

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: P646863

Luminaire Tested: **GALN-SA3C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646863
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-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 16295.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

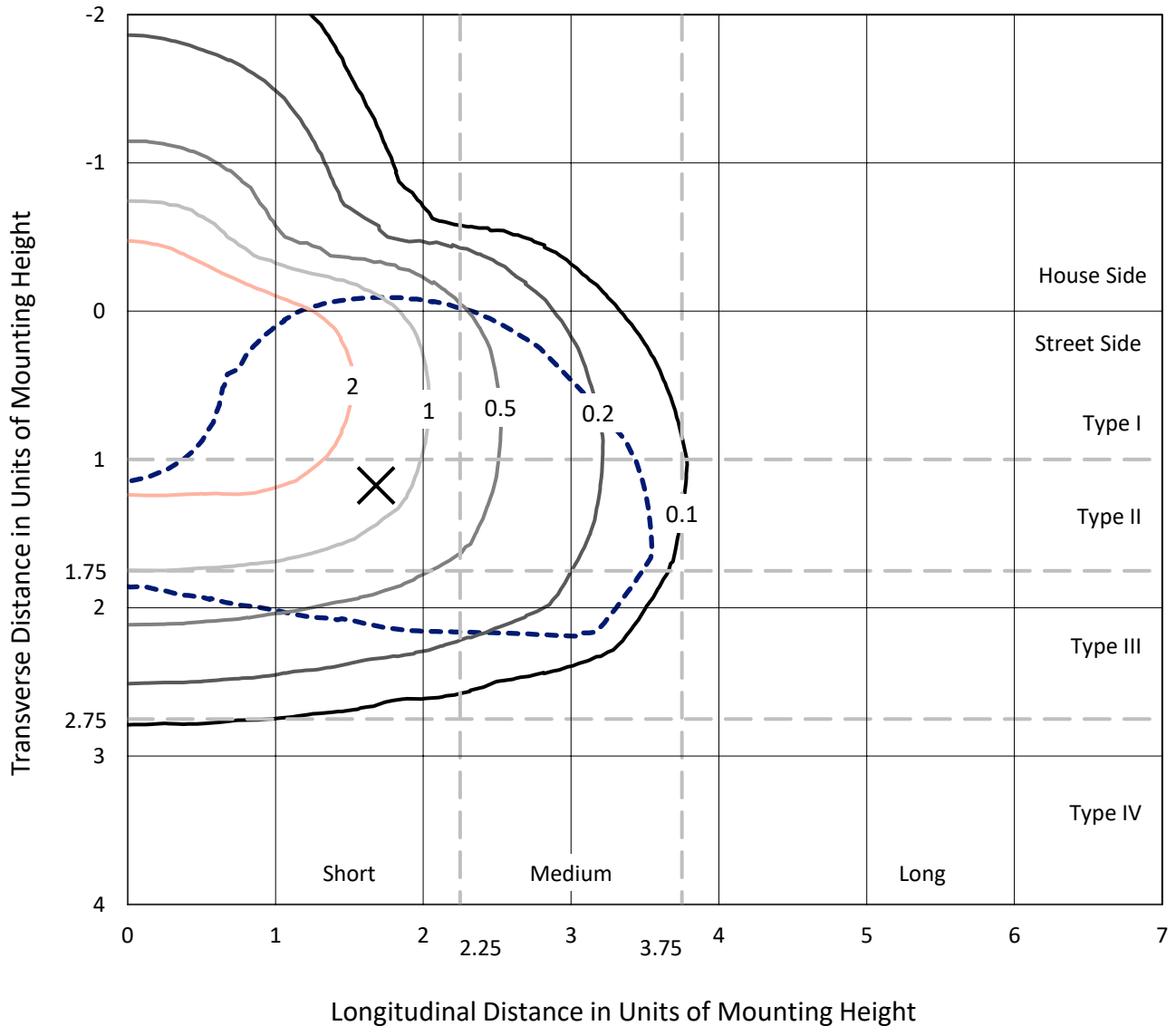
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

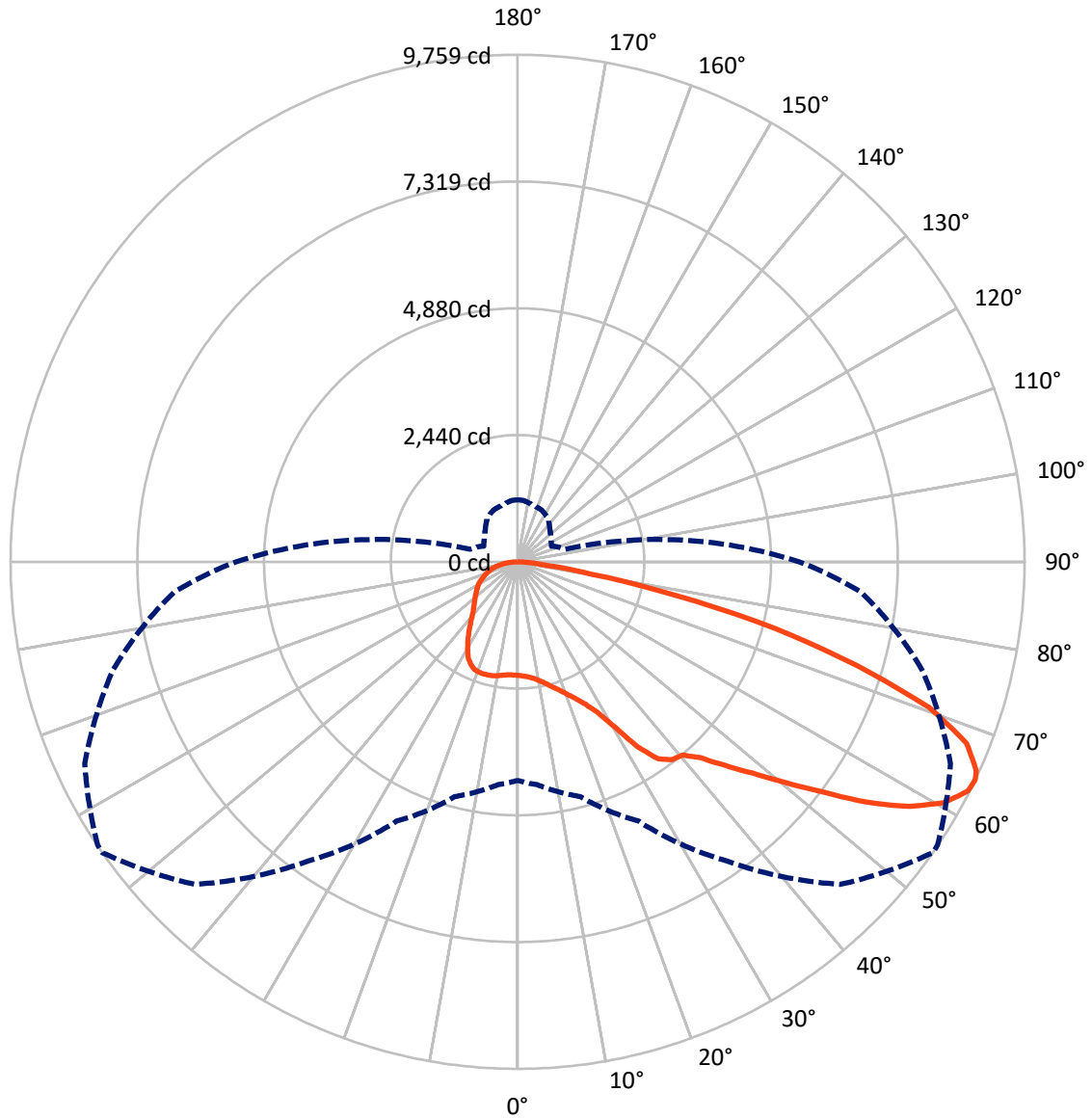
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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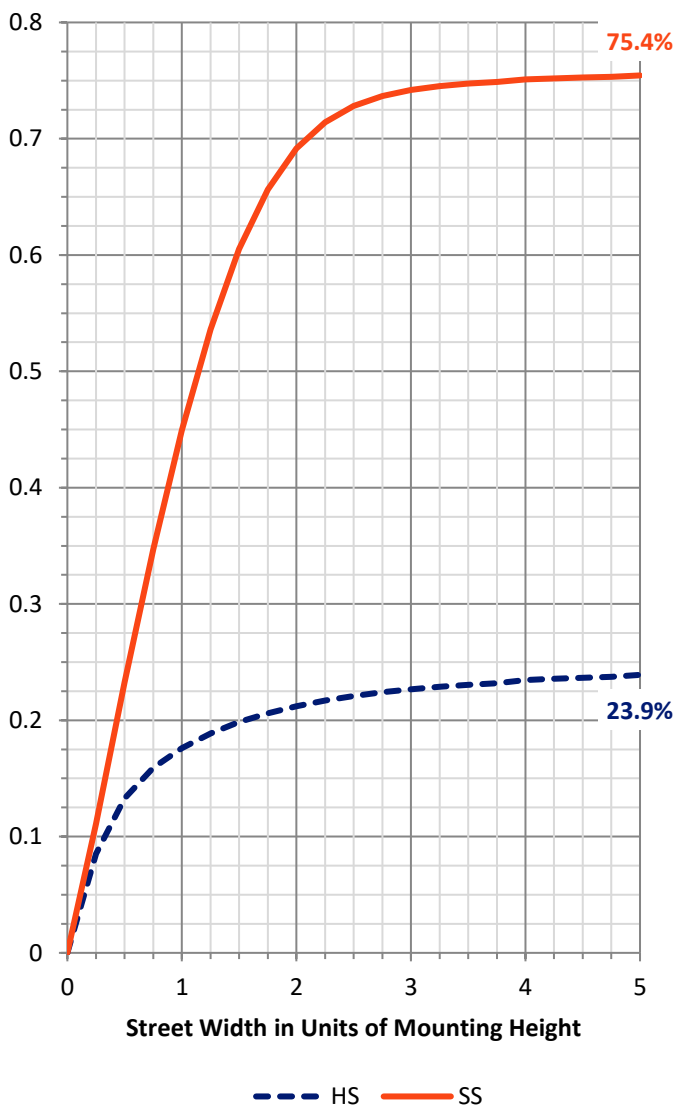
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3958.6	0.0	3958.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12337.2	0.0	12337.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	16295.8	0.0	16295.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.3
10°-20°	671.1	4.1
20°-30°	1194.7	7.3
30°-40°	1838.1	11.3
40°-50°	2605.7	16.0
50°-60°	3771.7	23.1
60°-70°	3903.3	24.0
70°-80°	1827.9	11.2
80°-90°	270.6	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°	16295.8	100.0
0°-180°	16295.8	100.0

Coefficient of Utilization



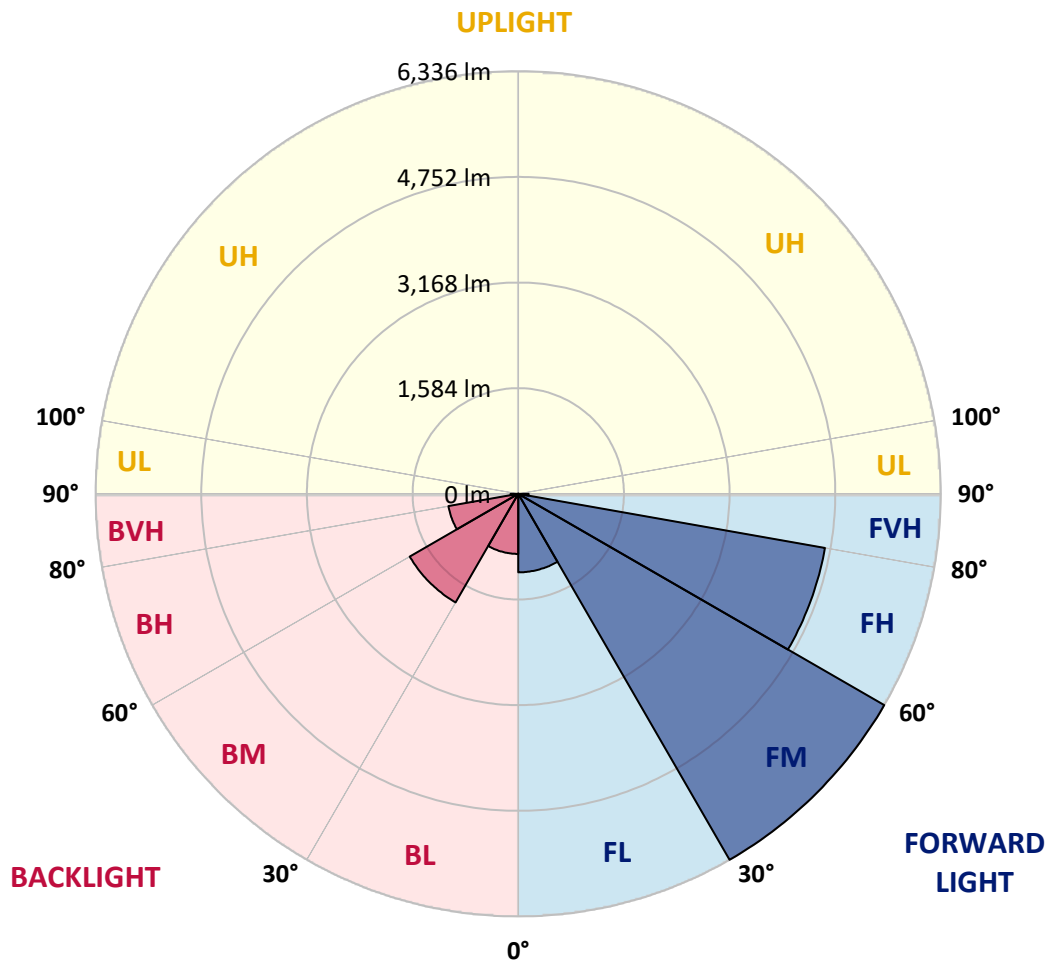
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.8	7.2			
