

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: P647295

Luminaire Tested: **GALN-SA2D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647295
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-SA2D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 12250 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

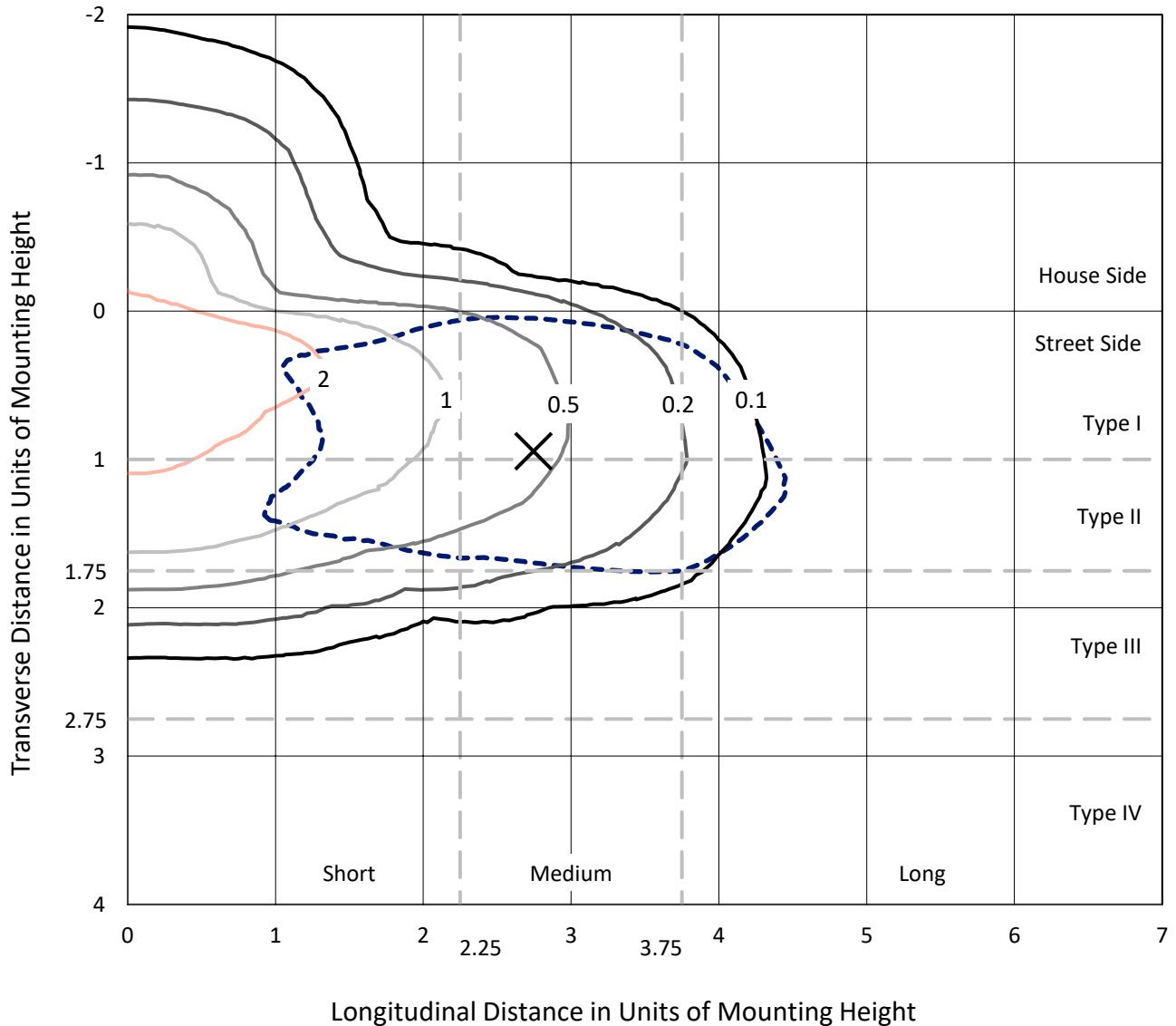
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

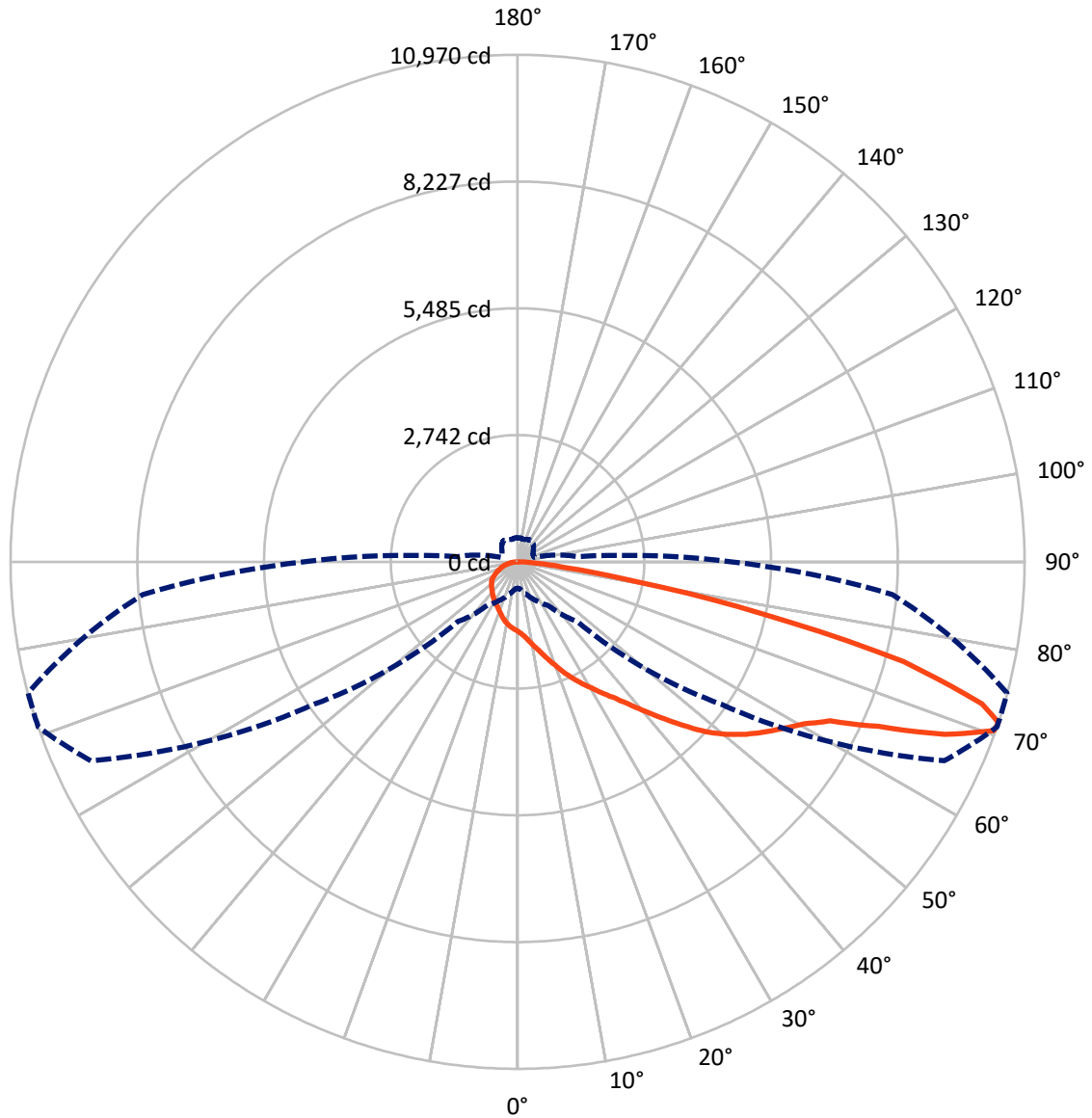
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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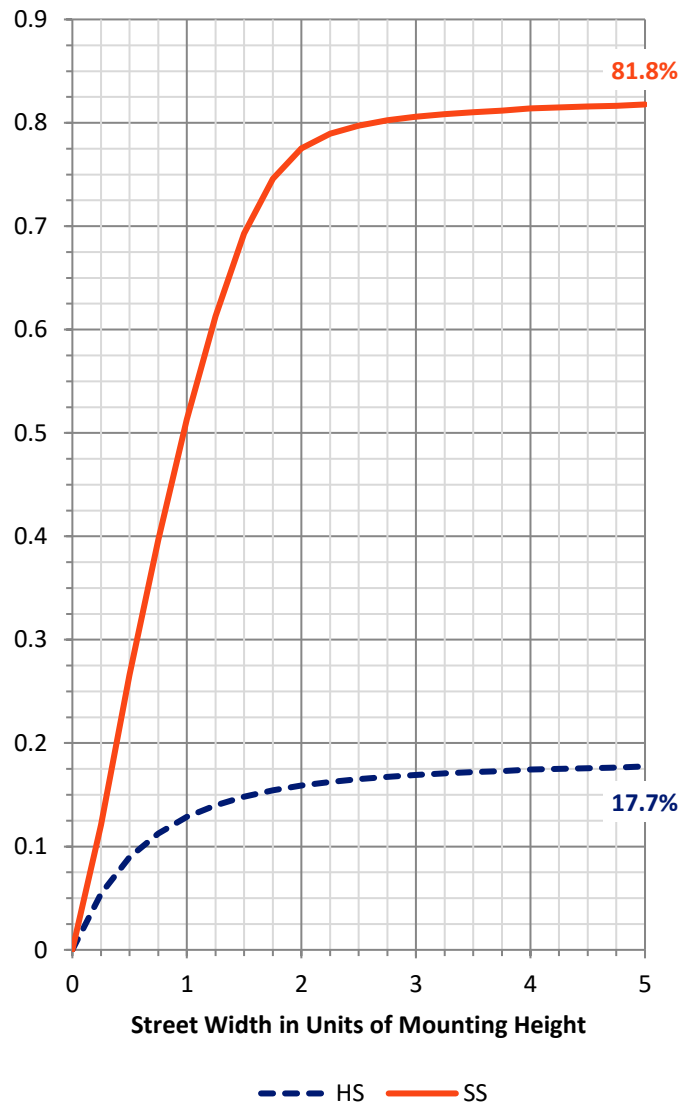
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.1	0.0	2203.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10046.9	0.0	10046.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	12250.0	0.0	12250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.2
10°-20°	490.4	4.0
20°-30°	857.1	7.0
30°-40°	1274.8	10.4
40°-50°	1878.3	15.3
50°-60°	2629.6	21.5
60°-70°	2941.1	24.0
70°-80°	1796.6	14.7
80°-90°	231.1	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°	12250.0	100.0
0°-180°	12250.0	100.0

Coefficient of Utilization

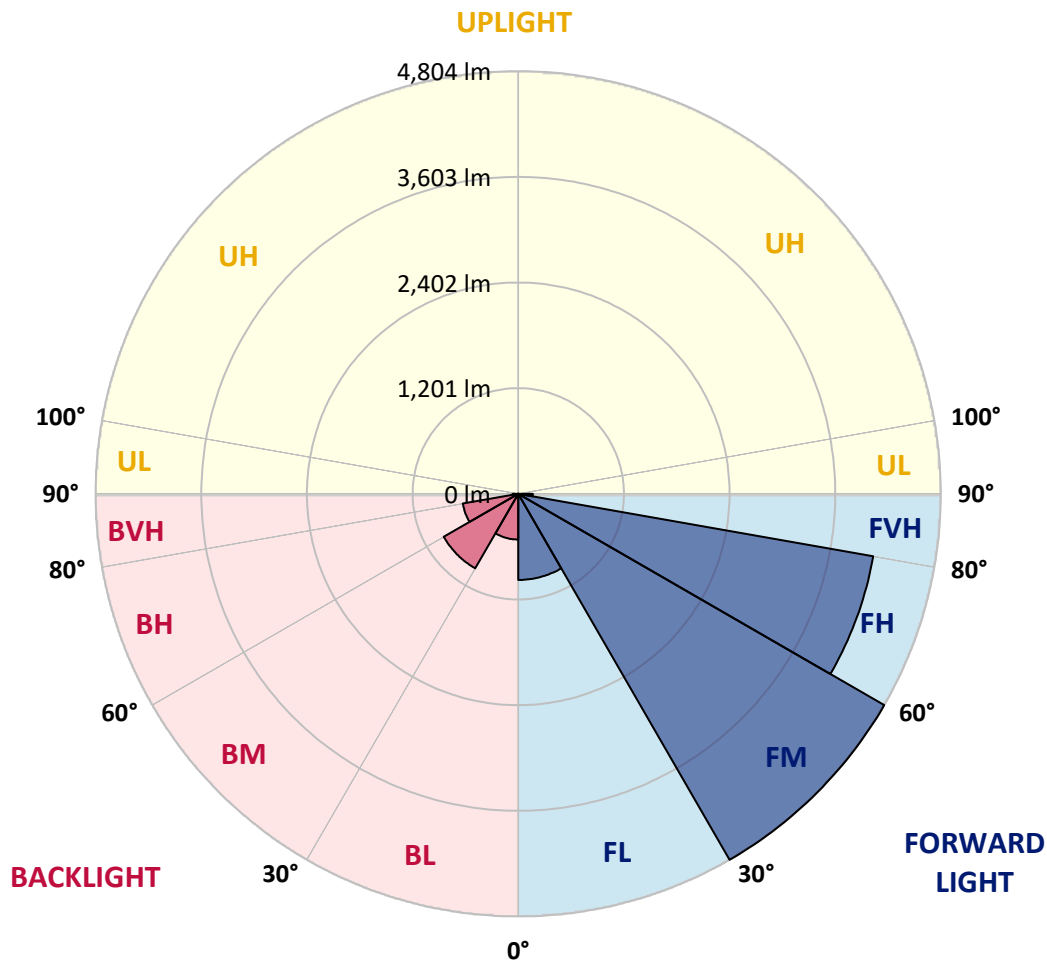


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.8	8.0			
