

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: P647350

Luminaire Tested: **GALN-SA3D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18185.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

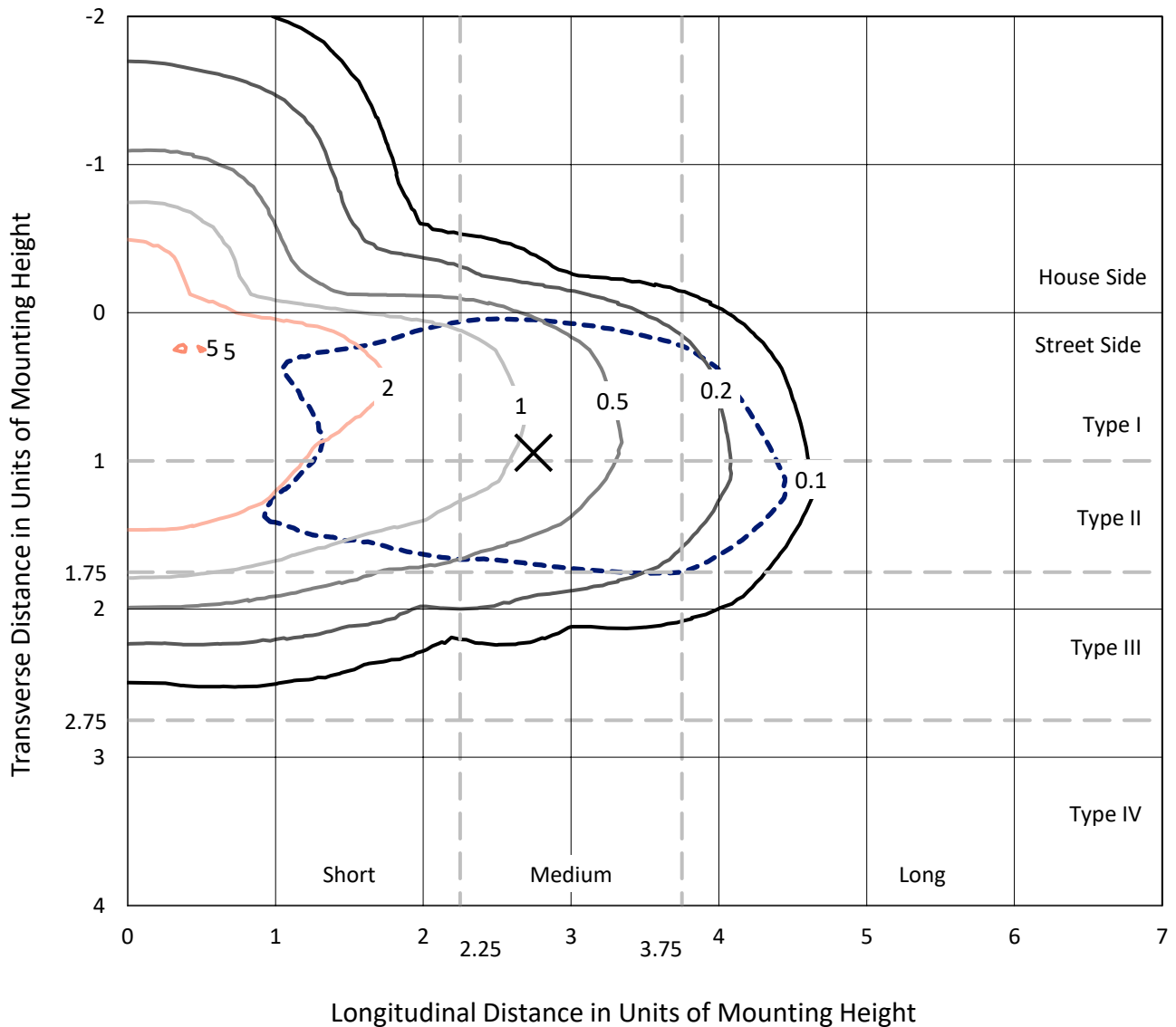
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

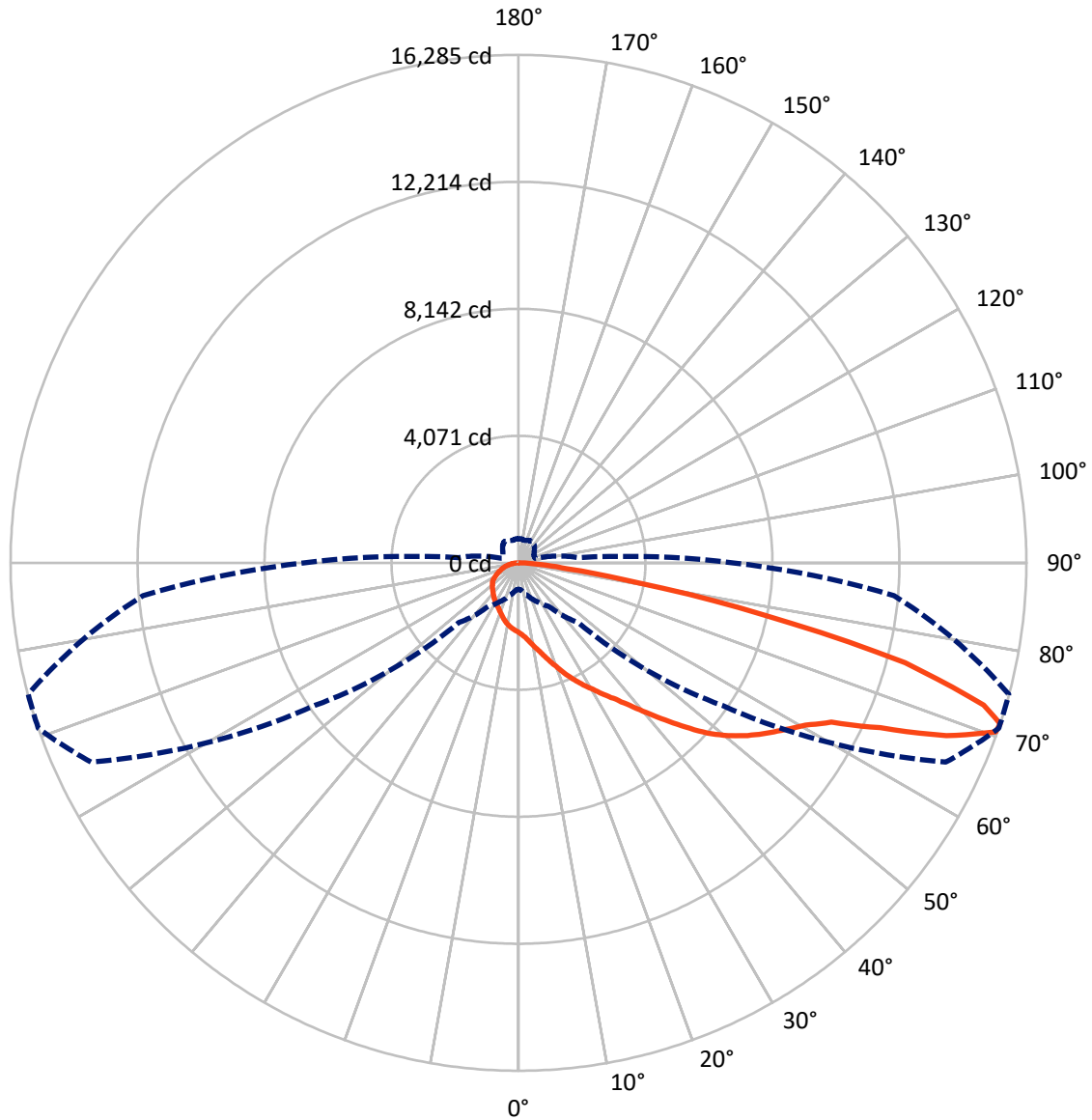
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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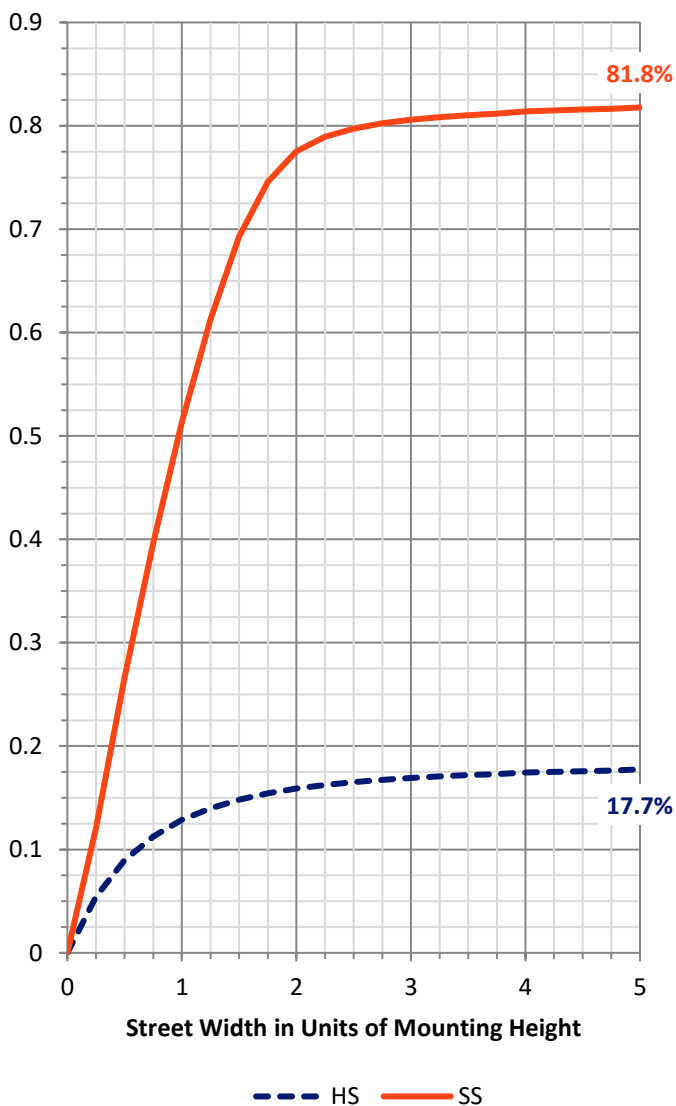
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3270.6	0.0	3270.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	14914.6	0.0	14914.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	18185.2	0.0	18185.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.2
10°-20°	728.1	4.0
20°-30°	1272.4	7.0
30°-40°	1892.5	10.4
40°-50°	2788.3	15.3
50°-60°	3903.7	21.5
60°-70°	4366.1	24.0
70°-80°	2667.0	14.7
80°-90°	343.1	1.9
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°	18185.2	100.0
0°-180°	18185.2	100.0

Coefficient of Utilization

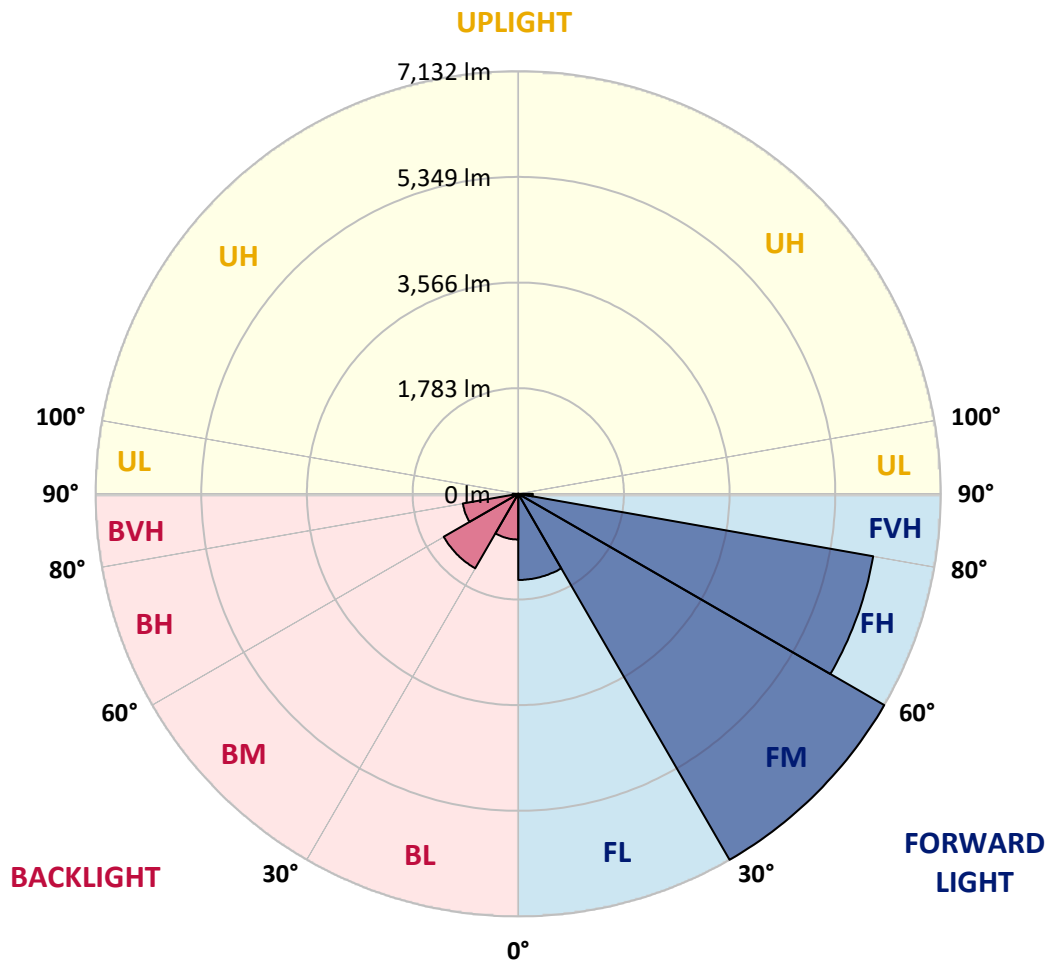


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.0	8.0			
FM (30°-60°)	7131.9	39.2			
FH (60°-80°)	6082.9	33.4			G3/7500
