

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: P458763

Luminaire Tested: **GALN-SA3A-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458763
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-SA3A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12790 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

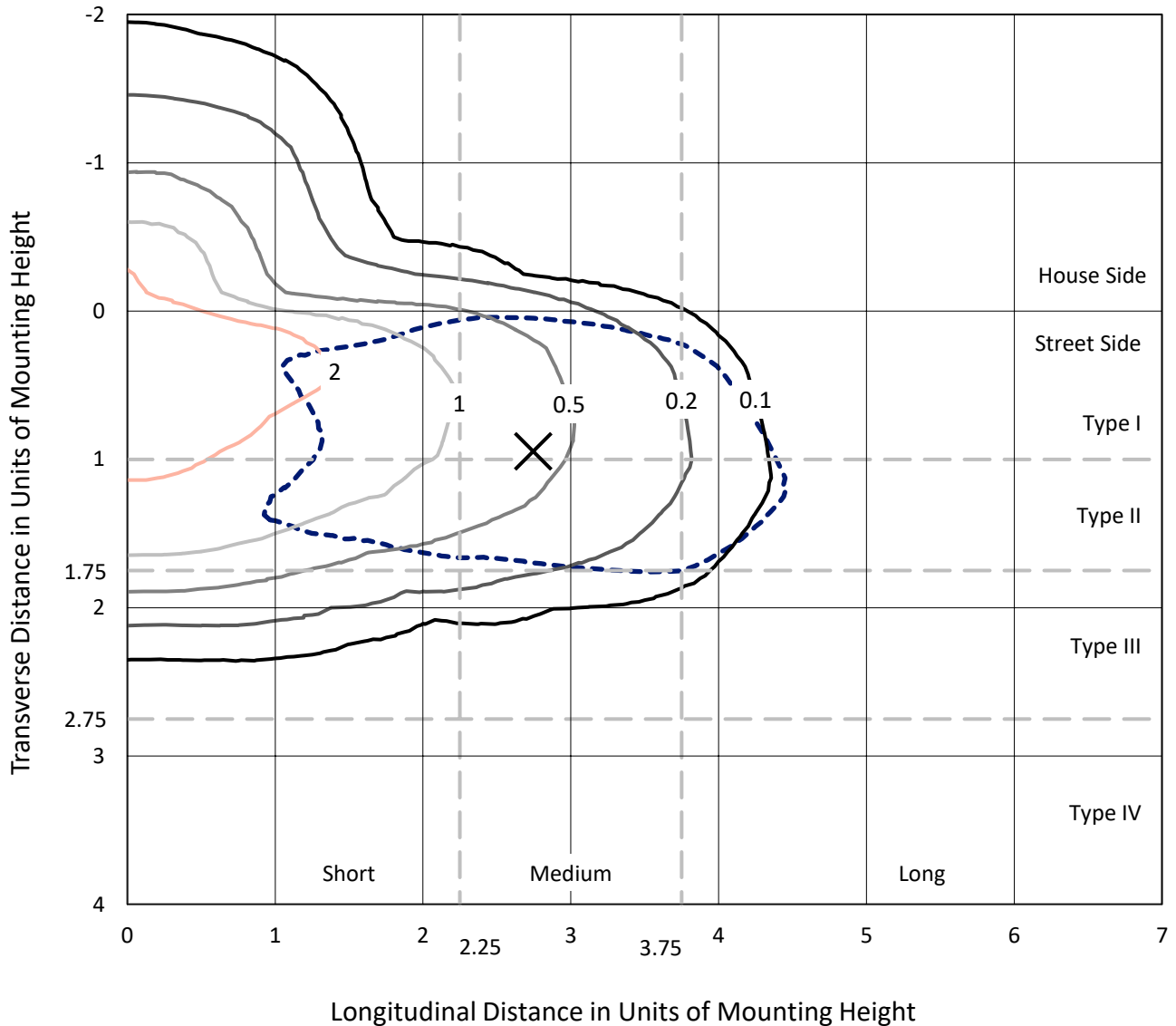
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

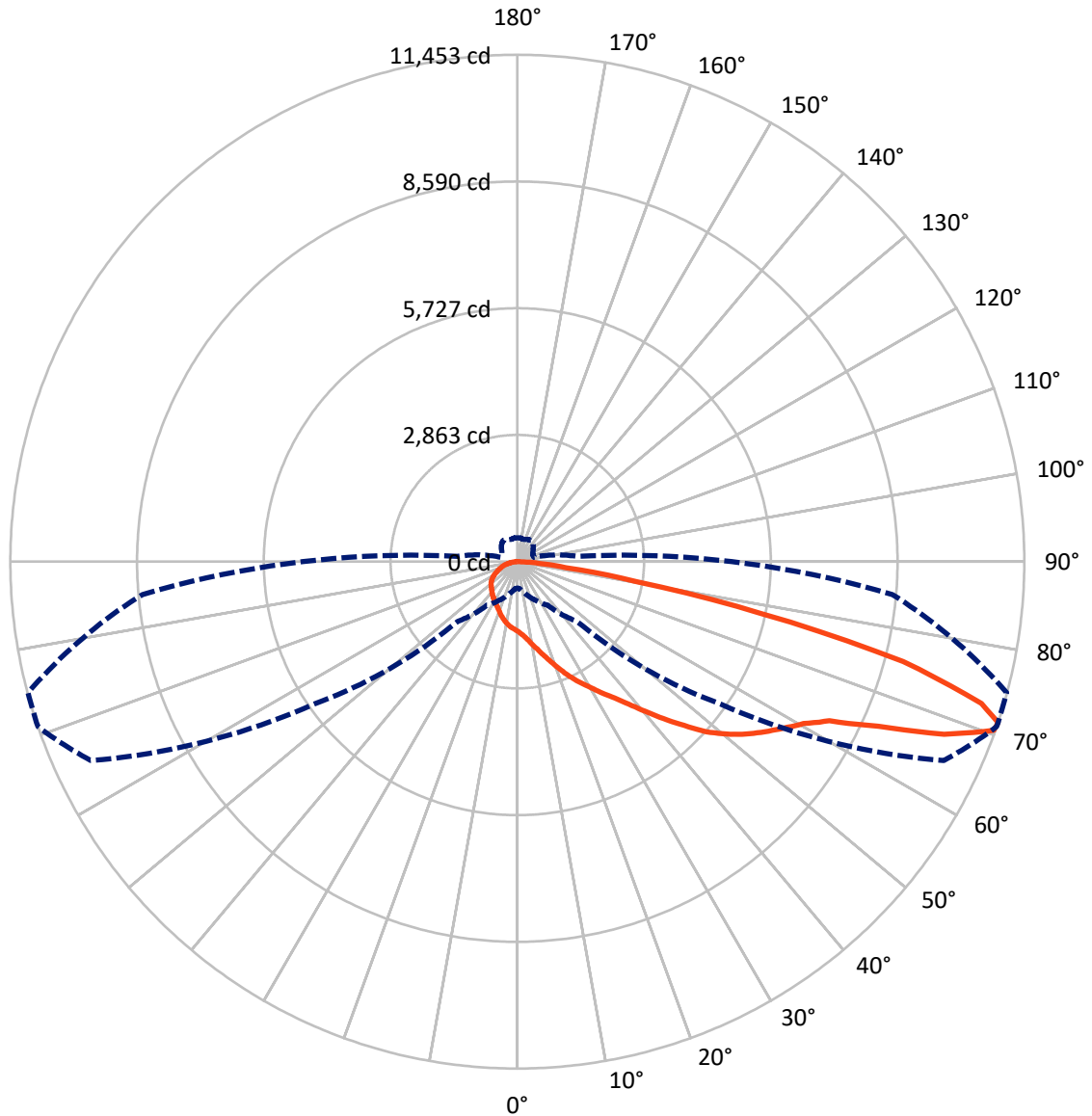
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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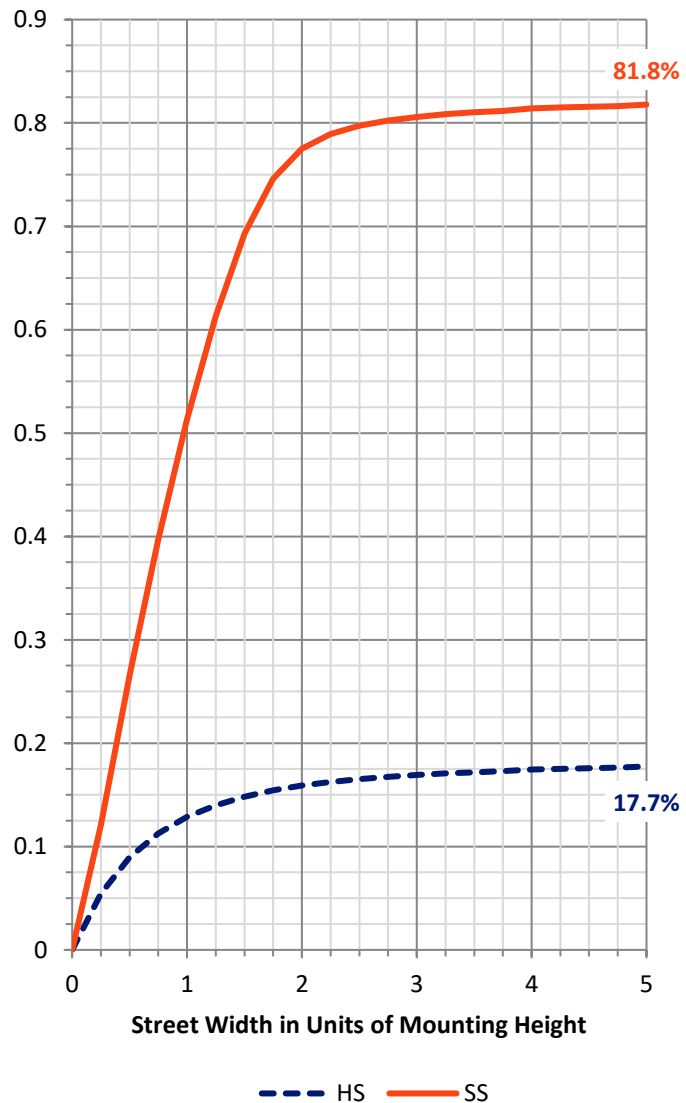
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.2	0.0	2300.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10489.7	0.0	10489.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	12790.0	0.0	12790.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.2
10°-20°	512.1	4.0
20°-30°	894.9	7.0
30°-40°	1331.0	10.4
40°-50°	1961.1	15.3
50°-60°	2745.5	21.5
60°-70°	3070.8	24.0
70°-80°	1875.7	14.7
80°-90°	241.3	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°	12790.0	100.0
0°-180°	12790.0	100.0



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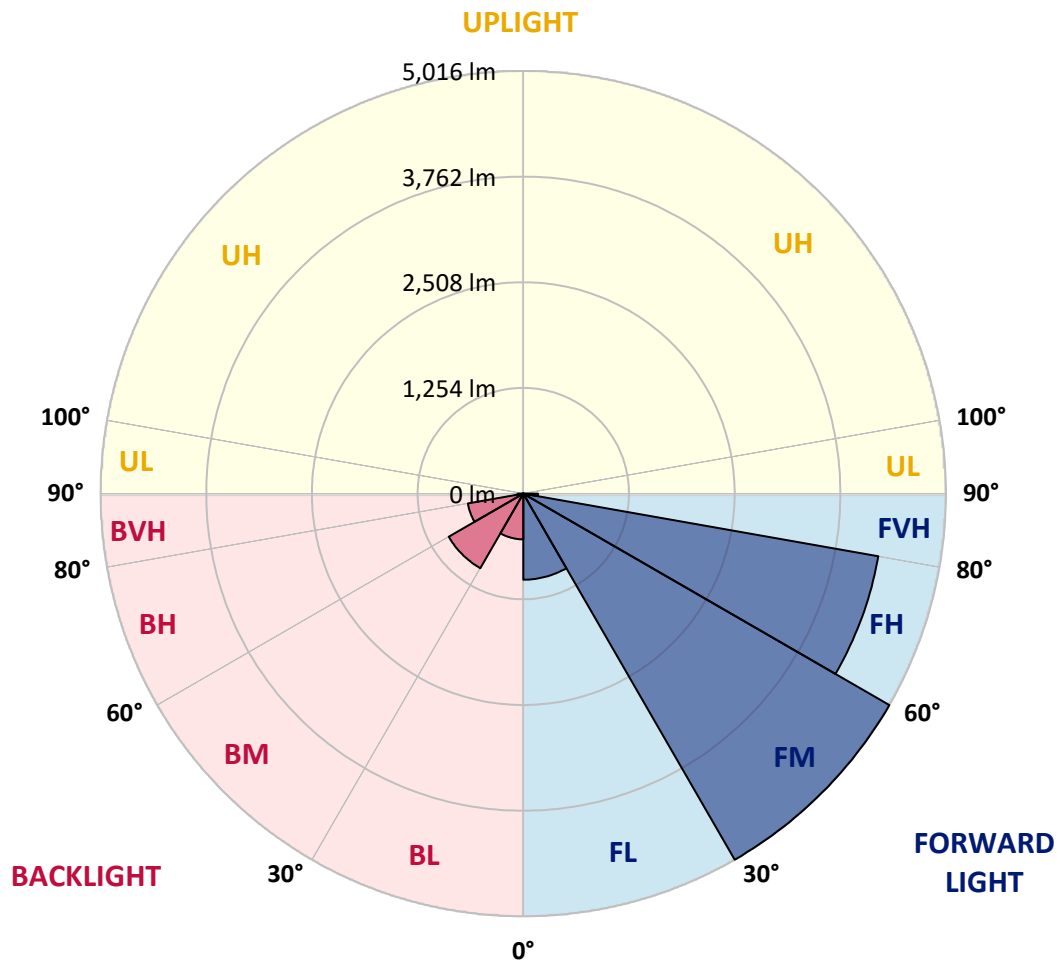
