

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: P651248

Luminaire Tested: **GALN-SA2D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7717.9 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

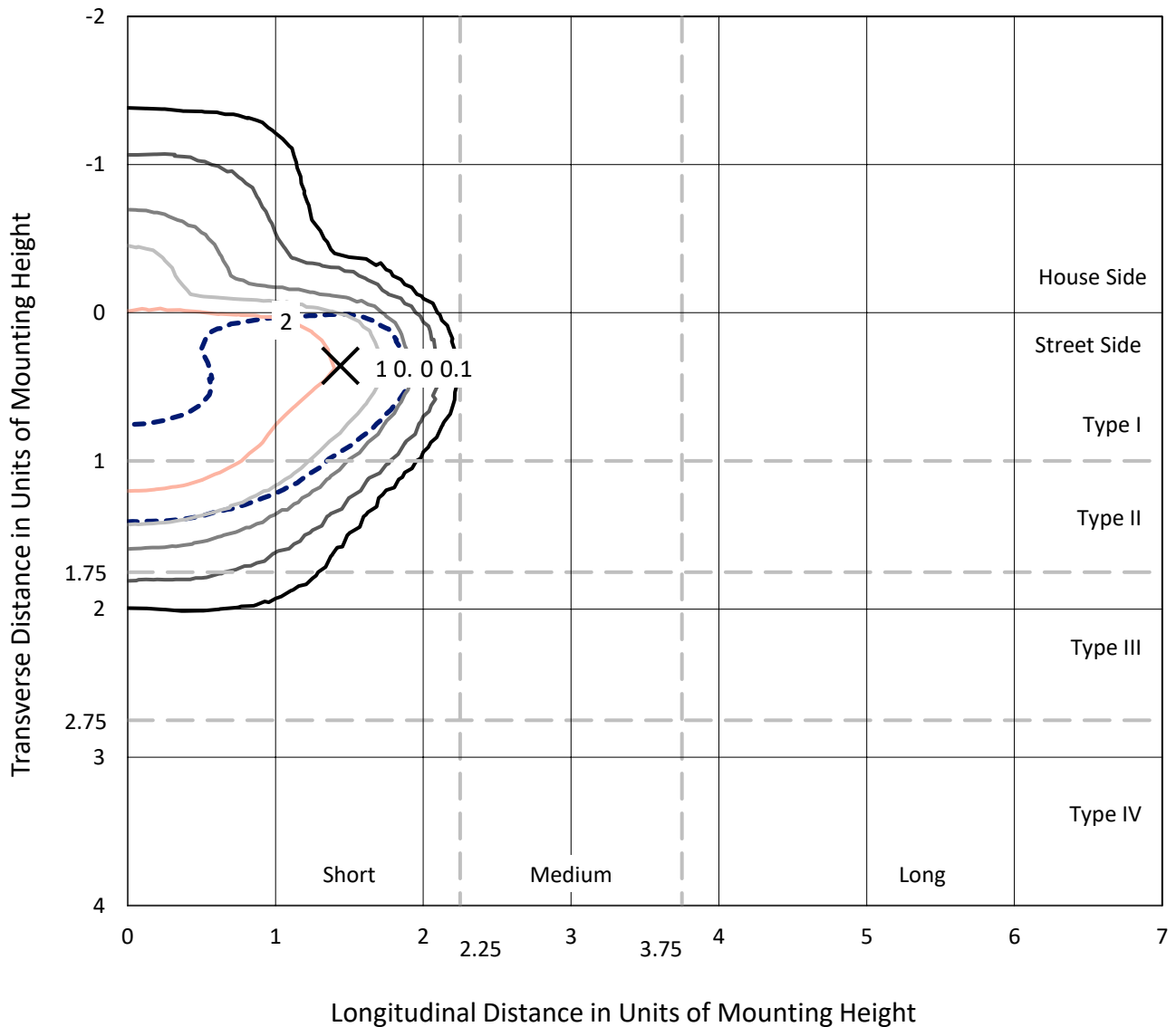
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

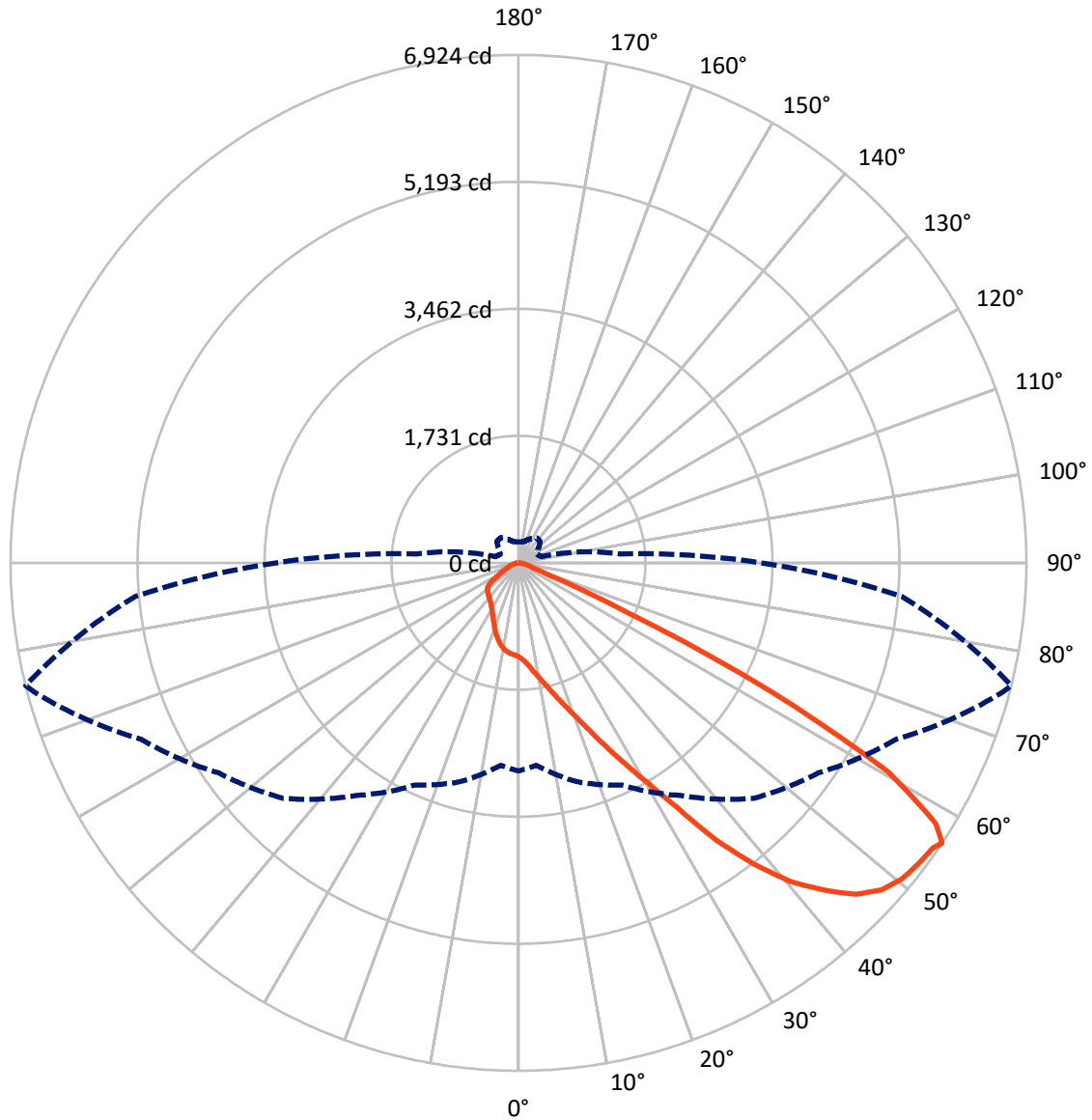
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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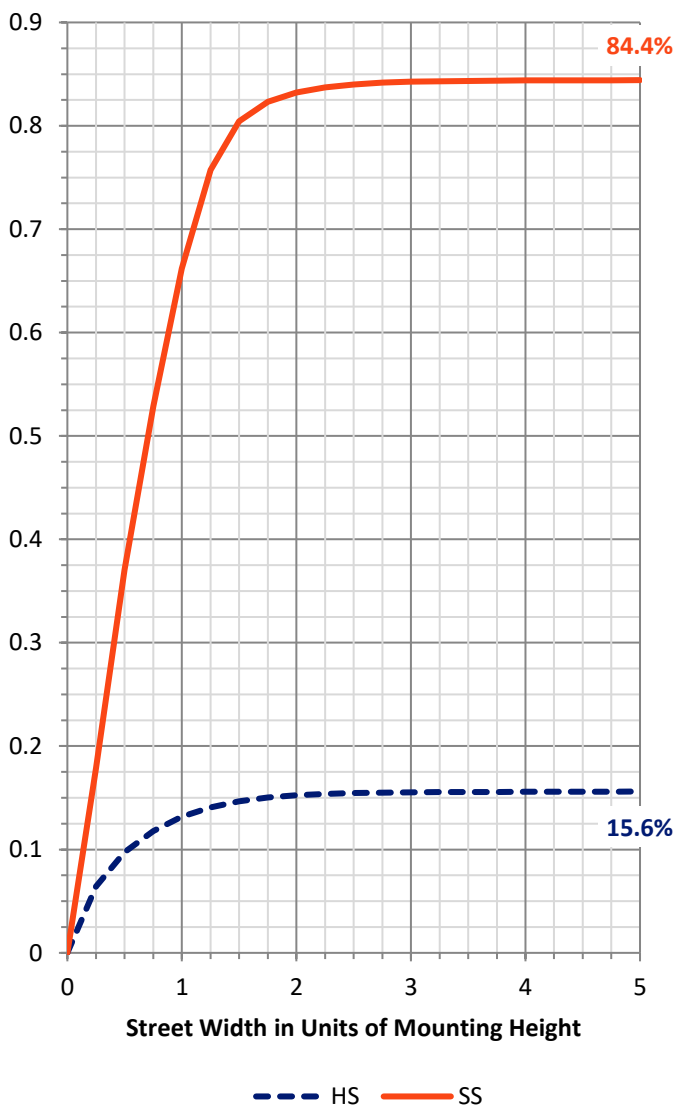
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.4	0.0	1212.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6505.4	0.0	6505.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	7717.9	0.0	7717.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.7
10°-20°	415.7	5.4
20°-30°	753.9	9.8
30°-40°	1300.1	16.8
40°-50°	2112.0	27.4
50°-60°	2226.1	28.8
60°-70°	680.2	8.8
70°-80°	87.2	1.1
80°-90°	13.3	0.2
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°	7717.9	100.0
0°-180°	7717.9	100.0

Coefficient of Utilization

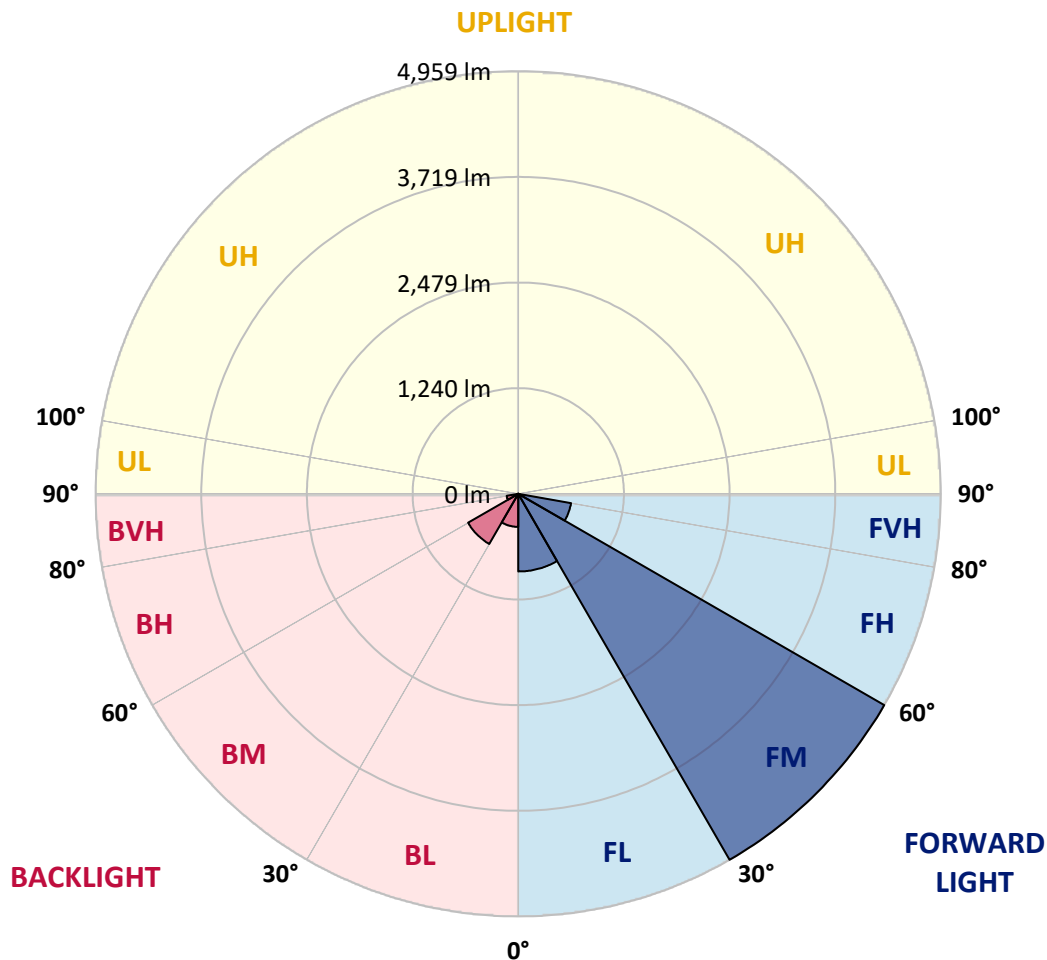


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.2	11.8			
