

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: P647850

Luminaire Tested: **GALN-SA3A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9331 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

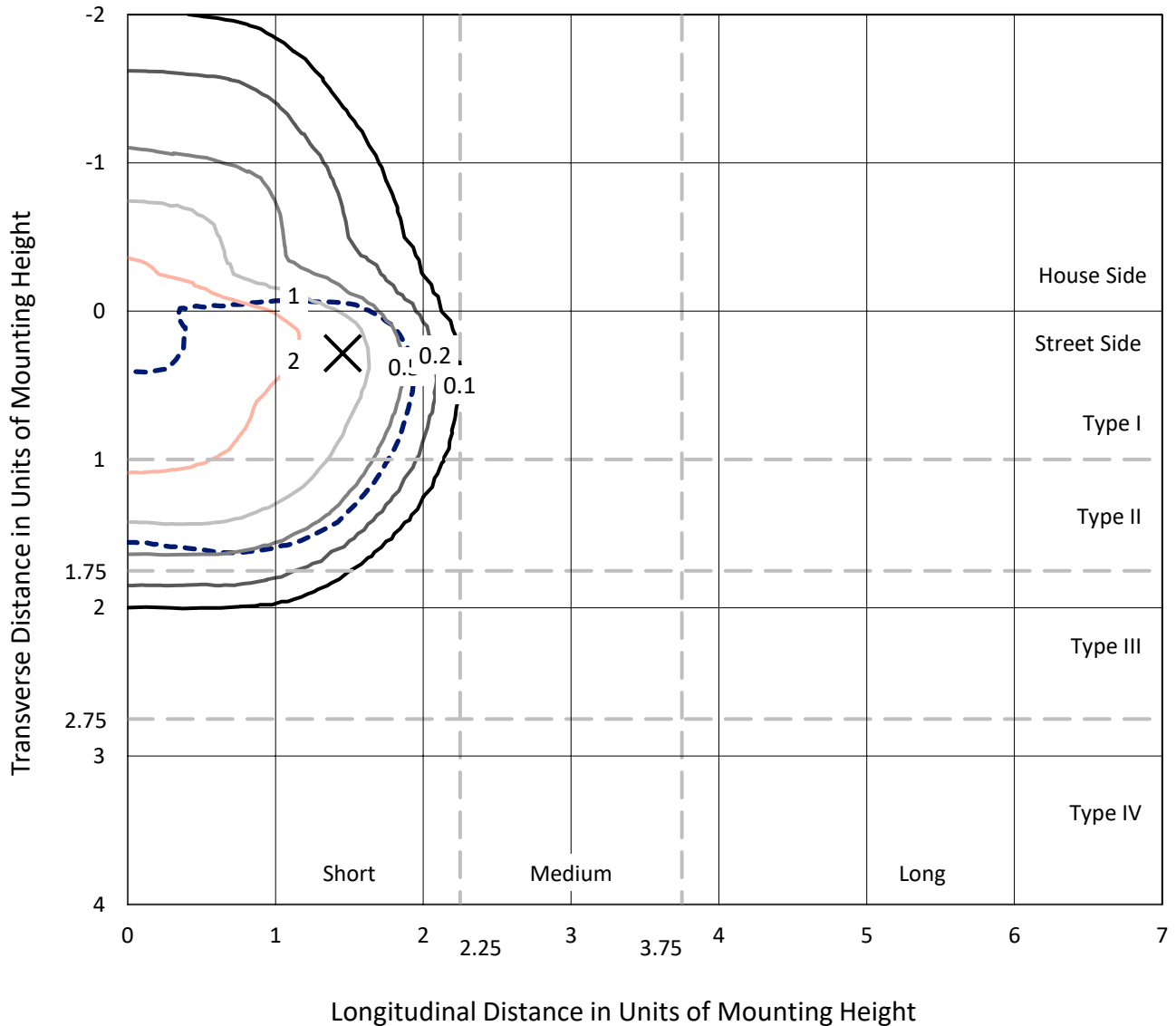
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

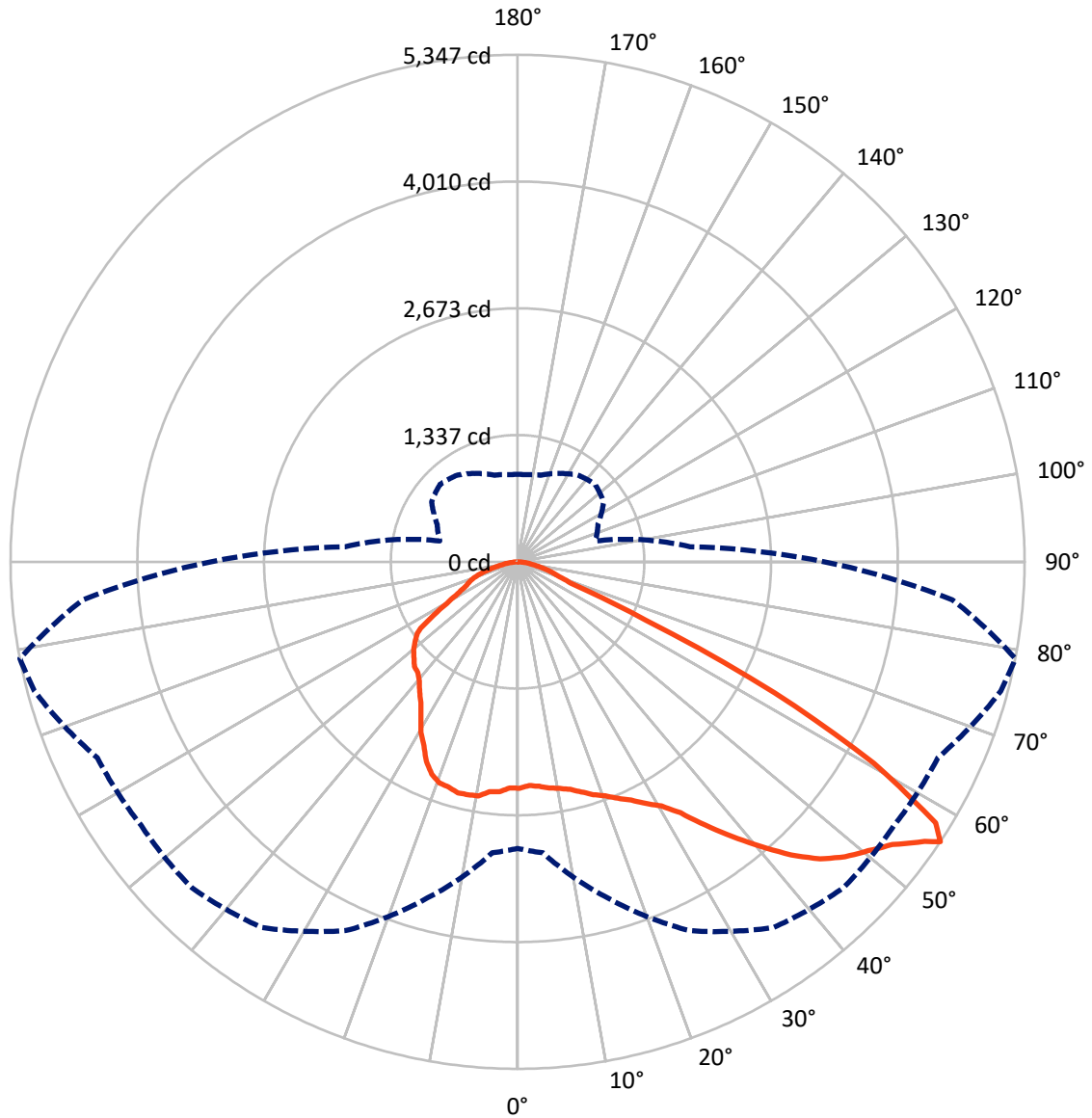
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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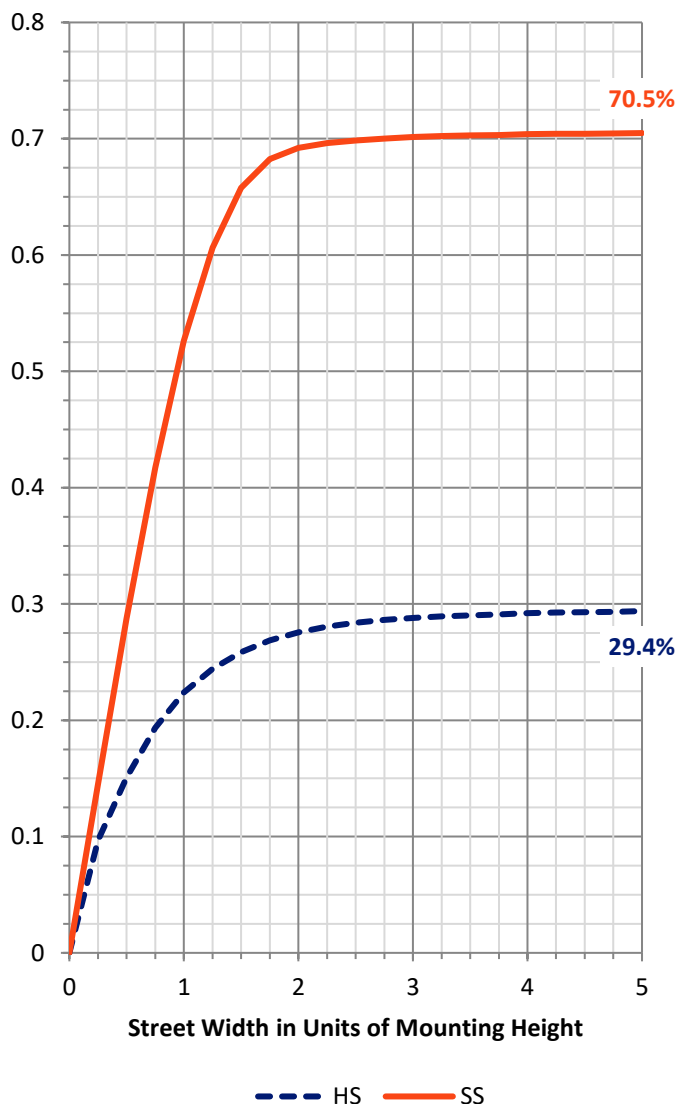
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2755.6	0.0	2755.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6575.4	0.0	6575.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	9331.0	0.0	9331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	2.3
10°-20°	594.0	6.4
20°-30°	1016.3	10.9
30°-40°	1557.6	16.7
40°-50°	2105.1	22.6
50°-60°	2417.8	25.9
60°-70°	1102.1	11.8
70°-80°	271.7	2.9
80°-90°	49.4	0.5
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°	9331.0	100.0
0°-180°	9331.0	100.0

Coefficient of Utilization

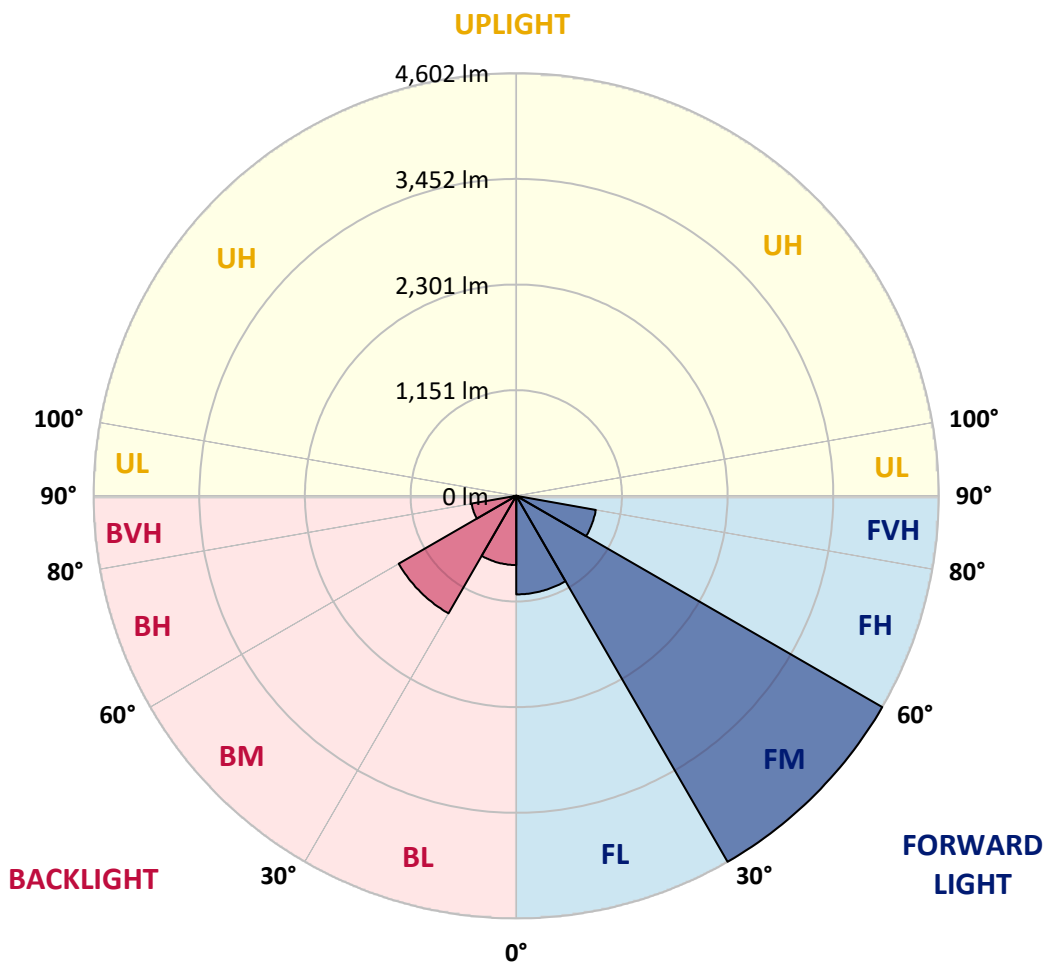


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.6	11.5			
FM (30°-60°)	4602.3	49.3			
FH (60°-80°)	879.7	9.4			G1/1800
