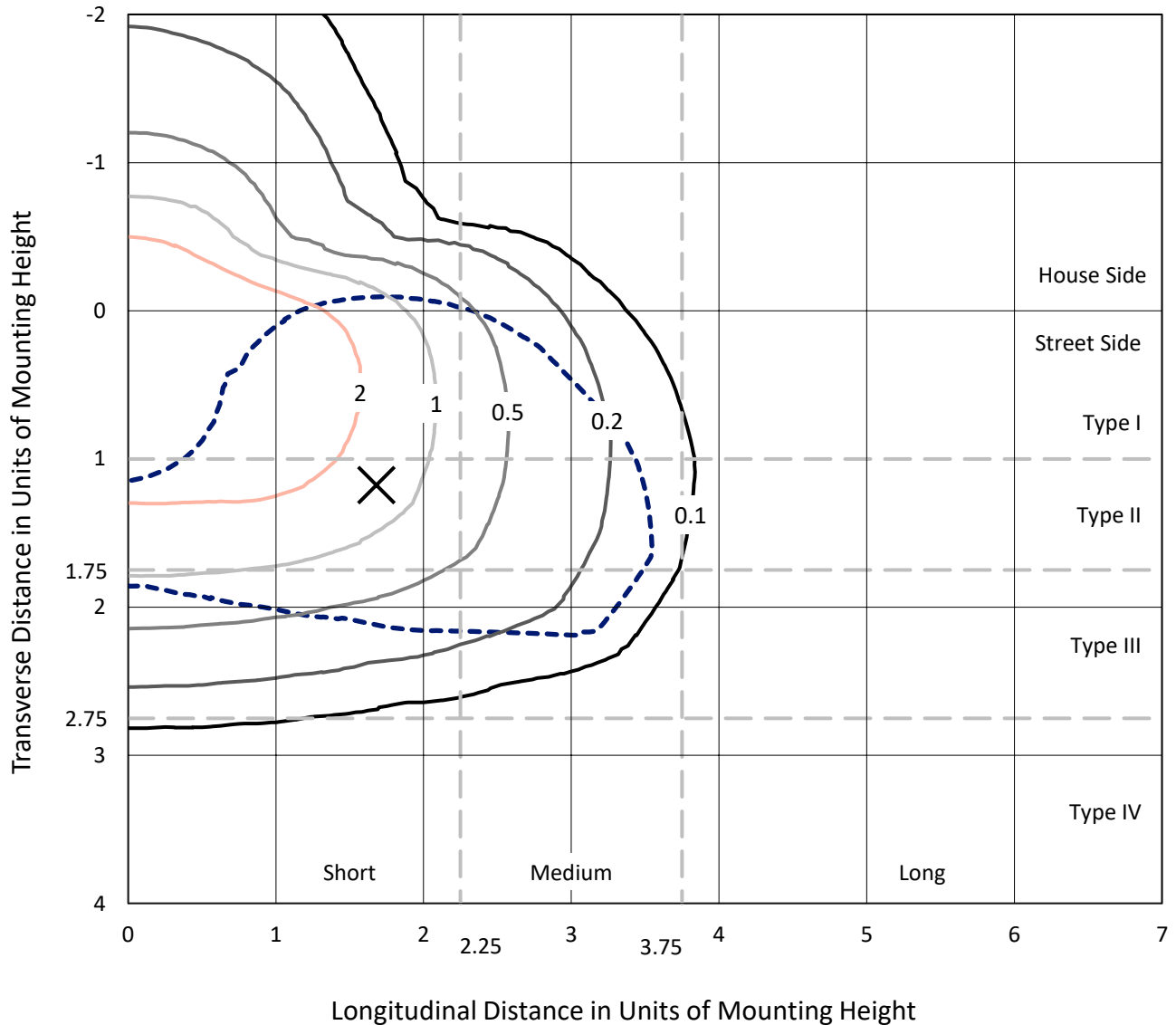
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

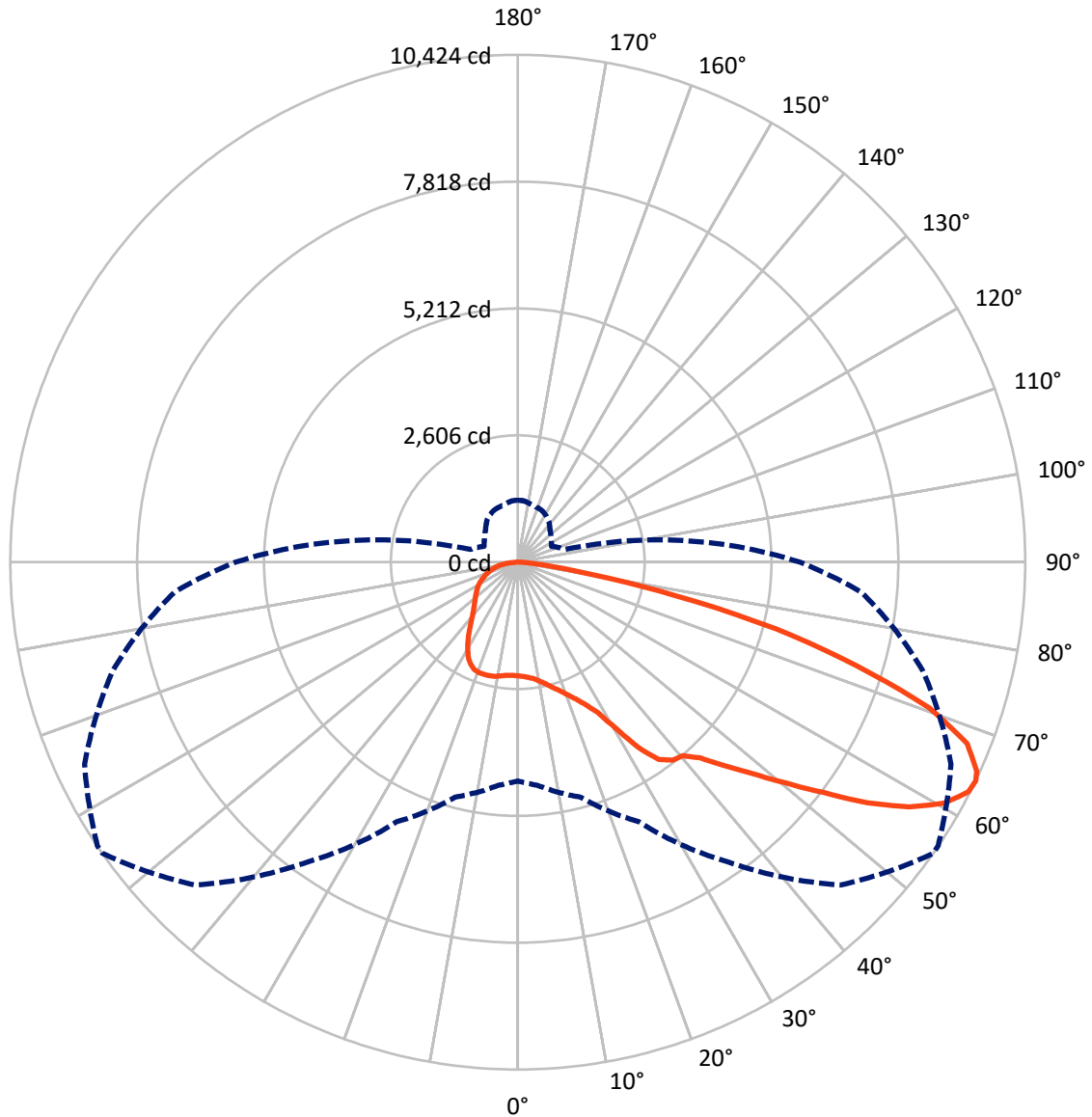
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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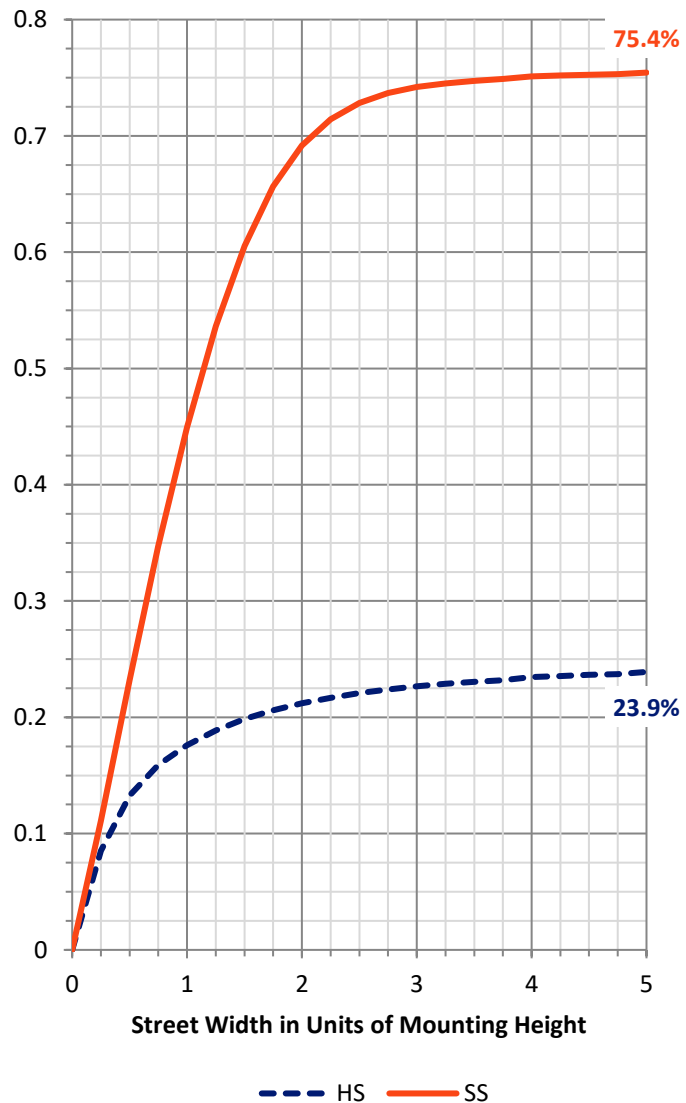
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4228.3	0.0	4228.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	13177.7	0.0	13177.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	17406.0	0.0	17406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.3
10°-20°	716.8	4.1
20°-30°	1276.1	7.3
30°-40°	1963.4	11.3
40°-50°	2783.2	16.0
50°-60°	4028.7	23.1
60°-70°	4169.2	24.0
70°-80°	1952.5	11.2
80°-90°	289.0	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°	17406.0	100.0
0°-180°	17406.0	100.0



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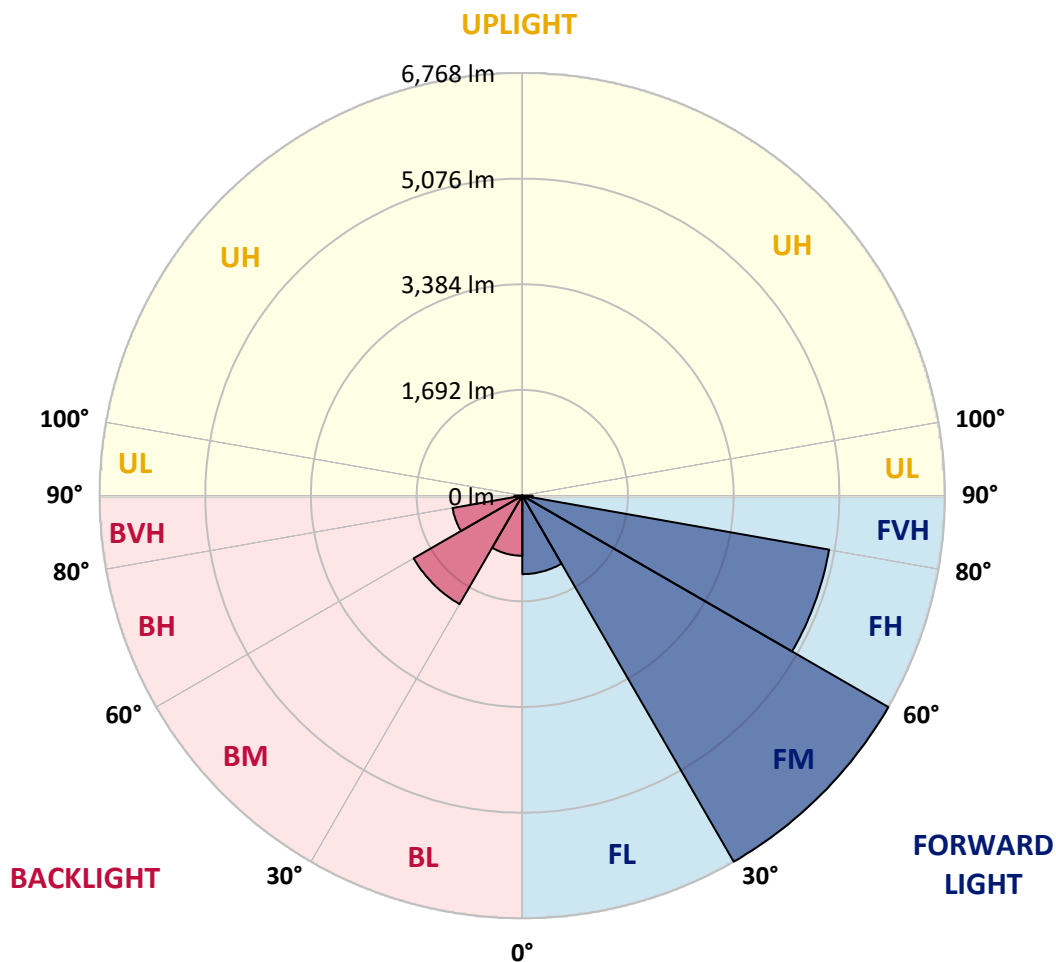
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.0	7.2			
FM	(30°-60°)	6767.9	38.9			
FH	(60°-80°)	4987.3	28.7			G2/5000
FVH	(80°-90°)	165.5	1.0			G2/225
BL	(0°-30°)	963.0	5.5	B2/1000		
BM	(30°-60°)	2007.3	11.5	B2/2500		
