

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: P651923

Luminaire Tested: **GALN-SA5A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651923
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-SA5A-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19100 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

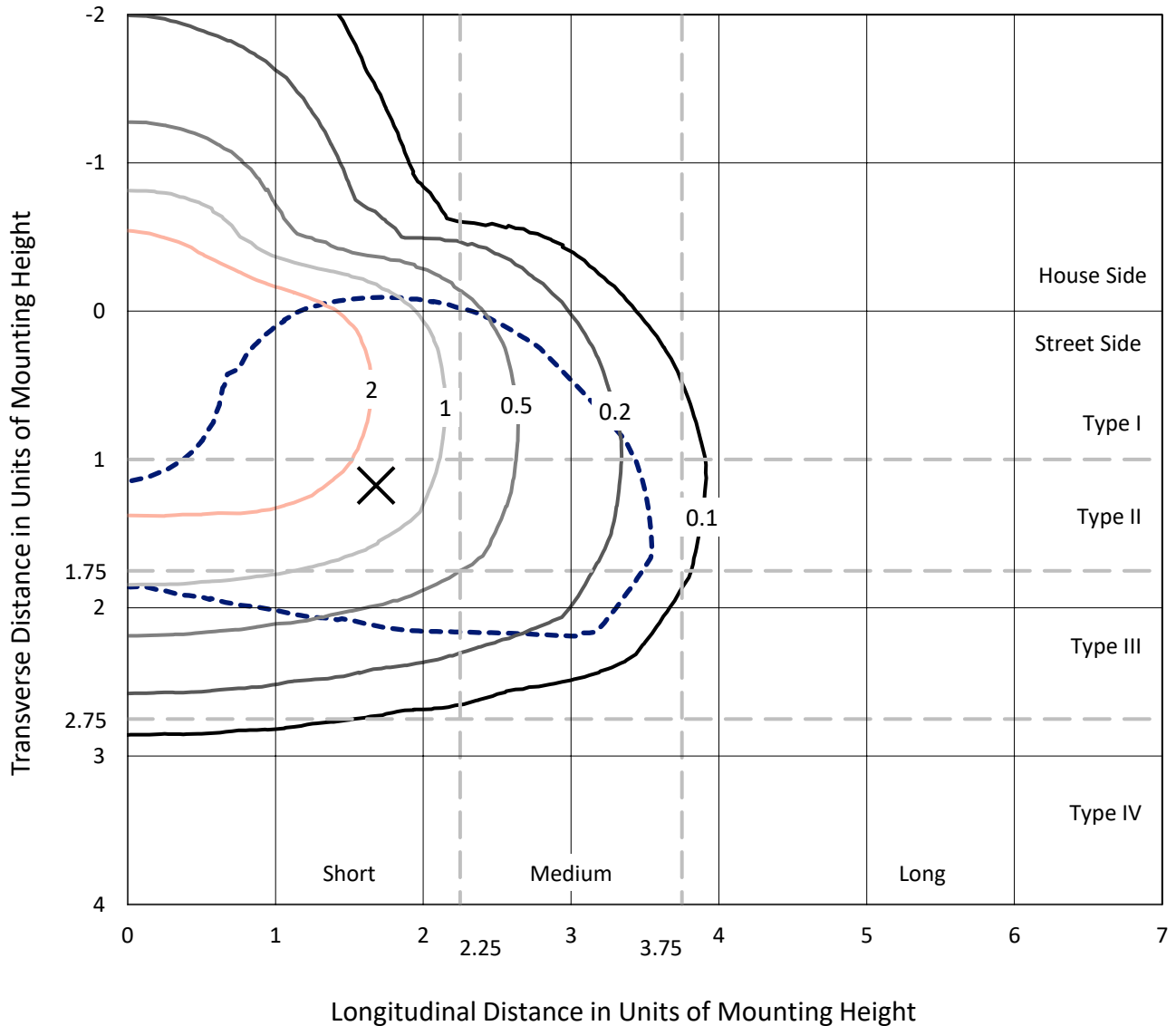
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

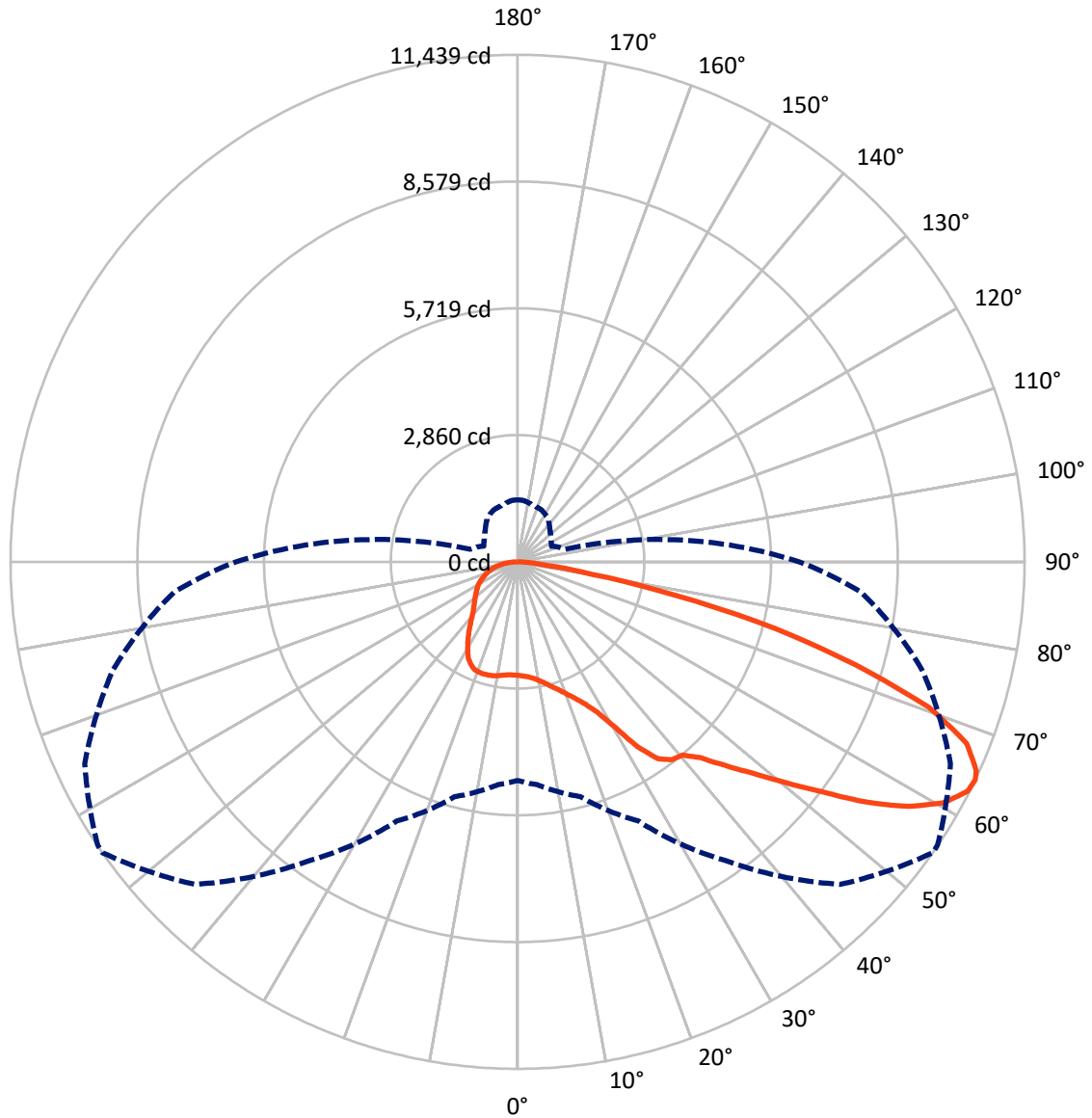
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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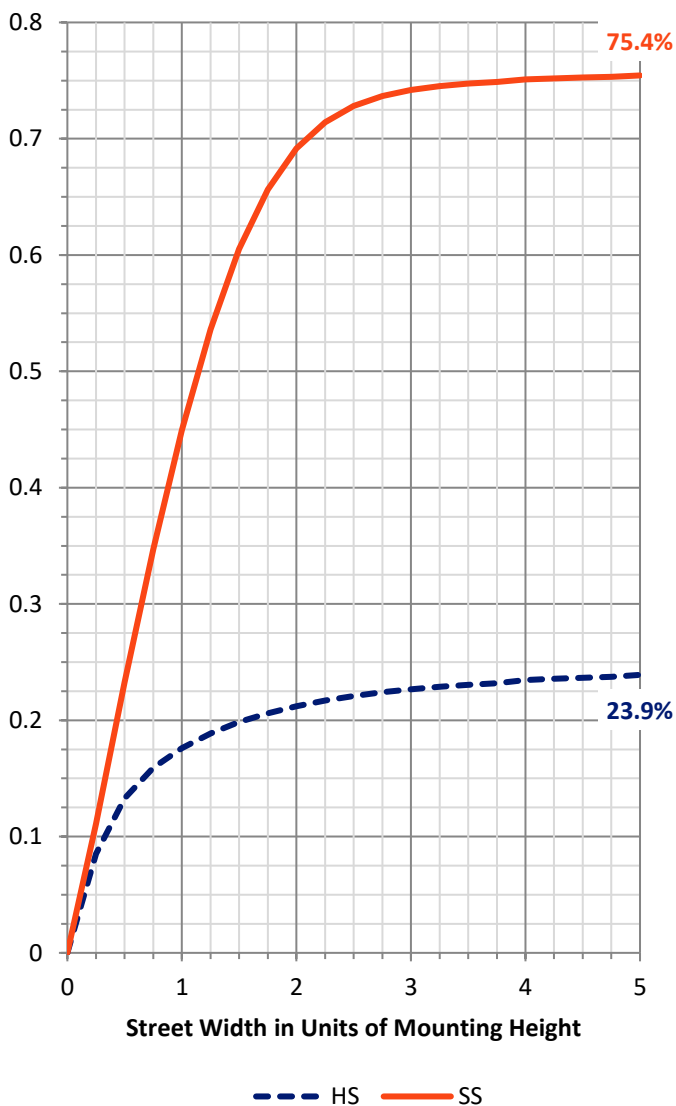
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4639.8	0.0	4639.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	14460.2	0.0	14460.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	19100.0	0.0	19100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	1.3
10°-20°	786.5	4.1
20°-30°	1400.3	7.3
30°-40°	2154.4	11.3
40°-50°	3054.1	16.0
50°-60°	4420.7	23.1
60°-70°	4575.0	24.0
70°-80°	2142.5	11.2
80°-90°	317.2	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°	19100.0	100.0
0°-180°	19100.0	100.0

Coefficient of Utilization



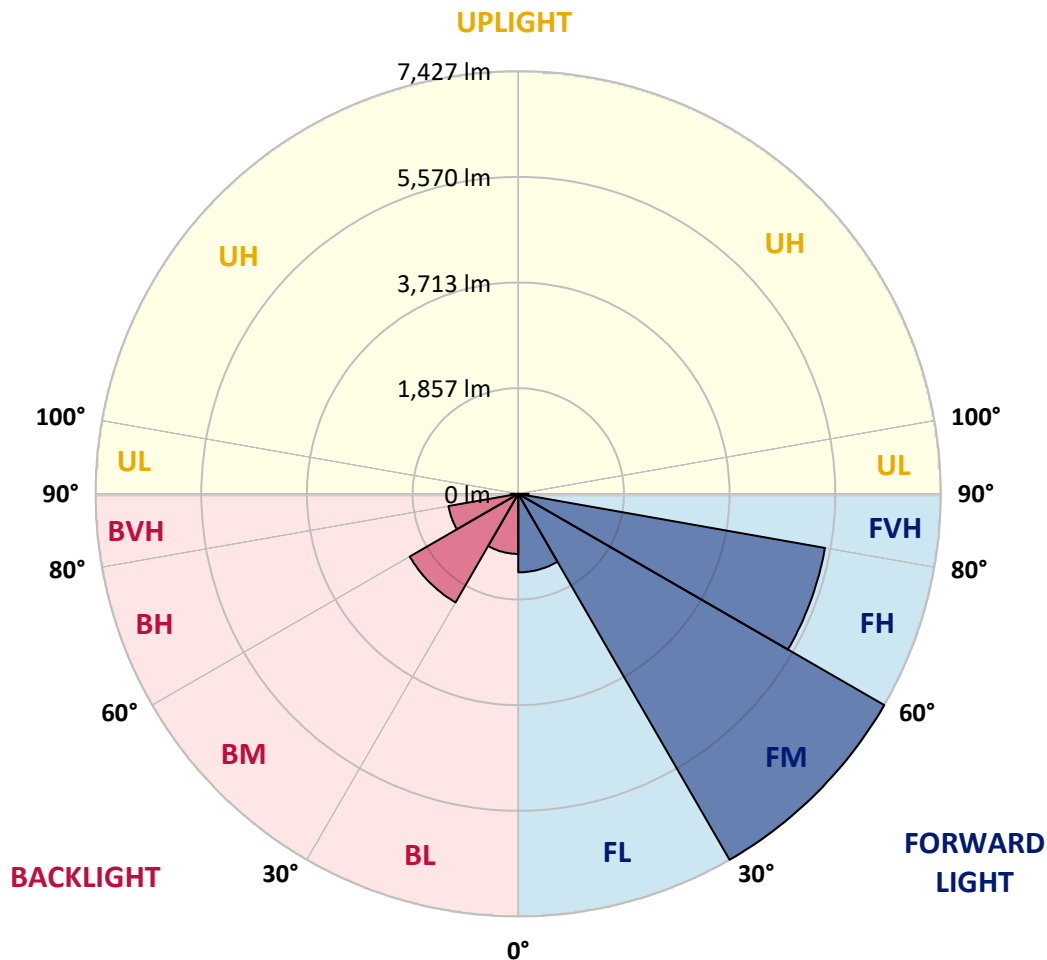
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.3	7.2			