FVH (80°-90°)	19.7	0.2			G1/100
BL (0°-30°)	753.8	8.1	B2/1000		
BM (30°-60°)	1478.1	15.8	B2/2500		
BH (60°-80°)	494.1	5.3	B1/500		G1/500
BVH (80°-90°)	29.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4
2.5°	2271.2	2265.4	2279.3	2289.8	2302.6	2318.9	2327.0	2331.6	2372.3	2361.8	2393.2
5°	2222.4	2207.3	2217.8	2225.8	2248.0	2267.7	2289.8	2324.6	2361.8	2378.1	2416.5
7.5°	2179.4	2171.3	2168.9	2174.7	2204.9	2230.5	2268.9	2320.0	2380.5	2407.2	2429.3
10°	2108.5	2096.9	2114.3	2152.6	2160.8	2214.2	2258.4	2331.6	2383.9	2430.4	2495.5
12.5°	2077.1	2065.5	2068.9	2091.1	2148.0	2199.1	2251.4	2334.0	2444.4	2463.0	2550.2
15°	2127.1	2115.4	2119.0	2113.2	2167.7	2194.5	2277.0	2380.5	2486.3	2517.6	2610.6
17.5°	2240.9	2242.1	2227.0	2214.2	2201.5	2258.4	2315.4	2408.4	2502.5	2581.6	2651.3
20°	2458.3	2420.0	2389.8	2317.7	2297.9	2322.4	2394.4	2483.9	2568.8	2633.9	2712.9
22.5°	2625.7	2629.2	2586.2	2467.6	2424.6	2435.1	2496.7	2569.9	2662.9	2709.4	2800.1
25°	2868.7	2844.2	2797.7	2703.6	2607.2	2615.2	2660.6	2726.9	2752.4	2785.0	2883.8
27.5°	3090.7	3097.6	3005.8	2917.5	2797.7	2774.5	2855.8	2867.5	2824.4	2886.1	2919.8
30°	3316.2	3310.4	3249.9	3146.4	3029.0	3033.7	3069.8	3012.7	2953.5	2987.2	3010.5