FVH (80°-90°)	246.9	1.4			G3/500
BL (0°-30°)	771.5	4.2	B2/1000		
BM (30°-60°)	1452.6	8.0	B2/2500		
BH (60°-80°)	950.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	96.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9
2.5°	2477.7	2465.7	2466.8	2449.8	2427.8	2403.8	2369.8	2339.8	2315.8	2301.9	2260.8
5°	2745.6	2733.6	2718.7	2681.6	2665.6	2606.7	2531.8	2463.8	2411.8	2382.8	2300.8
7.5°	2962.5	2959.5	2955.5	2934.5	2893.5	2811.6	2747.6	2629.7	2552.7	2497.8	2357.8
10°	3096.5	3101.5	3104.4	3108.4	3091.4	3048.5	2960.5	2811.6	2713.6	2643.6	2431.8
12.5°	3164.4	3169.4	3186.4	3223.4	3246.4	3241.4	3169.4	3023.5	2888.6	2796.6	2510.8
15°	3206.4	3214.4	3244.4	3293.3	3370.3	3419.3	3384.3	3249.4	3101.5	2992.5	2604.6
17.5°	3252.3	3261.4	3294.3	3364.3	3465.2	3571.2	3609.2	3493.2	3332.3	3202.4	2709.6
20°	3278.3	3290.3	3337.3	3429.3	3547.2	3701.2	3827.1	3766.1	3590.2	3446.3	2830.5
22.5°	3320.3	3330.3	3370.3	3468.2	3609.2	3802.1	4045.0	4032.0	3877.0	3691.1	2963.5
25°	3434.2	3450.3	3470.3	3529.2	3665.1	3905.1	4225.9	4315.8	4154.9	3947.0	3085.4
27.5°	3649.2	3662.2	3661.2	3669.1	3746.1	3994.0	4382.8	4596.7	4430.8	4205.9	3203.4
30°	3894.0	3899.0	3903.0	3885.0	3902.0	4084.9	4526.7	4874.6	4708.6	4471.7	3306.3
