

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: P652299

Luminaire Tested: **GALN-SA3B-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14558.6 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

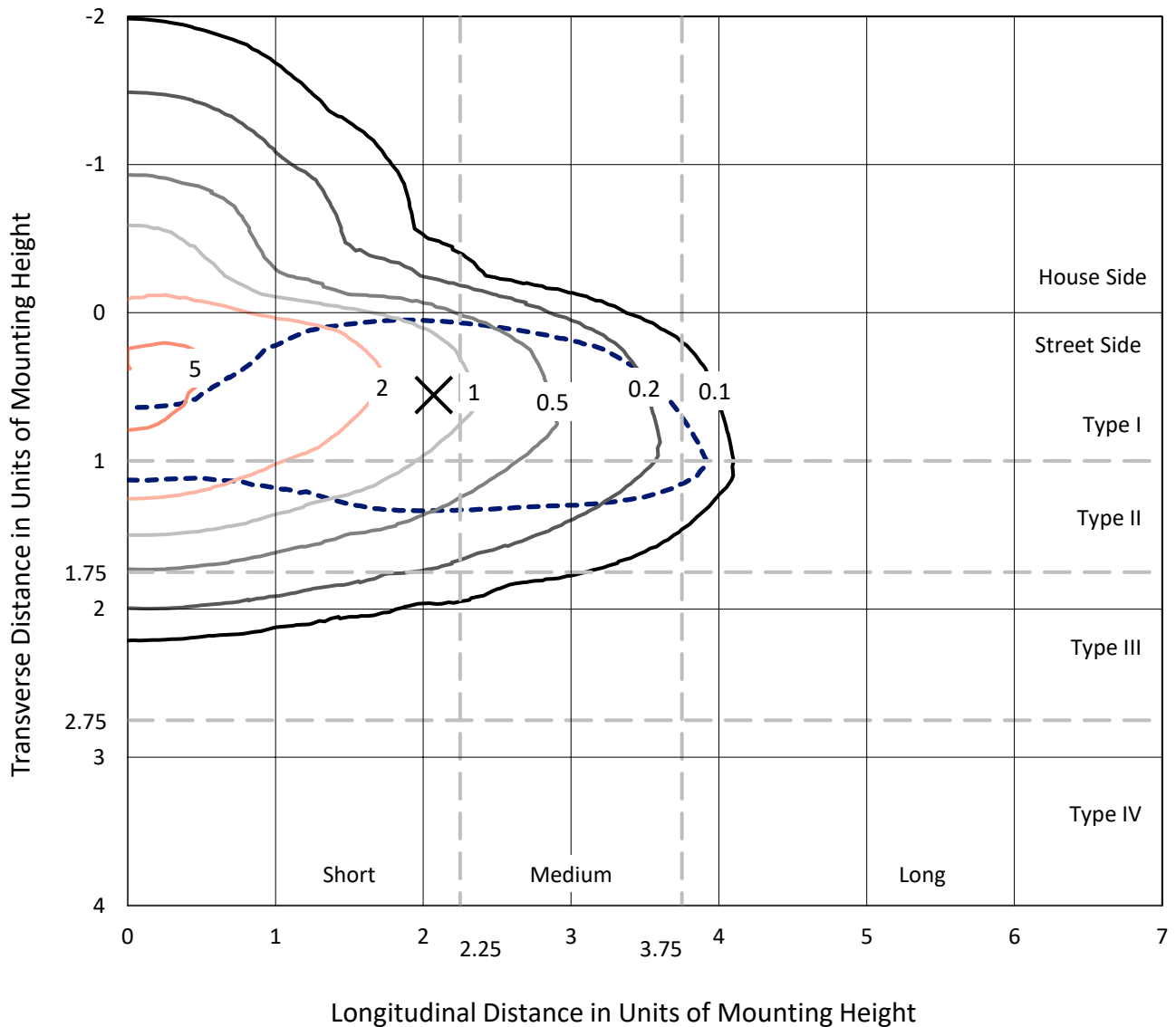
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

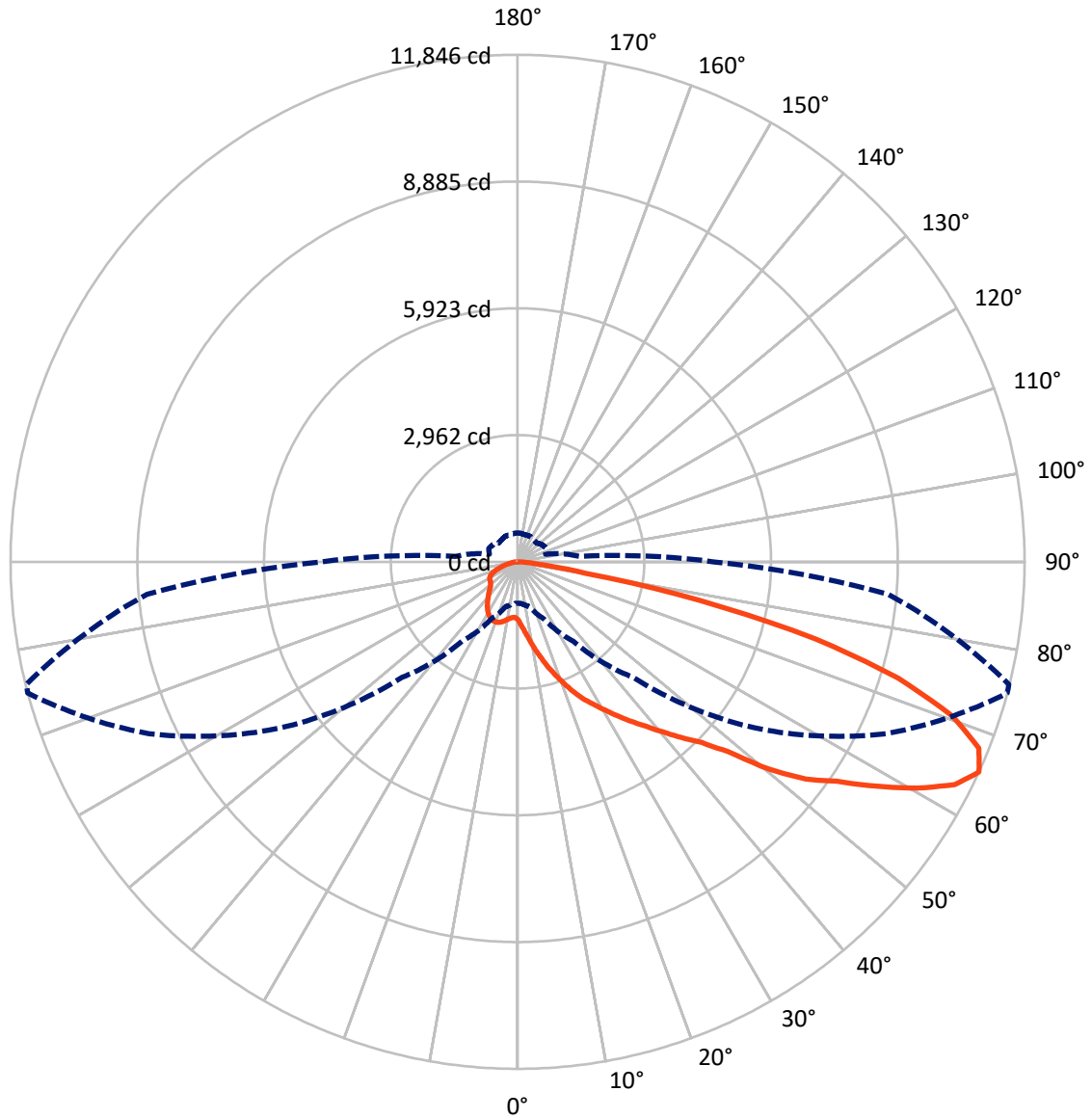
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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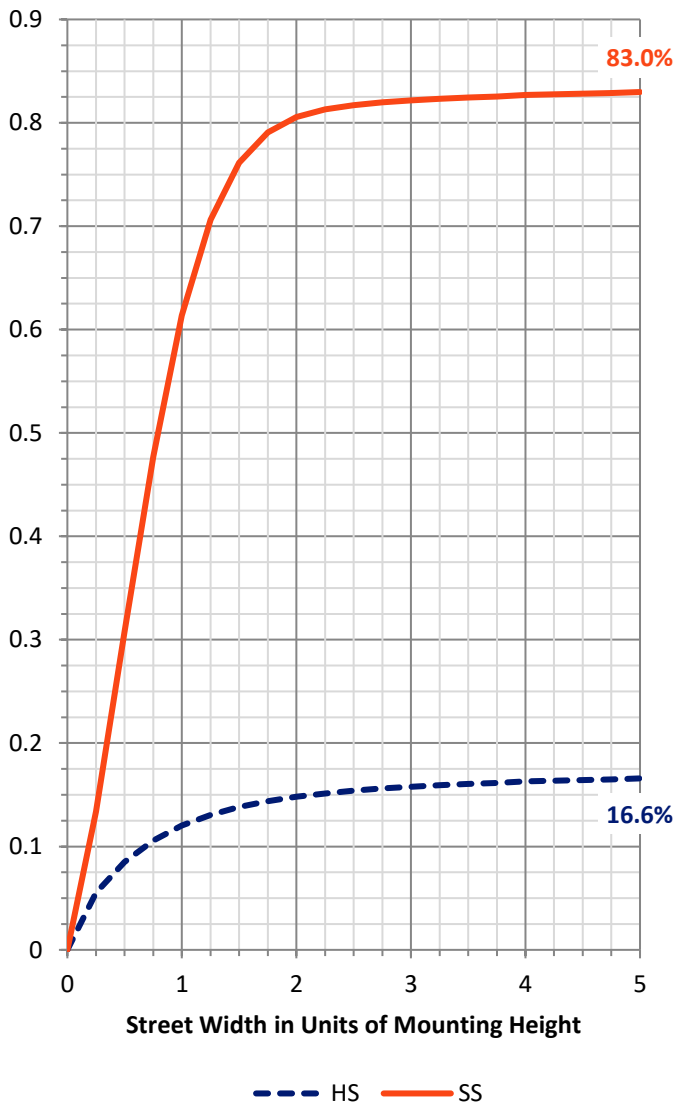
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2447.5	0.0	2447.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	12111.1	0.0	12111.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	14558.6	0.0	14558.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	1.1
10°-20°	643.7	4.4
20°-30°	1243.4	8.5
30°-40°	2019.7	13.9
40°-50°	2778.3	19.1
50°-60°	3280.3	22.5
60°-70°	2874.0	19.7
70°-80°	1372.1	9.4
80°-90°	182.6	1.3
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°	14558.6	100.0
0°-180°	14558.6	100.0

**Coefficient of Utilization**

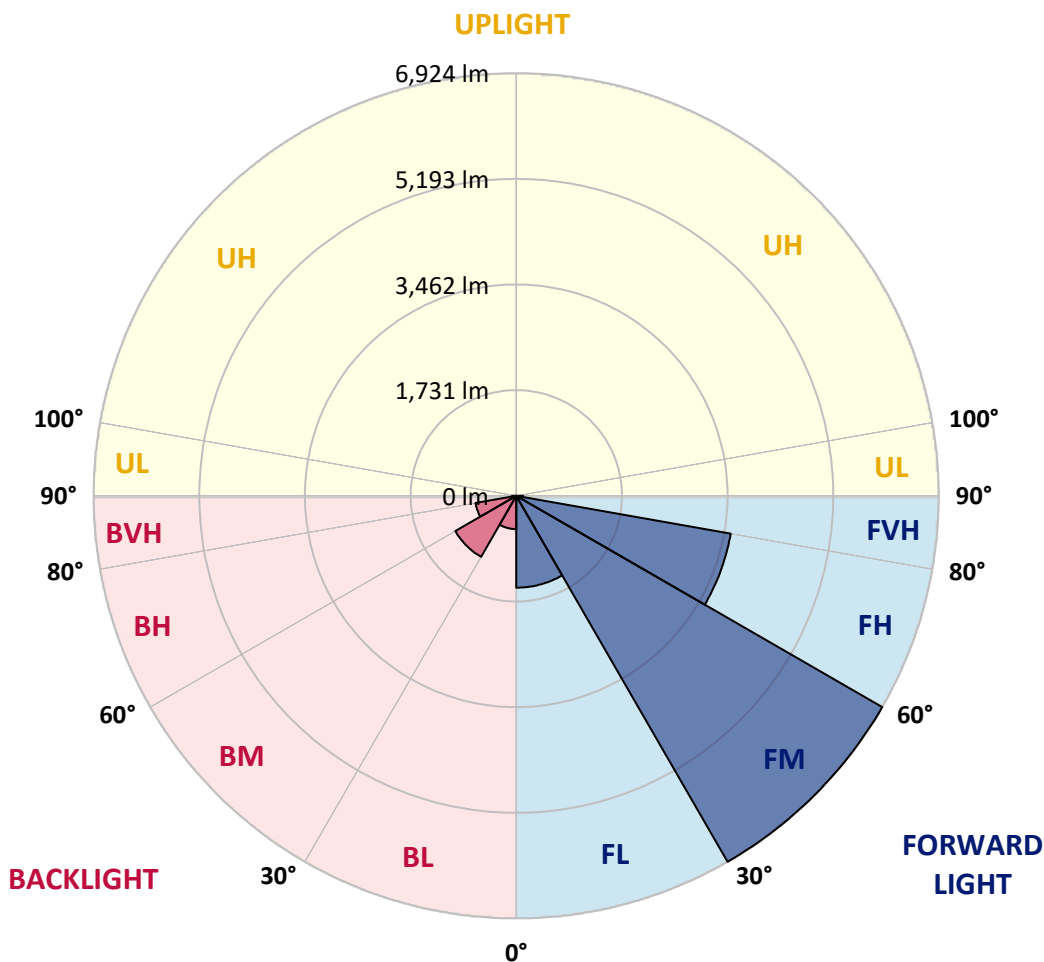


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.1	10.3			