BH	(60°-80°)	1134.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	123.5	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°	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4
2.5°	2361.6	2360.6	2363.5	2360.6	2362.5	2355.7	2352.8	2354.8	2351.9	2347.0	2338.3
5°	2390.7	2389.7	2390.7	2386.8	2388.7	2384.8	2378.1	2380.0	2375.1	2364.5	2351.9
7.5°	2440.1	2436.3	2436.3	2435.3	2431.4	2425.6	2420.7	2418.8	2413.9	2400.4	2381.0
10°	2504.2	2504.2	2505.2	2497.4	2502.2	2491.6	2486.7	2485.7	2469.3	2451.8	2424.6
12.5°	2588.6	2593.4	2590.5	2586.7	2584.7	2580.8	2564.3	2568.2	2549.8	2519.7	2486.7
15°	2693.4	2701.1	2696.3	2694.3	2689.5	2674.9	2668.2	2665.2	2641.0	2597.3	2553.7
17.5°	2832.1	2822.4	2818.5	2813.7	2793.3	2782.6	2771.0	2769.1	2747.7	2696.3	2628.4
20°	2953.4	2967.0	2959.2	2954.4	2934.0	2913.6	2904.9	2902.0	2883.5	2827.3	2718.6
22.5°	3098.0	3100.9	3103.8	3092.1	3082.4	3066.9	3051.4	3046.5	3039.8	2981.5	2848.6
25°	3252.2	3263.9	3254.2	3242.5	3230.9	3229.9	3244.5	3242.5	3239.6	3183.3	3021.3
27.5°	3503.5	3514.2	3517.1	3504.5	3459.9	3463.7	3496.7	3507.4	3552.0	3458.9	3243.5
30°	3645.2	3655.9	3680.1	3727.6	3798.5	3860.6	3940.1	3964.4	4007.1	3831.5	3507.4
32.5°	3732.5	3736.4	3780.0	3868.3	4080.8	4312.7	4529.1	4537.8	4565.0	4318.5	3749.0