32.5°	4191.9	4201.9	4167.9	4121.9	4107.9	4219.9	4645.6	5152.4	5037.4	4741.6	3408.2
35°	4543.7	4569.7	4500.8	4419.8	4362.8	4413.8	4805.6	5436.2	5374.3	5086.4	3543.2
37.5°	4945.5	4977.5	4913.5	4754.6	4673.6	4687.7	5014.5	5787.1	5800.1	5479.2	3744.1
40°	5274.4	5316.3	5318.3	5093.4	4970.5	4986.5	5279.3	6164.9	6313.8	5965.0	3981.0
42.5°	5491.3	5532.2	5575.2	5443.3	5314.3	5405.3	5588.2	6574.7	6891.5	6554.6	4311.8
45°	5729.1	5766.1	5790.1	5730.1	5658.1	5894.0	5961.0	7010.4	7507.2	7213.4	4673.6
47.5°	6005.0	6045.9	6069.0	6012.0	5984.9	6322.8	6362.8	7417.3	8164.9	7853.0	5073.4
50°	6372.8	6403.8	6391.8	6355.8	6349.8	6651.7	6748.6	7798.1	8707.6	8541.7	5488.2
52.5°	6830.6	6867.5	6880.5	6829.6	6806.5	6886.5	7059.4	8144.8	9201.3	9133.4	5931.0
55°	7107.4	7166.4	7364.3	7444.2	7499.2	7190.4	7394.3	8527.7	9644.1	9757.0	6406.7
57.5°	6752.6	6828.5	7271.3	7671.1	8187.8	7950.0	7869.0	8927.5	10086.9	10361.8	6976.5
60°	5887.0	5904.0	6474.7	7211.4	8250.9	8926.5	8859.5	9563.2	10566.7	10971.5	7727.1
62.5°	4084.0	4119.9	4794.5	5970.0	7473.2	9278.3	10544.7	10660.6	11254.3	11884.0	8827.5
65°	2106.0	2059.0	2673.6	3752.1	5634.2	8442.7	11910.0	12678.6	12745.5	13311.2	10376.8
67.5°	1296.3	1317.3	1605.2	2190.9	3331.4	6135.9	11767.1	15144.3	14791.5	15063.4	11815.0