FM (30°-60°)	6924.4	47.6			
FH (60°-80°)	3567.5	24.5			G2/5000
FVH (80°-90°)	114.1	0.8			G2/225
BL (0°-30°)	546.4	3.8	B2/1000		
BM (30°-60°)	1154.0	7.9	B2/2500		
BH (60°-80°)	678.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7
2.5°	1797.2	1785.4	1772.7	1738.0	1700.9	1659.0	1599.1	1541.4	1464.8	1462.4	1405.6
5°	2295.5	2287.6	2231.6	2199.2	2113.1	1998.6	1901.5	1750.6	1610.9	1594.3	1483.8
7.5°	2753.5	2722.7	2701.4	2642.9	2557.6	2410.8	2222.8	2019.2	1785.4	1763.3	1580.1
10°	3098.6	3095.5	3084.4	3033.8	2969.9	2823.8	2615.3	2323.2	2006.5	1963.1	1697.0
12.5°	3356.8	3359.2	3357.6	3356.8	3311.0	3187.1	2961.2	2653.3	2230.0	2199.2	1832.0
15°	3526.6	3550.3	3559.8	3599.2	3603.2	3520.3	3326.0	2972.3	2481.9	2436.0	1977.3
17.5°	3638.8	3650.5	3694.8	3761.9	3816.4	3801.4	3628.4	3267.5	2739.3	2662.7	2128.2
20°	3746.1	3766.7	3800.6	3892.2	3988.5	4032.8	3911.2	3570.0	2994.4	2945.4	2294.8
22.5°	3969.6	3998.8	4010.6	4057.2	4139.3	4217.5	4162.3	3859.9	3273.9	3207.6	2471.6
25°	4347.8	4378.6	4345.4	4334.4	4361.3	4399.9	4388.1	4133.0	3537.7	3442.9	2639.0
27.5°	4840.5	4844.5	4779.7	4718.2	4651.8	4632.1	4595.8	4375.5	3766.7	3687.7	2807.2
30°	5369.6	5350.7	5243.3	5132.0	5019.8	4909.3	4805.1	4609.2	4021.7	3930.9	2972.3