FM (30°-60°)	4804.2	39.2			
FH (60°-80°)	4097.6	33.4			G2/5000
FVH (80°-90°)	166.3	1.4			G2/225
BL (0°-30°)	519.7	4.2	B2/1000		
BM (30°-60°)	978.5	8.0	B1/1000		
BH (60°-80°)	640.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	64.8	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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1669.0	1661.0	1661.7	1650.3	1635.5	1619.2	1596.4	1576.2	1560.0	1550.6	1523.0
5°	1849.5	1841.5	1831.4	1806.5	1795.7	1756.0	1705.5	1659.6	1624.6	1605.2	1549.9
7.5°	1995.6	1993.6	1990.9	1976.8	1949.2	1893.9	1850.9	1771.4	1719.5	1682.5	1588.3
10°	2085.8	2089.2	2091.2	2093.9	2082.5	2053.5	1994.3	1893.9	1828.0	1780.9	1638.1
12.5°	2131.6	2135.0	2146.4	2171.3	2186.8	2183.5	2135.0	2036.7	1945.8	1883.8	1691.3
15°	2159.9	2165.3	2185.5	2218.5	2270.3	2303.4	2279.8	2188.9	2089.2	2015.8	1754.6
17.5°	2190.9	2196.9	2219.2	2266.3	2334.3	2405.7	2431.2	2353.1	2244.7	2157.2	1825.3
20°	2208.4	2216.4	2248.1	2310.1	2389.5	2493.2	2578.0	2536.9	2418.5	2321.5	1906.8
22.5°	2236.6	2243.4	2270.3	2336.3	2431.2	2561.2	2724.8	2716.1	2611.7	2486.4	1996.3
25°	2313.5	2324.2	2337.6	2377.3	2469.0	2630.6	2846.7	2907.3	2798.8	2658.8	2078.5