FM (30°-60°)	7426.6	38.9			
FH (60°-80°)	5472.7	28.7			G3/7500
FVH (80°-90°)	181.6	1.0			G2/225
BL (0°-30°)	1056.8	5.5	B3/2500		
BM (30°-60°)	2202.7	11.5	B2/2500		
BH (60°-80°)	1244.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	135.6	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°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2591.4	2590.3	2593.5	2590.3	2592.5	2585.0	2581.8	2583.9	2580.8	2575.4	2565.8
5°	2623.3	2622.2	2623.3	2619.0	2621.2	2616.9	2609.5	2611.6	2606.3	2594.6	2580.8
7.5°	2677.7	2673.4	2673.4	2672.3	2668.1	2661.7	2656.3	2654.2	2648.9	2633.9	2612.7
10°	2747.9	2747.9	2749.0	2740.4	2745.8	2734.0	2728.7	2727.7	2709.5	2690.4	2660.6
12.5°	2840.5	2845.9	2842.7	2838.4	2836.3	2832.0	2813.9	2818.2	2797.9	2765.0	2728.7
15°	2955.5	2964.0	2958.7	2956.5	2951.2	2935.3	2927.8	2924.7	2898.0	2850.1	2802.2
17.5°	3107.7	3097.1	3092.9	3087.5	3065.2	3053.4	3040.6	3038.5	3015.2	2958.7	2884.1
20°	3240.8	3255.8	3247.2	3241.9	3219.5	3197.1	3187.6	3184.4	3164.2	3102.4	2983.2
22.5°	3399.5	3402.7	3405.9	3393.1	3382.4	3365.4	3348.4	3343.1	3335.6	3271.7	3125.8
25°	3568.7	3581.5	3570.9	3558.1	3545.3	3544.2	3560.2	3558.1	3554.9	3493.2	3315.4
27.5°	3844.5	3856.2	3859.4	3845.6	3796.6	3800.8	3837.1	3848.8	3897.7	3795.5	3559.2