32.5°	5860.8	5850.5	5731.3	5558.3	5368.9	5264.6	5053.7	4845.3	4294.9	4207.3	3142.1
35°	6228.8	6243.8	6112.7	5924.0	5717.1	5624.7	5358.6	5093.3	4577.6	4482.0	3326.8
37.5°	6490.2	6482.3	6366.2	6202.7	6021.1	5940.6	5714.7	5364.1	4881.6	4790.0	3528.9
40°	6583.3	6578.6	6492.5	6373.3	6258.0	6229.5	6087.4	5656.3	5229.8	5122.4	3772.1
42.5°	6524.1	6534.4	6477.6	6445.2	6423.8	6444.3	6457.8	6039.2	5609.7	5511.0	4035.9
45°	6342.5	6336.9	6329.0	6381.9	6502.0	6637.0	6824.2	6400.9	6022.7	5943.7	4389.7
47.5°	6017.9	6057.4	6077.2	6223.2	6485.4	6805.2	7245.8	6885.8	6622.0	6553.3	4929.0
50°	5563.9	5595.5	5712.3	5972.1	6363.0	6868.4	7658.1	7678.6	7621.7	7493.0	5514.9
52.5°	4854.8	4903.7	5144.6	5620.7	6111.9	6842.3	7907.6	8358.4	8433.5	8337.2	6092.2
55°	4061.2	4129.9	4384.1	5008.7	5766.1	6700.2	8079.7	8752.5	9051.8	8962.5	6648.1
57.5°	3284.2	3356.8	3618.2	4223.1	5162.7	6385.9	8192.6	9191.5	9893.5	9777.5	7339.8
60°	2461.4	2537.1	2761.4	3384.4	4303.6	5771.5	8116.1	9572.2	10734.5	10684.7	8032.3
62.5°	1588.0	1671.7	1866.8	2382.4	3307.8	4932.1	7706.3	9782.2	11462.6	11402.5	8537.7
65°	967.3	976.8	1084.2	1479.0	2264.0	3818.7	6768.9	9503.5	11846.3	11828.2	8691.7