FM (30°-60°)	6336.3	38.9			
FH (60°-80°)	4669.2	28.7			G2/5000
FVH (80°-90°)	154.9	1.0			G2/225
BL (0°-30°)	901.6	5.5	B2/1000		
BM (30°-60°)	1879.3	11.5	B2/2500		
BH (60°-80°)	1062.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	115.7	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°	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4
2.5°	2211.0	2210.0	2212.8	2210.0	2211.8	2205.5	2202.7	2204.5	2201.9	2197.3	2189.1
5°	2238.2	2237.3	2238.2	2234.5	2236.3	2232.7	2226.4	2228.2	2223.6	2213.6	2201.9
7.5°	2284.5	2280.9	2280.9	2279.9	2276.3	2270.9	2266.3	2264.5	2260.0	2247.3	2229.1
10°	2344.5	2344.5	2345.4	2338.1	2342.7	2332.6	2328.1	2327.2	2311.7	2295.4	2270.0
12.5°	2423.5	2428.0	2425.3	2421.7	2419.9	2416.2	2400.8	2404.4	2387.1	2359.0	2328.1
15°	2521.6	2528.9	2524.3	2522.5	2518.0	2504.3	2498.0	2495.3	2472.6	2431.7	2390.8
17.5°	2651.5	2642.4	2638.8	2634.2	2615.1	2605.1	2594.2	2592.4	2572.5	2524.3	2460.7
20°	2765.0	2777.8	2770.5	2765.9	2746.8	2727.8	2719.6	2716.9	2699.6	2646.9	2545.2
22.5°	2900.4	2903.1	2905.8	2894.9	2885.8	2871.3	2856.8	2852.2	2845.9	2791.4	2666.9
25°	3044.8	3055.7	3046.6	3035.7	3024.8	3023.9	3037.5	3035.7	3033.0	2980.3	2828.6
27.5°	3280.1	3290.1	3292.7	3281.0	3239.2	3242.8	3273.7	3283.7	3325.5	3238.3	3036.6