27.5°	2458.2	2466.9	2466.2	2471.6	2523.5	2690.5	2952.4	3096.5	2984.7	2833.2	2157.9
30°	2623.1	2626.5	2629.2	2617.1	2628.5	2751.7	3049.3	3283.6	3171.9	3012.3	2227.2
32.5°	2823.7	2830.5	2807.6	2776.7	2767.2	2842.6	3129.4	3470.8	3393.4	3194.1	2295.9
35°	3060.7	3078.3	3031.8	2977.3	2938.9	2973.2	3237.2	3662.0	3620.3	3426.3	2386.8
37.5°	3331.4	3353.0	3309.9	3202.9	3148.3	3157.7	3377.9	3898.3	3907.1	3691.0	2522.1
40°	3552.9	3581.2	3582.5	3431.1	3348.3	3359.0	3556.3	4152.8	4253.2	4018.2	2681.7
42.5°	3699.0	3726.6	3755.6	3666.7	3579.9	3641.1	3764.4	4428.9	4642.3	4415.4	2904.5
45°	3859.3	3884.2	3900.4	3860.0	3811.5	3970.4	4015.5	4722.4	5057.1	4859.1	3148.3
47.5°	4045.1	4072.7	4088.2	4049.8	4031.7	4259.2	4286.1	4996.5	5500.1	5290.0	3417.6
50°	4292.9	4313.8	4305.6	4281.4	4277.4	4480.7	4546.0	5253.0	5865.7	5753.9	3697.0
52.5°	4601.2	4626.1	4634.9	4600.6	4585.1	4639.0	4755.4	5486.6	6198.3	6152.5	3995.3
55°	4787.7	4827.4	4960.8	5014.6	5051.7	4843.6	4981.0	5744.5	6496.6	6572.7	4315.7
57.5°	4548.8	4599.9	4898.1	5167.5	5515.5	5355.3	5300.8	6013.8	6794.8	6980.0	4699.6
60°	3965.7	3977.1	4361.5	4857.7	5558.0	6013.1	5968.0	6442.0	7118.0	7390.7	5205.1
62.5°	2751.1	2775.3	3229.8	4021.6	5034.1	6250.1	7103.1	7181.3	7581.2	8005.4	5946.5