35°	3870.3	3873.2	3908.1	4005.1	4254.5	4640.6	4975.4	4986.0	4963.7	4469.9	3861.5
37.5°	4040.1	4047.8	4070.1	4150.7	4448.5	4915.2	5160.7	5152.9	4955.0	4590.2	4060.4
40°	4287.5	4287.5	4261.3	4369.9	4653.3	5072.4	5225.7	5212.1	5159.7	4938.5	4363.2
42.5°	4505.8	4501.9	4564.0	4637.7	4909.4	5315.0	5498.3	5520.6	5607.0	5376.1	4707.6
45°	4790.1	4807.5	4842.5	4976.3	5345.0	5729.2	5966.0	5987.3	6109.6	5891.3	5110.2
47.5°	5077.2	5083.1	5192.7	5371.2	5884.5	6291.0	6485.1	6520.0	6631.6	6493.8	5543.9
50°	5281.0	5336.3	5511.9	5793.3	6440.4	6976.0	7127.4	7169.1	7366.0	7149.7	6049.4
52.5°	5496.4	5550.7	5765.1	6194.0	7078.8	7676.5	7862.8	7890.9	8095.7	7813.3	6566.6
55°	5680.7	5731.2	5974.7	6549.1	7587.3	8391.6	8729.2	8696.2	8794.2	8324.6	6965.3
57.5°	5710.8	5751.6	6058.2	6776.1	7969.5	9004.8	9488.9	9508.3	9394.8	8706.9	7294.2
60°	5478.0	5561.4	5913.6	6751.9	8141.3	9431.7	10055.5	10069.1	9747.0	8902.9	7425.2
62.5°	5065.6	5056.9	5482.8	6361.8	7900.6	9528.7	10389.3	10374.7	9884.8	8808.8	7298.1
64°	4496.1	4600.9	4998.7	5882.5	7512.5	9379.3	10424.2	10416.5	9818.8	8612.8	7081.8
65°	4148.7	4142.9	4535.9	5490.6	7126.4	9154.2	10362.1	10351.5	9681.0	8437.2	6913.9
67.5°	2995.1	3008.7	3396.8	4237.0	5793.3	8274.2	9957.5	9917.8	9137.7	7855.0	6275.5