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1021.9	8.0			
FM	(30°-60°)	5016.0	39.2			
FH	(60°-80°)	4278.2	33.4			G2/5000
FVH	(80°-90°)	173.6	1.4			G2/225
BL	(0°-30°)	542.6	4.2	B2/1000		
BM	(30°-60°)	1021.6	8.0	B2/2500		
BH	(60°-80°)	668.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	67.7	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1742.6	1734.2	1734.9	1723.0	1707.5	1690.6	1666.7	1645.6	1628.8	1618.9	1590.1
5°	1931.0	1922.6	1912.1	1886.1	1874.8	1833.3	1780.6	1732.8	1696.3	1675.9	1618.2
7.5°	2083.6	2081.5	2078.7	2063.9	2035.1	1977.4	1932.5	1849.5	1795.4	1756.7	1658.3
10°	2177.8	2181.3	2183.4	2186.2	2174.3	2144.0	2082.2	1977.4	1908.5	1859.3	1710.3
12.5°	2225.6	2229.1	2241.1	2267.1	2283.2	2279.7	2229.1	2126.5	2031.6	1966.9	1765.8
15°	2255.1	2260.7	2281.8	2316.3	2370.4	2404.8	2380.2	2285.3	2181.3	2104.7	1831.9
17.5°	2287.4	2293.8	2317.0	2366.2	2437.2	2511.7	2538.4	2456.9	2343.7	2252.3	1905.7
20°	2305.7	2314.2	2347.2	2411.9	2494.8	2603.1	2691.7	2648.8	2525.0	2423.8	1990.8
22.5°	2335.2	2342.3	2370.4	2439.3	2538.4	2674.1	2844.9	2835.8	2726.8	2596.0	2084.3
25°	2415.4	2426.6	2440.7	2482.2	2577.8	2746.5	2972.1	3035.4	2922.2	2776.0	2170.1
27.5°	2566.5	2575.7	2575.0	2580.6	2634.7	2809.0	3082.5	3232.9	3116.2	2958.1	2253.0