65°	1418.6	1387.0	1801.1	2527.5	3795.4	5687.2	8022.9	8540.7	8585.8	8966.8	6990.1
67.5°	873.3	887.4	1081.3	1475.9	2244.1	4133.3	7926.6	10201.6	9964.0	10147.1	7959.0
70°	655.8	673.3	806.6	1009.9	1368.1	2363.3	6374.7	10604.2	10936.2	10889.1	8253.8
71°	570.3	588.4	727.2	919.0	1149.3	1823.9	5370.8	10182.8	10969.8	10961.8	8142.7
72.5°	486.1	497.6	606.0	778.3	968.9	1278.6	4035.0	9132.4	10501.9	10770.6	7746.1
75°	381.8	390.5	438.9	593.8	762.8	785.0	2165.3	6846.6	8625.4	9137.2	6448.7
77.5°	311.1	317.1	342.0	441.0	588.4	556.2	1135.8	4456.5	5403.8	5918.9	3798.7
80°	247.1	253.8	268.6	298.9	441.0	396.6	542.0	2258.2	2610.4	2605.0	1516.3
82.5°	191.9	193.9	211.4	219.5	301.6	281.4	293.5	956.0	1059.1	1094.1	547.4
85°	121.2	127.2	187.1	168.3	180.4	165.0	144.8	379.8	467.9	461.2	218.8
87.5°	37.0	39.1	63.3	71.3	80.1	72.0	53.2	111.7	136.7	148.1	54.6
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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1512.2	1504.8	1478.5	1457.0	1436.8	1414.6	1395.7	1390.4	1385.6	1383.6	1382.9
5°	1526.4	1504.1	1452.3	1409.9	1376.2	1345.2	1325.7	1316.9	1308.2	1308.2	1310.9
7.5°	1546.5	1506.2	1426.0	1362.7	1320.3	1291.4	1277.2	1275.9	1277.9	1279.9	1280.6
10°	1568.7	1504.8	1387.6	1308.9	1271.2	1257.7	1258.4	1269.8	1280.6	1288.7	1290.0