70°	1814.3	1822.1	2126.8	2810.8	4158.4	6688.8	8975.7	8977.6	8306.2	6985.7	5341.2
72.5°	955.7	976.1	1098.3	1596.0	2525.5	4693.0	7281.6	7454.3	7131.2	5962.1	4219.6
75°	531.7	534.6	621.0	786.9	1288.5	2626.4	5473.1	5522.6	5645.8	4798.8	3120.3
77.5°	405.6	411.4	438.5	508.4	701.5	1217.6	3312.4	3560.8	3978.9	3383.2	1780.4
80°	328.9	334.7	358.0	399.7	466.7	577.3	1538.8	1672.7	2129.7	1501.9	694.7
82.5°	256.1	252.3	282.3	309.5	339.6	341.5	631.6	698.6	867.4	646.2	300.8
85°	190.2	190.2	214.4	208.6	219.3	199.9	278.5	307.6	347.3	274.6	139.7
87.5°	75.7	83.4	140.7	126.1	98.0	78.6	102.8	108.7	120.3	107.7	58.2
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°	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4	2335.4
2.5°	2339.2	2342.2	2335.4	2330.5	2328.6	2325.7	2322.7	2323.7	2327.6	2331.5	2330.5
5°	2350.9	2351.9	2340.2	2334.4	2330.5	2326.6	2326.6	2329.5	2337.3	2343.1	2343.1
7.5°	2380.0	2380.0	2363.5	2352.8	2347.0	2340.2	2338.3	2339.2	2345.1	2352.8	2353.8
10°	2425.6	2421.7	2400.4	2383.9	2373.2	2356.7	2342.2	2334.4	2337.3	2342.2	2342.2
12.5°	2480.9	2470.2	2443.1	2420.7	2394.5	2363.5	2333.4	2317.9	2316.9	2321.8	2319.8
15°	2540.1	2528.4	2490.6	2449.8	2404.2	2358.6	2322.7	2300.4	2283.0	2278.1	2288.8