30°	3412.7	3422.6	3445.4	3489.9	3556.2	3614.3	3688.8	3711.5	3751.5	3587.1	3283.7
32.5°	3494.5	3498.1	3538.9	3621.6	3820.5	4037.6	4240.2	4248.4	4273.8	4043.1	3509.9
35°	3623.4	3626.2	3658.9	3749.7	3983.1	4344.6	4658.1	4668.0	4647.1	4184.7	3615.3
37.5°	3782.4	3789.6	3810.5	3886.0	4164.8	4601.7	4831.5	4824.3	4639.0	4297.4	3801.5
40°	4014.0	4014.0	3989.5	4091.3	4356.5	4748.9	4892.4	4879.7	4830.6	4623.5	4084.8
42.5°	4218.4	4214.7	4272.9	4341.9	4596.3	4976.0	5147.6	5168.5	5249.4	5033.2	4407.4
45°	4484.6	4500.9	4533.6	4658.9	5004.1	5363.8	5585.5	5605.4	5719.9	5515.5	4784.3
47.5°	4753.4	4758.8	4861.5	5028.7	5509.2	5889.7	6071.5	6104.1	6208.6	6079.6	5190.4
50°	4944.2	4995.9	5160.4	5423.8	6029.6	6531.1	6672.7	6711.8	6896.2	6693.6	5663.6
52.5°	5145.8	5196.7	5397.5	5798.9	6627.3	7186.9	7361.3	7387.6	7579.3	7314.9	6147.7
55°	5318.4	5365.7	5593.6	6131.4	7103.3	7856.3	8172.5	8141.6	8233.3	7793.7	6521.1
57.5°	5346.6	5384.7	5671.7	6343.9	7461.2	8430.4	8883.7	8901.8	8795.6	8151.6	6829.0
60°	5128.6	5206.6	5536.4	6321.2	7622.0	8830.1	9414.2	9426.9	9125.3	8335.0	6951.6
62.5°	4742.5	4734.3	5133.1	5956.0	7396.7	8921.0	9726.7	9713.0	9254.3	8246.9	6832.6
64°	4209.3	4307.4	4679.8	5507.3	7033.4	8781.0	9759.3	9752.1	9192.5	8063.4	6630.1