32.5°	3549.8	3483.5	3481.2	3388.2	3298.7	3255.7	3211.6	3239.4	3147.6	3154.6	3132.5
35°	3736.9	3746.2	3692.7	3626.5	3582.3	3506.7	3385.8	3435.9	3418.4	3410.3	3315.0
37.5°	3872.9	3836.9	3863.6	3841.6	3799.7	3705.5	3580.0	3627.6	3635.8	3675.3	3564.9
40°	3984.5	3969.3	4040.3	4051.9	4022.8	3819.4	3594.0	3735.8	3857.8	3943.8	3812.4
42.5°	4037.9	4070.5	4144.9	4234.4	4169.3	3952.0	3666.0	3818.3	4090.2	4226.2	4047.2
45°	4110.0	4068.2	4178.6	4342.5	4343.6	4063.5	3735.8	3929.9	4271.6	4469.2	4207.7
47.5°	4036.8	4057.7	4171.6	4379.7	4433.1	4180.9	3924.0	4088.0	4471.5	4647.0	4356.5
50°	3872.9	3914.8	4122.8	4339.0	4500.5	4305.3	4140.3	4258.8	4656.3	4790.0	4380.8
52.5°	3702.0	3725.3	4050.8	4370.4	4530.8	4465.7	4429.7	4494.7	4881.8	4951.5	4411.0
55°	3237.1	3347.6	3812.4	4356.5	4678.4	4755.1	4727.2	4822.5	5137.5	5207.3	4576.1
56°	3022.1	3080.2	3669.5	4291.3	4707.5	4860.9	4846.9	4889.9	5273.5	5346.7	4601.7
57.5°	2624.5	2629.2	3129.0	4003.1	4598.2	4892.3	4878.3	4912.0	5246.8	5196.8	4377.4
60°	1642.3	1714.5	2129.4	3079.0	3910.1	4538.9	4618.0	4347.1	4423.9	4318.1	3405.7
62.5°	850.8	840.4	1115.9	1800.4	2595.5	3249.9	3323.1	3310.4	3191.7	3037.2	2224.7