12.5°	1590.3	1496.7	1342.5	1258.4	1234.2	1236.8	1255.7	1281.3	1302.1	1313.6	1314.3
15°	1614.5	1483.9	1288.0	1210.6	1202.5	1223.4	1258.4	1297.4	1329.1	1347.9	1350.0
17.5°	1634.7	1462.4	1230.8	1164.1	1174.2	1212.6	1261.1	1311.5	1350.0	1373.5	1377.5
20°	1657.6	1434.8	1171.5	1119.7	1148.7	1200.5	1255.7	1310.2	1350.0	1372.8	1378.2
22.5°	1675.8	1395.7	1115.0	1083.3	1125.7	1185.7	1237.5	1281.3	1313.6	1325.7	1333.8
25°	1683.2	1346.6	1061.7	1053.7	1107.6	1161.4	1196.4	1221.3	1231.4	1230.1	1233.5
27.5°	1679.1	1290.0	1016.0	1030.1	1084.7	1123.7	1141.2	1139.2	1121.0	1104.2	1112.3
30°	1662.3	1222.7	977.6	1005.9	1055.0	1076.6	1073.9	1047.7	1013.3	981.6	983.7
32.5°	1632.1	1150.0	941.9	978.3	1013.3	1022.8	1004.5	970.2	921.0	880.0	873.9
35°	1606.5	1080.6	910.3	946.6	971.5	966.8	949.3	904.9	860.4	824.1	818.1
37.5°	1602.4	1021.3	880.0	910.9	925.1	918.4	896.8	859.1	843.0	815.3	812.0
40°	1623.9	979.6	849.0	873.3	880.0	874.6	851.0	829.5	844.3	837.6	837.6
42.5°	1682.5	957.5	821.4	835.5	840.9	845.0	828.2	809.9	828.2	797.2	787.1
45°	1775.5	958.1	796.5	798.5	814.7	828.8	817.4	790.4	781.0	719.1	707.0
47.5°	1912.2	980.9	776.3	763.5	792.5	816.0	799.8	760.8	719.1	678.0	670.6
50°	2071.7	1022.0	758.1	727.2	762.8	799.8	787.8	742.0	698.9	673.9	669.2