30°	2738.8	2742.3	2745.1	2732.4	2744.4	2873.0	3183.7	3428.4	3311.7	3145.1	2325.4
32.5°	2948.2	2955.3	2931.4	2899.0	2889.2	2967.9	3267.4	3623.8	3542.9	3334.9	2397.1
35°	3195.7	3214.0	3165.5	3108.5	3068.4	3104.3	3379.9	3823.4	3779.8	3577.4	2492.0
37.5°	3478.3	3500.8	3455.8	3344.0	3287.1	3296.9	3526.8	4070.2	4079.3	3853.7	2633.3
40°	3709.5	3739.1	3740.5	3582.3	3495.8	3507.1	3713.1	4335.9	4440.6	4195.3	2799.9
42.5°	3862.1	3890.9	3921.1	3828.3	3737.7	3801.6	3930.3	4624.1	4846.9	4610.0	3032.6
45°	4029.4	4055.4	4072.3	4030.1	3979.5	4145.4	4192.5	4930.6	5280.0	5073.3	3287.1
47.5°	4223.4	4252.2	4268.4	4228.3	4209.4	4447.0	4475.1	5216.7	5742.5	5523.2	3568.2
50°	4482.1	4503.9	4495.5	4470.2	4465.9	4678.2	4746.4	5484.5	6124.2	6007.5	3860.0
52.5°	4804.1	4830.1	4839.2	4803.4	4787.2	4843.4	4965.0	5728.5	6471.5	6423.7	4171.4
55°	4998.8	5040.3	5179.4	5235.7	5274.3	5057.1	5200.5	5997.7	6782.9	6862.3	4506.0
57.5°	4749.2	4802.7	5114.1	5395.3	5758.7	5591.4	5534.4	6278.9	7094.3	7287.6	4906.7
60°	4140.5	4152.4	4553.8	5071.9	5803.0	6278.2	6231.1	6726.0	7431.7	7716.4	5434.6
62.5°	2872.3	2897.6	3372.1	4198.8	5256.1	6525.6	7416.3	7497.8	7915.4	8358.3	6208.6
65°	1481.1	1448.1	1880.4	2638.9	3962.6	5937.9	8376.5	8917.1	8964.2	9362.1	7298.2