65°	424.2	426.6	583.5	891.5	1329.7	1701.7	1906.2	1928.3	1613.3	1484.3	1055.4
67.5°	308.0	319.6	419.6	545.1	626.5	700.9	859.0	842.7	638.1	606.7	562.6
70°	239.4	249.9	340.5	416.1	377.8	377.8	411.5	425.4	454.5	467.3	482.4
72.5°	174.4	182.5	260.3	287.1	247.6	266.1	308.0	340.5	370.8	375.4	392.8
75°	119.7	126.7	170.9	158.1	148.8	183.6	225.5	255.7	277.8	289.4	299.9
77.5°	77.9	80.2	97.6	82.5	95.3	118.5	146.4	172.0	194.1	203.4	205.8
80°	34.8	38.4	41.8	52.3	66.2	84.9	104.6	125.5	139.5	143.0	149.9
82.5°	19.7	19.7	25.6	37.2	48.8	61.6	75.6	90.7	107.0	110.4	109.2
85°	10.5	10.5	15.1	22.1	30.2	36.0	34.8	36.0	38.4	44.2	43.0
87.5°	3.5	3.5	4.6	4.6	5.8	7.0	5.8	8.1	10.5	10.5	10.5
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°	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4	2387.4
2.5°	2383.9	2394.4	2380.5	2410.7	2410.7	2404.9	2375.8	2385.1	2392.1	2392.1	2397.9
5°	2429.3	2425.8	2435.1	2399.0	2377.0	2368.8	2321.2	2297.9	2278.1	2277.0	2259.6
7.5°	2454.9	2445.5	2442.1	2415.3	2317.7	2258.4	2156.1	2096.9	2084.0	2038.7	2056.2
10°	2495.5	2513.0	2495.5	2350.3	2214.2	2078.2	1978.3	1886.5	1850.5	1821.4	1804.0
12.5°	2579.2	2571.1	2470.0	2273.5	2082.9	1921.3	1772.6	1676.1	1640.1	1614.5	1612.2