FM (30°-60°)	4958.7	64.2			
FH (60°-80°)	629.0	8.2			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	387.9	5.0	B1/500		
BM (30°-60°)	679.5	8.8	B1/1000		
BH (60°-80°)	138.3	1.8	B1/500		G1/500
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1479.6	1445.4	1446.9	1444.0	1439.7	1424.1	1377.1	1370.0	1338.7	1330.2	1301.7
5°	1657.4	1627.5	1644.6	1619.0	1594.8	1580.6	1503.7	1468.1	1418.3	1399.8	1360.1
7.5°	1768.4	1754.2	1748.4	1749.9	1727.1	1691.5	1657.4	1579.1	1512.3	1498.1	1414.1
10°	1822.4	1813.9	1822.4	1818.2	1828.1	1832.4	1772.6	1725.6	1627.5	1603.3	1472.4
12.5°	1835.2	1852.3	1859.4	1877.9	1902.1	1943.3	1939.1	1875.0	1744.1	1728.5	1562.1
15°	1866.5	1880.7	1873.7	1903.5	1949.0	2018.7	2055.7	2045.7	1904.9	1876.4	1665.9
17.5°	1894.9	1869.4	1893.5	1953.3	1998.8	2105.5	2195.2	2236.4	2079.9	2047.2	1761.2
20°	1933.4	1926.2	1922.0	1951.9	2032.9	2175.2	2353.0	2428.5	2276.3	2242.1	1897.8
22.5°	2050.0	2051.5	2048.6	2004.5	2062.8	2223.6	2491.0	2677.4	2511.0	2482.5	2052.9
25°	2203.7	2185.2	2171.0	2135.4	2128.3	2267.7	2630.5	2981.8	2792.6	2772.8	2220.7
27.5°	2365.9	2365.9	2323.2	2290.5	2245.0	2377.3	2758.5	3277.8	3132.6	3105.6	2367.2