67.5°	911.7	926.5	1129.0	1540.9	2343.0	4315.5	8276.0	10651.3	10403.2	10594.4	8309.7
70°	684.7	703.0	842.2	1054.4	1428.4	2467.4	6655.7	11071.7	11418.3	11369.0	8617.6
71°	595.4	614.4	759.2	959.5	1200.0	1904.3	5607.5	10631.6	11453.4	11445.0	8501.7
72.5°	507.5	519.5	632.7	812.6	1011.6	1334.9	4212.9	9535.0	10964.8	11245.3	8087.6
75°	398.6	407.7	458.3	620.0	796.5	819.7	2260.7	7148.4	9005.7	9539.9	6733.0
77.5°	324.8	331.1	357.1	460.4	614.4	580.6	1185.9	4652.9	5642.0	6179.8	3966.1
80°	258.0	265.0	280.5	312.1	460.4	414.0	565.9	2357.7	2725.4	2719.8	1583.1
82.5°	200.3	202.5	220.7	229.2	314.9	293.8	306.5	998.2	1105.8	1142.3	571.5
85°	126.5	132.9	195.4	175.7	188.4	172.2	151.1	396.5	488.6	481.5	228.5
87.5°	38.7	40.8	66.1	74.5	83.7	75.2	55.5	116.7	142.7	154.7	56.9
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°	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7	1569.7
2.5°	1578.9	1571.1	1543.7	1521.2	1500.1	1476.9	1457.2	1451.6	1446.7	1444.6	1443.9
5°	1593.6	1570.4	1516.3	1472.0	1436.9	1404.5	1384.1	1375.0	1365.9	1365.9	1368.7
7.5°	1614.7	1572.5	1488.9	1422.8	1378.5	1348.3	1333.5	1332.1	1334.2	1336.3	1337.0
10°	1637.9	1571.1	1448.8	1366.6	1327.2	1313.1	1313.8	1325.8	1337.0	1345.5	1346.9