67.5°	625.4	640.4	689.4	886.0	1357.4	2652.4	5412.3	8583.5	11622.1	11615.8	8373.5
70°	528.3	533.0	555.1	597.8	788.9	1608.5	3800.6	7117.1	10770.1	10770.1	7608.3
72.5°	472.2	478.5	486.4	499.9	563.0	911.2	2267.8	5540.2	9298.9	9360.5	6476.0
75°	428.7	427.2	431.9	434.3	480.1	595.4	1172.6	4097.5	7193.7	7070.5	4689.8
77.5°	367.2	369.5	367.2	377.4	424.0	453.3	595.4	2749.6	4359.7	4200.1	2354.0
80°	301.7	305.6	309.6	315.9	362.5	344.3	357.7	1253.2	1612.4	1578.5	727.3
82.5°	226.6	232.1	238.5	253.5	285.1	227.4	225.8	535.4	582.0	533.0	267.7
85°	91.6	108.2	163.5	178.5	179.2	124.8	139.0	223.5	237.7	232.1	105.0
87.5°	21.4	25.2	52.9	79.7	73.4	46.6	51.3	72.7	82.9	76.6	35.6
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°	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7	1352.7
2.5°	1379.5	1351.9	1304.5	1268.1	1242.2	1219.2	1205.0	1196.3	1193.1	1192.4	1193.1
5°	1426.1	1377.1	1302.1	1254.8	1228.7	1213.7	1205.0	1204.2	1205.0	1205.8	1203.5
7.5°	1490.1	1419.8	1321.9	1277.6	1257.9	1246.9	1242.9	1241.3	1242.2	1241.3	1241.3
10°	1575.4	1479.0	1360.6	1314.7	1298.2	1285.6	1279.2	1275.3	1272.1	1269.0	1267.4