15°	2650.1	2609.4	2454.9	2152.6	1878.3	1706.3	1584.2	1515.7	1499.4	1501.7	1512.2
17.5°	2674.6	2646.6	2375.8	2027.1	1726.0	1523.8	1466.9	1456.4	1471.5	1489.0	1493.6
20°	2712.9	2668.7	2343.3	1856.3	1537.7	1409.9	1406.4	1443.6	1471.5	1497.1	1500.5
22.5°	2793.1	2681.5	2237.5	1694.6	1408.8	1376.2	1409.9	1441.3	1484.3	1505.2	1486.6
25°	2816.4	2653.6	2088.7	1500.5	1327.4	1355.3	1391.3	1434.3	1464.5	1476.2	1484.3
27.5°	2836.1	2610.6	1887.7	1371.6	1301.8	1354.1	1391.3	1427.3	1443.6	1454.1	1463.3
30°	2891.9	2597.8	1713.3	1285.5	1285.5	1330.9	1378.5	1387.8	1409.9	1422.7	1439.0
32.5°	2919.8	2509.5	1534.3	1230.9	1269.2	1342.5	1346.0	1363.4	1364.6	1375.0	1357.6
35°	2993.0	2446.7	1368.1	1191.4	1276.2	1330.9	1348.3	1337.8	1280.9	1253.0	1258.8
37.5°	3046.5	2415.3	1248.3	1186.7	1277.4	1343.6	1352.9	1273.9	1214.7	1168.2	1179.7
40°	3190.6	2337.5	1157.7	1178.6	1287.9	1357.6	1332.0	1246.0	1139.1	1091.4	1083.3
42.5°	3301.0	2281.7	1100.7	1169.3	1296.0	1377.4	1321.5	1190.2	1081.0	1036.8	1048.4
45°	3428.9	2268.9	1070.5	1171.6	1310.0	1387.8	1308.8	1147.3	1031.0	1013.6	1010.1
47.5°	3474.2	2177.1	1037.9	1151.9	1306.4	1384.3	1265.8	1114.7	1012.4	1014.7	1024.0
50°	3398.7	2082.9	1013.6	1111.2	1283.2	1352.9	1198.4	1071.7	1001.9	1031.0	1047.3