30°	4000.0	4011.7	4038.2	4090.5	4168.2	4236.3	4323.6	4350.2	4397.1	4204.3	3848.8
32.5°	4095.8	4100.0	4147.9	4244.8	4478.0	4732.4	4969.8	4979.4	5009.2	4738.8	4113.8
35°	4247.0	4250.2	4288.4	4394.9	4668.6	5092.3	5459.6	5471.3	5446.8	4904.9	4237.4
37.5°	4433.2	4441.7	4466.2	4554.6	4881.5	5393.6	5663.0	5654.4	5437.2	5036.9	4455.6
40°	4704.7	4704.7	4676.0	4795.2	5106.1	5566.1	5734.3	5719.4	5661.9	5419.2	4787.8
42.5°	4944.3	4940.0	5008.2	5089.1	5387.2	5832.2	6033.4	6057.9	6152.7	5899.3	5165.8
45°	5256.2	5275.4	5313.7	5460.6	5865.2	6286.8	6546.6	6570.0	6704.2	6464.6	5607.5
47.5°	5571.4	5577.8	5698.0	5894.0	6457.2	6903.3	7116.2	7154.6	7276.9	7125.8	6083.5
50°	5794.9	5855.6	6048.3	6357.1	7067.2	7654.9	7821.0	7866.8	8082.9	7845.5	6638.2
52.5°	6031.3	6090.9	6326.2	6796.8	7767.7	8423.6	8628.0	8658.9	8883.5	8573.7	7205.6
55°	6233.6	6288.9	6556.2	7186.4	8325.6	9208.3	9578.7	9542.6	9650.1	9134.8	7643.2
57.5°	6266.6	6311.3	6647.8	7435.6	8745.1	9881.1	10412.3	10433.7	10309.1	9554.3	8004.1
60°	6011.0	6102.6	6489.1	7409.0	8933.5	10349.6	11034.2	11049.1	10695.6	9769.3	8147.9
62.5°	5558.6	5549.0	6016.4	6981.0	8669.5	10456.1	11400.3	11384.4	10846.8	9666.0	8008.3
64°	4933.6	5048.6	5485.2	6455.0	8243.7	10292.1	11438.7	11430.2	10774.4	9451.0	7770.9