12.5°	1660.4	1562.7	1401.7	1313.8	1288.5	1291.3	1311.0	1337.7	1359.5	1371.5	1372.2
15°	1685.7	1549.3	1344.8	1263.9	1255.5	1277.3	1313.8	1354.6	1387.7	1407.3	1409.4
17.5°	1706.8	1526.8	1285.0	1215.4	1226.0	1266.0	1316.7	1369.4	1409.4	1434.0	1438.3
20°	1730.7	1498.0	1223.2	1169.0	1199.3	1253.4	1311.0	1368.0	1409.4	1433.3	1439.0
22.5°	1749.7	1457.2	1164.1	1131.1	1175.4	1237.9	1292.0	1337.7	1371.5	1384.1	1392.6
25°	1757.4	1405.9	1108.6	1100.1	1156.4	1212.6	1249.2	1275.2	1285.7	1284.3	1287.8
27.5°	1753.2	1346.9	1060.8	1075.5	1132.5	1173.2	1191.5	1189.4	1170.4	1152.9	1161.3
30°	1735.6	1276.6	1020.7	1050.2	1101.5	1124.0	1121.2	1093.8	1058.0	1024.9	1027.0
32.5°	1704.0	1200.7	983.4	1021.4	1058.0	1067.8	1048.8	1013.0	961.7	918.8	912.4
35°	1677.3	1128.3	950.4	988.4	1014.4	1009.5	991.2	944.8	898.4	860.4	854.1
37.5°	1673.1	1066.4	918.8	951.1	965.9	958.8	936.3	897.0	880.1	851.3	847.8
40°	1695.6	1022.8	886.4	911.7	918.8	913.2	888.5	866.1	881.5	874.5	874.5
42.5°	1756.7	999.6	857.6	872.4	878.0	882.2	864.6	845.7	864.6	832.3	821.8
45°	1853.7	1000.3	831.6	833.7	850.6	865.3	853.4	825.3	815.4	750.8	738.1
47.5°	1996.4	1024.2	810.5	797.2	827.4	852.0	835.1	794.4	750.8	707.9	700.2
50°	2163.0	1067.1	791.5	759.2	796.5	835.1	822.5	774.7	729.7	703.7	698.7