30°	2542.3	2552.3	2546.5	2476.8	2448.4	2496.8	2889.4	3656.2	3522.4	3488.3	2609.1
32.5°	2802.6	2781.3	2805.5	2747.1	2663.2	2705.8	3095.6	3994.8	4028.9	3980.5	2926.3
35°	3146.9	3134.1	3118.4	3023.1	2923.6	2957.7	3387.3	4411.6	4664.9	4640.6	3246.5
37.5°	3455.6	3448.5	3435.7	3370.2	3255.0	3296.3	3718.8	4845.5	5285.1	5205.5	3698.9
40°	3780.0	3818.4	3777.1	3718.8	3613.5	3704.6	4108.6	5103.0	5807.3	5710.5	4044.6
42.5°	4219.5	4189.7	4208.2	4101.5	4044.6	4144.2	4499.9	5360.5	6212.7	6097.4	4411.6
45°	4687.6	4689.1	4639.2	4605.1	4457.1	4565.3	4740.3	5502.8	6535.7	6446.0	4689.1
47.5°	4987.8	4986.4	5040.4	5094.5	4942.3	4835.6	4903.9	5638.0	6702.1	6660.8	4790.1
50°	4940.9	4955.1	5024.8	5226.8	5306.5	5162.8	5057.5	5598.1	6777.5	6773.2	4876.8
52.5°	4297.8	4344.8	4461.4	4753.1	5154.2	5332.1	5218.2	5672.1	6814.5	6821.6	5006.3
55°	3272.1	3297.7	3519.6	3873.9	4317.7	4926.7	5154.2	5730.4	6843.0	6855.7	5162.8
56°	2838.2	2769.9	3090.0	3341.8	3872.5	4538.2	4992.1	5684.9	6825.9	6924.0	5241.0
57.5°	2142.5	2096.9	2355.9	2670.3	3181.0	3883.8	4488.4	5470.0	6710.6	6709.2	5128.7