65°	4552.5	4546.1	4977.3	6024.9	7820.0	10045.1	11370.6	11358.9	10623.2	9258.3	7586.7
67.5°	3286.6	3301.5	3727.4	4649.4	6357.1	9079.4	10926.6	10883.0	10027.0	8619.5	6886.2
70°	1990.9	1999.4	2333.8	3084.3	4563.1	7339.7	9849.2	9851.3	9114.6	7665.5	5860.9
72.5°	1048.7	1071.0	1205.2	1751.4	2771.3	5149.8	7990.3	8179.8	7825.3	6542.3	4630.2
75°	583.4	586.6	681.4	863.5	1413.9	2882.0	6005.7	6060.1	6195.2	5265.8	3424.0
77.5°	445.1	451.4	481.2	557.9	769.8	1336.2	3634.7	3907.3	4366.1	3712.5	1953.6
80°	361.0	367.3	392.8	438.7	512.1	633.4	1688.6	1835.5	2337.0	1648.1	762.3
82.5°	281.1	276.8	309.8	339.6	372.6	374.7	693.1	766.6	951.8	709.0	330.0
85°	208.7	208.7	235.3	228.9	240.6	219.3	305.5	337.5	381.1	301.3	153.3
87.5°	83.0	91.6	154.4	138.4	107.6	86.2	112.9	119.3	132.0	118.2	63.9
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°	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6	2562.6
2.5°	2566.9	2570.1	2562.6	2557.3	2555.2	2552.0	2548.8	2549.8	2554.1	2558.4	2557.3
5°	2579.7	2580.8	2568.0	2561.6	2557.3	2553.0	2553.0	2556.2	2564.8	2571.2	2571.2
7.5°	2611.6	2611.6	2593.5	2581.8	2575.4	2568.0	2565.8	2566.9	2573.3	2581.8	2582.9
10°	2661.7	2657.4	2633.9	2615.8	2604.2	2586.1	2570.1	2561.6	2564.8	2570.1	2570.1
12.5°	2722.3	2710.6	2680.9	2656.3	2627.6	2593.5	2560.5	2543.4	2542.4	2547.7	2545.6