52.5°	3302.2	1986.4	963.6	1056.6	1235.6	1304.2	1167.0	1069.3	991.4	982.2	985.6
55°	3331.3	1907.4	893.9	982.2	1158.8	1213.5	1132.1	1047.3	965.9	931.1	942.7
56°	3237.1	1826.0	848.5	935.7	1106.5	1155.4	1114.7	1027.5	945.0	921.7	921.7
57.5°	2970.9	1552.8	789.3	861.3	996.1	1054.2	1081.0	1015.9	921.7	881.0	882.2
60°	2191.0	1104.2	707.8	759.0	825.3	871.7	996.1	983.4	863.6	835.7	825.3
62.5°	1350.6	806.6	649.7	669.5	703.2	741.6	869.4	890.3	802.0	771.8	764.8
65°	756.7	617.2	605.6	613.7	630.0	649.7	721.8	768.3	707.8	661.4	659.1
67.5°	553.3	552.1	561.4	568.4	575.3	575.3	592.8	611.4	603.2	566.0	562.6
70°	491.6	495.2	502.1	503.3	505.6	497.5	483.5	477.7	487.0	463.8	459.2
72.5°	405.7	417.3	425.4	426.6	413.8	403.3	384.8	365.0	358.0	353.4	352.2
75°	311.5	319.6	323.1	322.0	317.3	302.2	280.2	260.3	247.6	233.6	240.6
77.5°	210.4	222.0	227.9	227.9	220.8	197.6	187.1	172.0	159.3	144.2	146.4
80°	147.6	155.7	165.1	163.9	152.3	140.6	125.5	111.6	101.1	89.5	88.3
82.5°	110.4	115.1	119.7	117.4	109.2	97.6	87.1	74.4	62.8	54.7	54.7
85°	39.5	43.0	52.3	54.7	59.3	59.3	50.0	41.8	33.7	27.9	27.9
87.5°	11.6	11.6	12.8	12.8	11.6	12.8	10.5	11.6	12.8	8.1	8.1
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)