60°	1303.1	1257.6	1456.8	1641.7	1927.7	2391.5	3033.1	4356.1	5673.5	5793.0	4152.7
62.5°	775.3	803.8	1000.1	1112.5	1205.0	1253.3	1569.1	2589.2	3785.7	3871.0	2576.4
65°	516.5	526.4	674.3	859.2	900.5	717.0	638.7	1048.5	1641.7	1589.1	1062.7
67.5°	318.7	341.4	452.4	645.9	715.6	523.5	303.0	391.2	452.4	452.4	307.3
70°	193.5	204.9	301.6	439.6	490.8	337.2	220.5	220.5	217.7	213.4	183.5
72.5°	92.5	99.6	153.7	226.2	230.4	177.9	170.7	186.4	182.1	180.6	152.2
75°	39.9	42.6	54.1	71.1	81.1	75.4	103.9	133.7	138.0	133.7	109.6
77.5°	12.8	14.2	19.9	25.6	27.0	32.7	44.1	55.5	64.0	59.7	54.1
80°	1.4	2.9	5.7	12.8	19.9	25.6	32.7	37.0	41.3	41.3	38.4
82.5°	1.4	1.4	5.7	11.4	18.5	24.2	31.3	35.6	41.3	42.6	39.9
85°	0.0	1.4	4.3	9.9	15.6	15.6	14.2	14.2	9.9	9.9	9.9
87.5°	0.0	0.0	1.4	1.4	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1296.1	1293.2	1254.8	1230.6	1217.8	1192.2	1176.6	1165.1	1156.6	1146.6	1148.0
5°	1313.1	1303.1	1239.1	1195.1	1142.4	1113.9	1089.8	1069.8	1057.1	1054.2	1048.5
7.5°	1361.5	1308.8	1212.1	1132.4	1065.5	1037.1	1015.8	1003.0	1008.7	995.8	1005.8
10°	1398.5	1320.2	1179.3	1064.1	997.3	975.9	964.5	974.6	988.8	983.0	975.9