52.5°	2248.8	1073.9	735.9	686.8	726.5	792.5	790.4	739.2	680.0	663.2	659.1
55°	2467.6	1125.1	708.3	639.6	694.1	786.4	783.0	717.1	676.0	663.8	662.5
57.5°	2722.1	1199.1	668.6	591.8	657.1	761.5	754.1	703.6	662.5	653.7	653.1
60°	3132.2	1314.3	612.0	548.0	619.4	717.7	727.2	680.7	641.0	638.9	638.3
62.5°	3671.4	1475.9	553.4	502.9	575.7	661.2	688.1	649.7	618.1	628.2	629.5
65°	4416.1	1611.9	492.8	464.6	527.2	606.7	651.1	620.8	592.5	612.0	612.0
67.5°	4901.5	1614.5	437.6	424.9	478.0	560.9	612.0	586.5	559.5	592.5	593.8
70°	4800.6	1414.6	391.9	383.1	430.3	511.7	568.9	548.7	517.7	547.4	536.6
71°	4637.6	1303.5	373.6	366.9	411.4	488.1	548.7	531.9	501.0	520.5	514.4
72.5°	4377.7	1131.8	344.1	345.4	383.1	458.5	520.5	502.9	472.0	482.7	480.8
75°	3700.4	988.4	294.3	300.3	329.3	408.0	463.9	450.5	418.7	418.7	416.8
77.5°	2313.5	690.8	244.4	247.7	279.5	349.5	398.5	387.1	356.8	346.7	344.1
80°	863.2	356.8	191.2	195.3	214.8	275.4	329.9	319.2	288.1	276.7	266.0
82.5°	326.5	179.1	140.7	137.3	158.2	210.1	258.5	245.8	221.5	193.9	185.8
85°	123.2	88.9	86.2	83.5	92.9	124.6	160.3	157.5	131.9	112.4	110.4
87.5°	32.3	29.0	33.7	24.9	26.2	23.6	24.3	10.1	4.7	2.0	1.3
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)