12.5°	1669.3	1544.6	1402.5	1358.2	1334.5	1314.7	1300.5	1290.3	1283.2	1276.0	1274.5
15°	1774.3	1614.0	1449.0	1387.4	1353.4	1324.2	1299.8	1283.2	1270.6	1260.3	1259.5
17.5°	1874.7	1679.6	1480.6	1400.9	1351.1	1310.0	1277.6	1254.8	1239.0	1225.5	1224.0
20°	1982.0	1742.0	1494.8	1392.2	1327.4	1277.6	1235.0	1207.3	1189.2	1174.2	1171.8
22.5°	2090.2	1794.9	1493.2	1364.5	1286.3	1227.9	1182.9	1153.7	1132.3	1117.4	1111.8
25°	2193.7	1837.5	1473.5	1320.3	1229.5	1168.7	1122.9	1096.1	1077.1	1058.9	1058.9
27.5°	2286.8	1862.8	1436.3	1266.6	1171.1	1107.1	1070.8	1046.3	1028.9	1017.1	1010.0
30°	2378.4	1874.7	1385.8	1198.7	1109.4	1055.0	1025.8	1011.6	995.7	982.3	980.8
32.5°	2460.5	1872.2	1322.6	1132.3	1051.0	1012.3	1000.5	989.4	972.9	953.9	949.2
35°	2540.3	1856.5	1247.6	1059.7	1002.1	987.1	990.2	974.5	944.4	920.7	916.8
37.5°	2627.2	1828.1	1165.5	1000.5	961.0	975.2	983.1	948.4	899.4	862.3	853.6
40°	2727.4	1795.7	1080.3	941.2	928.6	964.2	964.2	900.2	833.1	810.2	803.8
42.5°	2845.1	1768.8	1009.2	891.5	901.8	937.3	933.3	836.2	808.6	796.8	793.6
45°	3031.5	1759.4	935.7	848.1	879.7	905.8	873.4	814.2	798.4	788.9	785.7
47.5°	3326.0	1770.4	871.0	815.7	854.4	874.1	806.3	799.1	788.1	774.6	773.0