15°	2787.2	2774.5	2733.0	2688.3	2638.2	2588.2	2548.8	2524.3	2505.2	2499.8	2511.6
17.5°	2862.8	2836.3	2778.7	2717.0	2642.5	2577.6	2515.8	2465.7	2431.7	2422.1	2425.3
20°	2954.4	2919.3	2841.6	2744.7	2639.3	2539.2	2443.4	2376.3	2321.0	2303.9	2306.0
22.5°	3081.1	3020.5	2906.5	2758.6	2612.7	2466.8	2333.8	2246.4	2179.4	2152.7	2168.7
25°	3224.8	3158.9	2968.3	2755.4	2543.4	2350.8	2203.8	2090.0	2029.2	1989.9	1998.4
27.5°	3422.9	3305.8	3034.2	2726.6	2444.5	2209.1	2038.8	1931.3	1875.9	1855.7	1865.3
30°	3676.3	3496.4	3105.6	2648.9	2287.9	2030.3	1872.7	1802.4	1769.5	1743.9	1752.4
32.5°	3859.4	3630.5	3121.6	2518.0	2118.6	1867.4	1759.9	1707.7	1671.5	1647.0	1652.3
35°	3990.4	3744.4	3114.1	2357.2	1942.0	1733.3	1670.5	1627.8	1569.3	1516.1	1506.5
37.5°	4166.0	3887.1	3059.8	2181.5	1767.4	1642.8	1598.1	1519.3	1435.2	1363.8	1360.7
40°	4435.3	4054.2	2943.8	1974.9	1618.3	1575.7	1521.4	1419.2	1328.7	1271.2	1267.0
42.5°	4713.2	4208.6	2786.2	1757.8	1495.9	1505.4	1439.5	1338.3	1282.9	1245.7	1241.4
45°	5052.9	4375.7	2615.8	1569.3	1405.3	1439.5	1368.1	1309.5	1276.6	1252.1	1245.7
47.5°	5420.2	4547.2	2424.3	1400.0	1328.7	1378.7	1338.3	1311.6	1293.5	1276.6	1269.1
50°	5816.3	4738.8	2244.3	1263.8	1259.5	1315.9	1335.1	1325.5	1314.8	1309.5	1303.1