70°	973.5	999.5	1197.4	1499.2	2030.9	3508.2	9463.2	15742.1	16234.8	16164.8	12252.8
71°	846.6	873.6	1079.4	1364.3	1706.2	2707.6	7973.0	15116.4	16284.8	16272.8	12087.9
72.5°	721.6	738.6	899.5	1155.4	1438.3	1898.1	5990.0	13557.2	15590.2	15988.9	11499.2
75°	566.7	579.7	651.7	881.6	1132.5	1165.4	3214.4	10163.9	12804.6	13564.1	9573.2
77.5°	461.7	470.7	507.8	654.7	873.6	825.6	1686.1	6615.6	8021.9	8786.6	5639.2
80°	366.8	376.8	398.8	443.8	654.7	588.7	804.6	3352.3	3875.1	3867.1	2250.9
82.5°	284.9	287.8	313.8	325.8	447.8	417.8	435.8	1419.3	1572.2	1624.2	812.6
85°	179.9	188.9	277.9	249.9	267.9	244.8	214.9	563.7	694.7	684.7	324.9
87.5°	55.0	57.9	94.0	105.9	118.9	107.0	78.9	165.9	202.9	219.9	81.0
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°	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9	2231.9
2.5°	2244.9	2233.9	2194.9	2162.9	2132.9	2099.9	2072.0	2064.0	2056.9	2054.0	2052.9
5°	2265.8	2232.9	2155.9	2093.0	2043.0	1997.0	1968.0	1955.0	1942.0	1942.0	1946.0
7.5°	2295.8	2235.9	2116.9	2023.0	1960.0	1917.0	1896.0	1894.1	1897.1	1900.0	1901.0
10°	2328.8	2233.9	2060.0	1943.0	1887.0	1867.1	1868.1	1885.1	1901.0	1913.0	1915.1
12.5°	2360.8	2221.8	1993.0	1868.1	1832.1	1836.1	1864.1	1902.1	1933.0	1950.0	1951.0