50°	3599.2	1760.1	825.2	797.5	832.3	836.2	778.6	781.0	774.6	759.7	756.5
52.5°	3822.7	1727.8	796.0	788.1	813.3	769.9	752.5	761.2	758.8	739.9	736.7
55°	4068.3	1708.0	781.8	788.1	800.7	712.2	728.1	740.7	737.6	724.1	723.3
57.5°	4366.0	1711.9	771.4	790.5	788.1	683.1	703.6	718.6	717.8	713.8	713.8
60°	4670.8	1713.5	755.7	789.6	773.0	660.2	678.4	699.6	701.2	703.6	703.6
62.5°	4771.8	1644.8	724.9	775.4	739.9	638.1	654.6	683.8	682.2	688.6	689.4
65°	4583.1	1454.5	679.1	743.0	697.3	622.3	636.5	663.3	654.6	671.2	674.4
67.5°	4171.7	1203.5	608.0	684.7	649.9	605.7	624.6	634.9	619.1	651.4	652.3
70°	3605.5	939.6	518.0	601.7	596.2	588.3	615.1	599.4	577.3	616.7	608.8
72.5°	3014.9	717.8	413.8	492.0	524.4	562.2	598.5	553.5	522.8	534.6	520.4
75°	2264.7	530.7	332.4	385.3	436.6	525.1	583.6	498.3	450.9	439.8	436.6
77.5°	1154.4	346.7	248.8	288.2	327.7	474.6	563.0	433.5	373.5	356.2	348.3
80°	412.2	215.5	175.3	199.0	221.1	408.2	492.0	358.5	289.8	286.6	289.8
82.5°	191.1	139.0	117.7	130.3	131.1	272.4	375.1	267.7	220.3	334.8	282.7
85°	82.2	69.5	66.4	64.8	60.0	121.6	210.8	143.7	224.3	100.2	92.4
87.5°	24.5	27.7	24.5	18.2	13.5	13.5	21.4	7.9	5.6	4.0	4.0
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)