65°	3884.1	3878.7	4246.5	5140.4	6671.9	8570.3	9701.2	9691.2	9063.5	7899.1	6472.9
67.5°	2804.1	2816.8	3180.2	3966.8	5423.8	7746.5	9322.4	9285.2	8554.8	7354.0	5875.2
70°	1698.6	1705.9	1991.1	2631.5	3893.2	6262.2	8403.2	8405.0	7776.4	6540.2	5000.5
72.5°	894.7	913.8	1028.2	1494.3	2364.4	4393.7	6817.2	6978.9	6676.4	5581.9	3950.4
75°	497.8	500.5	581.4	736.6	1206.3	2458.9	5124.0	5170.3	5285.7	4492.7	2921.3
77.5°	379.7	385.2	410.6	476.0	656.7	1140.0	3101.1	3333.6	3725.1	3167.4	1666.9
80°	308.0	313.4	335.2	374.3	436.9	540.5	1440.6	1566.0	1993.8	1406.1	650.4
82.5°	239.8	236.2	264.3	289.8	317.9	319.8	591.3	654.0	812.0	604.9	281.6
85°	178.1	178.1	200.8	195.3	205.3	187.1	260.7	287.9	325.2	257.1	130.8
87.5°	70.9	78.1	131.7	118.1	91.8	73.6	96.3	101.7	112.7	100.9	54.5
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°	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4	2186.4
2.5°	2190.1	2192.8	2186.4	2181.8	2180.0	2177.3	2174.6	2175.5	2179.2	2182.8	2181.8
5°	2200.9	2201.9	2190.9	2185.5	2181.8	2178.2	2178.2	2181.0	2188.3	2193.7	2193.7
7.5°	2228.2	2228.2	2212.8	2202.7	2197.3	2190.9	2189.1	2190.1	2195.5	2202.7	2203.7
10°	2270.9	2267.3	2247.3	2231.8	2221.8	2206.4	2192.8	2185.5	2188.3	2192.8	2192.8
12.5°	2322.7	2312.7	2287.2	2266.3	2241.8	2212.8	2184.6	2170.1	2169.1	2173.7	2171.9