52.5°	2347.9	1121.2	768.3	717.0	758.5	827.4	825.3	771.9	710.0	692.4	688.2
55°	2576.4	1174.7	739.5	667.8	724.8	821.1	817.5	748.7	705.8	693.1	691.7
57.5°	2842.1	1252.0	698.0	617.9	686.1	795.1	787.3	734.6	691.7	682.6	681.9
60°	3270.2	1372.2	639.0	572.2	646.7	749.4	759.2	710.7	669.2	667.1	666.4
62.5°	3833.3	1540.9	577.8	525.1	601.0	690.3	718.4	678.4	645.3	655.9	657.3
65°	4610.7	1682.9	514.6	485.0	550.4	633.4	679.8	648.1	618.6	639.0	639.0
67.5°	5117.6	1685.7	456.9	443.6	499.1	585.6	639.0	612.3	584.2	618.6	620.0
70°	5012.1	1476.9	409.1	400.0	449.2	534.3	594.0	572.9	540.6	571.5	560.3
71°	4842.0	1360.9	390.1	383.1	429.5	509.6	572.9	555.3	523.0	543.4	537.1
72.5°	4570.7	1181.7	359.2	360.6	400.0	478.7	543.4	525.1	492.8	504.0	501.9
75°	3863.5	1032.0	307.2	313.5	343.7	426.0	484.3	470.3	437.2	437.2	435.1
77.5°	2415.4	721.2	255.2	258.7	291.7	364.8	416.2	404.2	372.6	362.0	359.2
80°	901.2	372.6	199.6	203.9	224.2	287.5	344.5	333.2	300.9	288.9	277.7
82.5°	340.9	187.0	146.9	143.4	165.2	219.3	269.9	256.6	231.3	202.5	194.0
85°	128.6	92.8	90.0	87.2	97.0	130.0	167.3	164.5	137.8	117.4	115.3
87.5°	33.7	30.2	35.1	26.0	27.4	24.6	25.3	10.5	4.9	2.1	1.4
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)