12.5°	1444.0	1331.6	1126.8	998.7	936.1	920.5	940.4	958.8	987.3	998.7	984.5
15°	1495.2	1344.4	1059.9	923.3	883.5	896.3	930.4	963.1	991.6	1005.8	1014.3
17.5°	1557.8	1340.1	994.4	863.5	833.7	870.7	911.9	941.8	984.5	1005.8	1000.1
20°	1616.1	1325.9	921.9	803.8	805.3	839.4	873.5	921.9	944.6	973.1	963.1
22.5°	1671.6	1300.3	846.5	762.5	762.5	815.2	832.3	863.5	883.5	897.7	896.3
25°	1749.9	1251.9	783.9	722.7	739.7	773.9	788.2	798.1	789.5	801.0	802.4
27.5°	1805.4	1202.1	732.7	687.1	718.5	744.0	739.7	734.1	714.2	698.5	708.5
30°	1865.1	1143.8	688.5	663.0	680.0	702.8	685.8	668.7	637.3	611.7	613.2
32.5°	1950.4	1116.8	650.2	634.5	657.2	660.1	641.6	616.0	584.7	560.5	559.1
35°	2109.8	1099.7	617.5	616.0	620.2	621.7	603.2	571.9	559.1	539.2	546.3
37.5°	2269.1	1091.2	594.7	589.0	587.5	589.0	567.7	537.7	562.0	560.5	563.4
40°	2472.5	1129.5	562.0	554.8	556.2	556.2	529.2	520.7	563.4	567.7	569.0
42.5°	2678.8	1178.0	540.6	517.8	523.5	523.5	509.3	499.4	529.2	500.7	496.5
45°	2858.1	1249.1	517.8	480.9	495.1	502.2	498.0	480.9	462.4	414.0	414.0
47.5°	2916.4	1311.7	490.8	445.3	456.7	487.9	475.2	439.6	406.9	367.0	364.2
50°	3018.9	1380.0	469.4	404.0	428.2	466.6	453.8	418.2	381.3	352.8	354.2