15°	2378.0	2367.2	2331.8	2293.6	2250.9	2208.2	2174.6	2153.7	2137.4	2132.8	2142.8
17.5°	2442.6	2419.9	2370.8	2318.1	2254.5	2199.1	2146.4	2103.8	2074.7	2066.5	2069.2
20°	2520.7	2490.7	2424.4	2341.7	2251.8	2166.4	2084.7	2027.4	1980.2	1965.6	1967.5
22.5°	2628.8	2577.0	2479.8	2353.5	2229.1	2104.6	1991.1	1916.6	1859.4	1836.7	1850.3
25°	2751.4	2695.1	2532.5	2350.8	2170.1	2005.7	1880.3	1783.1	1731.3	1697.7	1705.0
27.5°	2920.4	2820.4	2588.8	2326.3	2085.6	1884.8	1739.5	1647.7	1600.5	1583.2	1591.4
30°	3136.5	2983.0	2649.7	2260.0	1952.0	1732.2	1597.8	1537.8	1509.7	1487.9	1495.1
32.5°	3292.7	3097.5	2663.3	2148.2	1807.6	1593.2	1501.5	1457.0	1426.1	1405.3	1409.8
35°	3404.5	3194.6	2657.0	2011.1	1656.8	1478.8	1425.2	1388.9	1338.9	1293.5	1285.3
37.5°	3554.4	3316.4	2610.6	1861.2	1507.9	1401.6	1363.4	1296.3	1224.5	1163.6	1160.9
40°	3784.2	3459.0	2511.6	1685.0	1380.7	1344.3	1298.1	1210.8	1133.6	1084.6	1080.9
42.5°	4021.3	3590.7	2377.2	1499.7	1276.2	1284.4	1228.1	1141.8	1094.6	1062.8	1059.2
45°	4311.0	3733.3	2231.8	1338.9	1199.0	1228.1	1167.2	1117.3	1089.2	1068.2	1062.8
47.5°	4624.4	3879.6	2068.3	1194.5	1133.6	1176.3	1141.8	1119.1	1103.6	1089.2	1082.7
50°	4962.3	4043.1	1914.8	1078.2	1074.6	1122.7	1139.1	1130.9	1121.8	1117.3	1111.9