52.5°	6250.6	4934.7	2093.1	1167.9	1198.8	1271.2	1336.2	1343.6	1343.6	1340.4	1336.2
55°	6544.5	5071.0	1939.9	1090.2	1137.0	1235.0	1334.0	1362.8	1373.4	1369.1	1364.9
57.5°	6761.6	5145.5	1747.1	1023.2	1084.9	1199.9	1322.3	1364.9	1375.5	1380.8	1378.7
60°	6806.4	5076.3	1494.8	952.9	1028.5	1148.8	1279.7	1333.0	1346.8	1379.8	1383.0
62.5°	6605.1	4863.3	1243.5	883.6	959.2	1071.0	1222.2	1296.7	1324.4	1375.5	1380.8
64°	6358.1	4624.9	1104.1	840.0	914.5	1027.4	1193.5	1287.2	1323.4	1391.5	1395.8
65°	6177.1	4451.3	1016.8	812.3	885.8	998.7	1177.5	1290.3	1333.0	1416.0	1422.4
67.5°	5510.7	3854.1	841.1	747.4	817.6	949.7	1180.7	1317.0	1330.8	1425.6	1424.5
70°	4559.9	3068.4	704.8	687.8	751.7	910.3	1167.9	1274.4	1275.5	1338.3	1323.4
72.5°	3414.4	2267.8	611.2	626.0	678.2	816.6	1103.0	1216.9	1198.8	1207.3	1192.5
75°	2345.5	1500.1	526.0	560.0	601.6	721.8	1011.4	1105.2	1076.4	1065.7	1055.1
77.5°	1252.1	829.4	437.6	495.1	522.8	623.9	882.6	973.1	943.3	901.8	887.9
80°	506.8	390.7	352.4	409.9	425.9	502.5	734.6	791.0	768.7	696.3	672.9
82.5°	254.5	234.2	276.8	322.6	323.6	358.8	546.1	599.4	549.3	461.0	440.8
85°	133.0	137.3	190.6	226.7	200.2	193.8	327.9	363.1	333.2	289.6	260.9
87.5°	47.9	55.3	100.1	99.0	70.3	37.3	72.4	35.2	19.2	11.7	14.9
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)