52.5°	3124.1	1458.2	429.7	355.7	385.5	449.5	449.5	409.7	352.8	332.9	330.1
55°	3282.0	1455.4	358.5	291.7	344.3	423.9	431.1	367.0	315.8	300.2	300.2
56°	3304.8	1389.9	322.9	273.2	325.8	416.8	418.2	355.7	301.6	284.5	284.5
57.5°	3134.1	1254.8	283.1	250.4	303.0	404.0	405.4	345.7	290.2	266.0	263.1
60°	2411.4	849.3	236.2	223.4	274.6	364.2	371.3	314.4	254.7	236.2	234.7
62.5°	1361.5	470.9	207.7	202.0	236.2	310.2	331.4	274.6	216.2	206.3	209.2
65°	621.7	258.9	175.0	163.6	190.7	239.0	267.4	226.2	177.9	166.4	166.4
67.5°	227.7	176.4	149.4	129.4	133.7	155.1	173.6	146.5	118.1	101.0	105.3
70°	162.1	147.9	130.9	112.4	103.9	101.0	99.6	82.5	58.4	45.5	48.4
72.5°	130.9	122.4	109.6	95.3	81.1	68.3	58.4	42.6	27.0	18.5	17.1
75°	93.9	89.7	79.6	68.3	56.9	48.4	39.9	27.0	14.2	7.1	7.1
77.5°	48.4	48.4	46.9	42.6	35.6	28.4	22.8	15.6	8.5	2.9	2.9
80°	37.0	39.9	41.3	37.0	32.7	25.6	18.5	11.4	5.7	1.4	1.4
82.5°	35.6	41.3	44.1	38.4	32.7	24.2	18.5	11.4	5.7	1.4	1.4
85°	8.5	8.5	12.8	14.2	18.5	19.9	15.6	9.9	4.3	1.4	1.4
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	0.0
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)