52.5°	5332.9	4210.2	1785.8	996.4	1022.8	1084.6	1140.0	1146.3	1146.3	1143.6	1140.0
55°	5583.7	4326.5	1655.0	930.1	970.1	1053.7	1138.2	1162.7	1171.8	1168.2	1164.5
57.5°	5768.9	4390.0	1490.6	872.9	925.6	1023.7	1128.1	1164.5	1173.6	1178.1	1176.3
60°	5807.1	4331.0	1275.4	813.0	877.4	980.1	1091.8	1137.2	1149.1	1177.2	1180.0
62.5°	5635.4	4149.4	1061.0	754.0	818.4	913.8	1042.8	1106.4	1130.0	1173.6	1178.1
64°	5424.7	3945.9	941.9	716.7	780.3	876.6	1018.3	1098.2	1129.1	1187.2	1190.9
65°	5270.3	3797.8	867.5	693.1	755.8	852.1	1004.7	1100.9	1137.2	1208.1	1213.6
67.5°	4701.6	3288.2	717.6	637.7	697.7	810.2	1007.3	1123.6	1135.4	1216.3	1215.4
70°	3890.5	2617.9	601.3	586.8	641.3	776.7	996.4	1087.3	1088.2	1141.8	1129.1
72.5°	2913.1	1934.8	521.4	534.1	578.6	696.7	941.1	1038.3	1022.8	1030.0	1017.4
75°	2001.1	1279.9	448.7	477.8	513.3	615.8	862.9	942.9	918.4	909.3	900.2
77.5°	1068.2	707.6	373.3	422.4	446.0	532.3	753.0	830.2	804.8	769.4	757.6
80°	432.4	333.4	300.7	349.7	363.3	428.8	626.8	674.9	655.8	594.1	574.1
82.5°	217.1	199.8	236.2	275.2	276.2	306.2	466.0	511.4	468.7	393.3	376.1
85°	113.5	117.2	162.6	193.5	170.8	165.3	279.8	309.8	284.3	247.0	222.5
87.5°	40.9	47.2	85.3	84.5	60.0	31.8	61.8	30.0	16.4	10.0	12.7
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)