17.5°	2609.0	2584.7	2532.3	2476.0	2408.1	2348.9	2292.7	2247.1	2216.0	2207.3	2210.2
20°	2692.4	2660.4	2589.6	2501.3	2405.2	2314.0	2226.7	2165.6	2115.1	2099.6	2101.5
22.5°	2807.9	2752.6	2648.7	2513.9	2381.0	2248.0	2126.8	2047.2	1986.1	1961.8	1976.4
25°	2938.8	2878.7	2705.0	2511.0	2317.9	2142.3	2008.4	1904.6	1849.3	1813.4	1821.1
27.5°	3119.3	3012.6	2765.2	2484.8	2227.7	2013.2	1858.0	1760.0	1709.6	1691.1	1699.9
30°	3350.2	3186.3	2830.2	2413.9	2085.0	1850.2	1706.6	1642.6	1612.5	1589.2	1597.0
32.5°	3517.1	3308.5	2844.7	2294.6	1930.8	1701.8	1603.8	1556.3	1523.3	1501.0	1505.8
35°	3636.4	3412.3	2837.9	2148.1	1769.7	1579.5	1522.3	1483.5	1430.1	1381.6	1372.9
37.5°	3796.5	3542.3	2788.5	1988.0	1610.6	1497.1	1456.3	1384.5	1307.9	1242.9	1240.0
40°	4042.0	3694.7	2682.7	1799.8	1474.8	1436.0	1386.5	1293.3	1210.9	1158.5	1154.6
42.5°	4295.2	3835.3	2539.1	1601.9	1363.2	1371.9	1311.8	1219.6	1169.1	1135.2	1131.3
45°	4604.7	3987.7	2383.9	1430.1	1280.7	1311.8	1246.8	1193.4	1163.3	1141.0	1135.2
47.5°	4939.5	4143.9	2209.2	1275.9	1210.9	1256.5	1219.6	1195.3	1178.8	1163.3	1156.5
50°	5300.4	4318.5	2045.3	1151.7	1147.8	1199.2	1216.7	1207.9	1198.2	1193.4	1187.6
52.5°	5696.3	4497.0	1907.5	1064.3	1092.5	1158.5	1217.6	1224.4	1224.4	1221.5	1217.6