15°	2396.8	2202.9	1912.0	1797.1	1785.1	1816.1	1868.1	1926.0	1973.0	2001.0	2004.0
17.5°	2426.8	2170.9	1827.1	1728.2	1743.1	1800.1	1872.1	1947.0	2004.0	2038.9	2045.0
20°	2460.7	2129.9	1739.1	1662.2	1705.1	1782.1	1864.1	1945.1	2004.0	2038.0	2046.0
22.5°	2487.7	2072.0	1655.2	1608.2	1671.2	1760.1	1837.1	1902.1	1950.0	1968.0	1980.0
25°	2498.7	1999.0	1576.2	1564.2	1644.1	1724.2	1776.1	1813.1	1828.1	1826.1	1831.0
27.5°	2492.8	1915.1	1508.2	1529.2	1610.2	1668.2	1694.2	1691.1	1664.2	1639.1	1651.2
30°	2467.8	1815.1	1451.3	1493.3	1566.2	1598.2	1594.2	1555.2	1504.2	1457.2	1460.3
32.5°	2422.8	1707.2	1398.3	1452.2	1504.2	1518.2	1491.2	1440.3	1367.3	1306.4	1297.4
35°	2384.8	1604.2	1351.3	1405.3	1442.3	1435.2	1409.3	1343.3	1277.4	1223.4	1214.4
37.5°	2378.8	1516.2	1306.4	1352.3	1373.3	1363.3	1331.3	1275.4	1251.4	1210.4	1205.4
40°	2410.8	1454.3	1260.4	1296.3	1306.4	1298.4	1263.4	1231.3	1253.3	1243.4	1243.4
42.5°	2497.8	1421.3	1219.4	1240.4	1248.3	1254.4	1229.4	1202.4	1229.4	1183.4	1168.4
45°	2635.7	1422.3	1182.4	1185.4	1209.4	1230.4	1213.4	1173.4	1159.4	1067.5	1049.5
47.5°	2838.5	1456.3	1152.4	1133.4	1176.4	1211.4	1187.4	1129.4	1067.5	1006.5	995.5
50°	3075.5	1517.2	1125.4	1079.4	1132.5	1187.4	1169.4	1101.4	1037.5	1000.5	993.5