55°	5964.0	4621.2	1767.8	993.5	1036.2	1125.5	1215.7	1241.9	1251.6	1247.7	1243.8
57.5°	6162.0	4689.2	1592.2	932.4	988.7	1093.5	1205.0	1243.8	1253.5	1258.4	1256.5
60°	6202.7	4626.1	1362.2	868.4	937.2	1046.9	1166.2	1214.7	1227.3	1257.4	1260.3
62.5°	6019.3	4432.0	1133.2	805.3	874.2	976.1	1113.8	1181.7	1207.0	1253.5	1258.4
64°	5794.3	4214.7	1006.1	765.5	833.4	936.3	1087.6	1173.0	1206.0	1268.1	1272.0
65°	5629.3	4056.6	926.6	740.3	807.2	910.1	1073.1	1175.9	1214.7	1290.4	1296.2
67.5°	5021.9	3512.3	766.5	681.1	745.1	865.5	1076.0	1200.2	1212.8	1299.1	1298.2
70°	4155.5	2796.2	642.3	626.8	685.0	829.6	1064.3	1161.4	1162.3	1219.6	1206.0
72.5°	3111.5	2066.6	556.9	570.5	618.0	744.2	1005.2	1109.0	1092.5	1100.2	1086.7
75°	2137.4	1367.1	479.3	510.3	548.2	657.8	921.7	1007.1	980.9	971.2	961.5
77.5°	1141.0	755.8	398.8	451.2	476.4	568.6	804.3	886.8	859.6	821.8	809.2
80°	461.8	356.1	321.1	373.5	388.1	458.0	669.5	720.9	700.5	634.5	613.2
82.5°	231.9	213.5	252.3	294.0	295.0	327.0	497.7	546.2	500.6	420.1	401.7
85°	121.3	125.2	173.7	206.7	182.4	176.6	298.8	330.9	303.7	263.9	237.7
87.5°	43.7	50.5	91.2	90.2	64.0	34.0	66.0	32.0	17.5	10.7	13.6
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)