52.5°	3338.3	1594.2	1092.4	1019.5	1078.4	1176.4	1173.4	1097.5	1009.5	984.5	978.5
55°	3663.1	1670.1	1051.5	949.5	1030.5	1167.4	1162.4	1064.5	1003.5	985.5	983.5
57.5°	4041.0	1780.1	992.5	878.5	975.5	1130.4	1119.5	1044.4	983.5	970.5	969.5
60°	4649.6	1951.0	908.5	813.6	919.6	1065.4	1079.4	1010.5	951.5	948.5	947.5
62.5°	5450.2	2190.9	821.6	746.6	854.6	981.5	1021.5	964.5	917.5	932.6	934.5
65°	6555.7	2392.8	731.6	689.7	782.6	900.5	966.5	921.5	879.5	908.5	908.5
67.5°	7276.3	2396.8	649.7	630.7	709.6	832.6	908.5	870.5	830.6	879.5	881.6
70°	7126.4	2099.9	581.7	568.7	638.7	759.6	844.5	814.6	768.6	812.6	796.6
71°	6884.5	1935.0	554.8	544.7	610.7	724.7	814.6	789.6	743.6	772.6	763.6
72.5°	6498.7	1680.2	510.8	512.7	568.7	680.7	772.6	746.6	700.6	716.6	713.6
75°	5493.2	1467.3	436.8	445.8	488.7	605.7	688.6	668.7	621.7	621.7	618.6
77.5°	3434.2	1025.5	362.8	367.8	414.8	518.7	591.7	574.7	529.7	514.7	510.8
80°	1281.4	529.7	283.8	289.9	318.8	408.8	489.8	473.8	427.8	410.8	394.8
82.5°	484.8	265.8	208.9	203.9	234.9	311.9	383.8	364.8	328.9	287.8	275.9
85°	182.9	131.9	127.9	123.9	138.0	184.9	237.9	233.9	195.9	166.9	163.9
87.5°	48.0	43.0	50.0	37.0	39.0	35.0	36.0	15.0	7.0	3.0	2.0
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)