

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: P651911

Luminaire Tested: **GALN-SA5A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12738.6 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

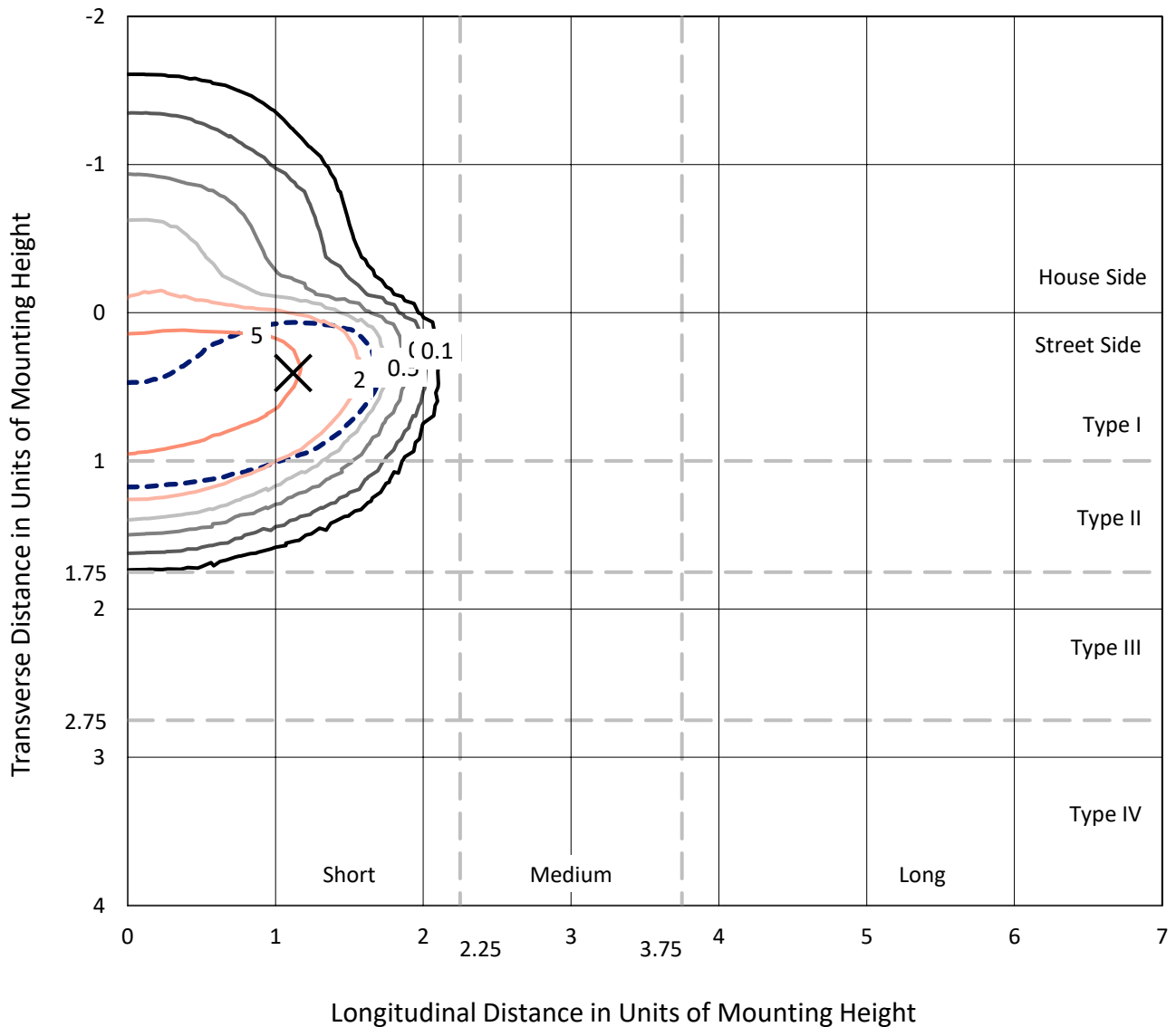
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651911
 CATALOG NUMBER: GALN-SA5A-840-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

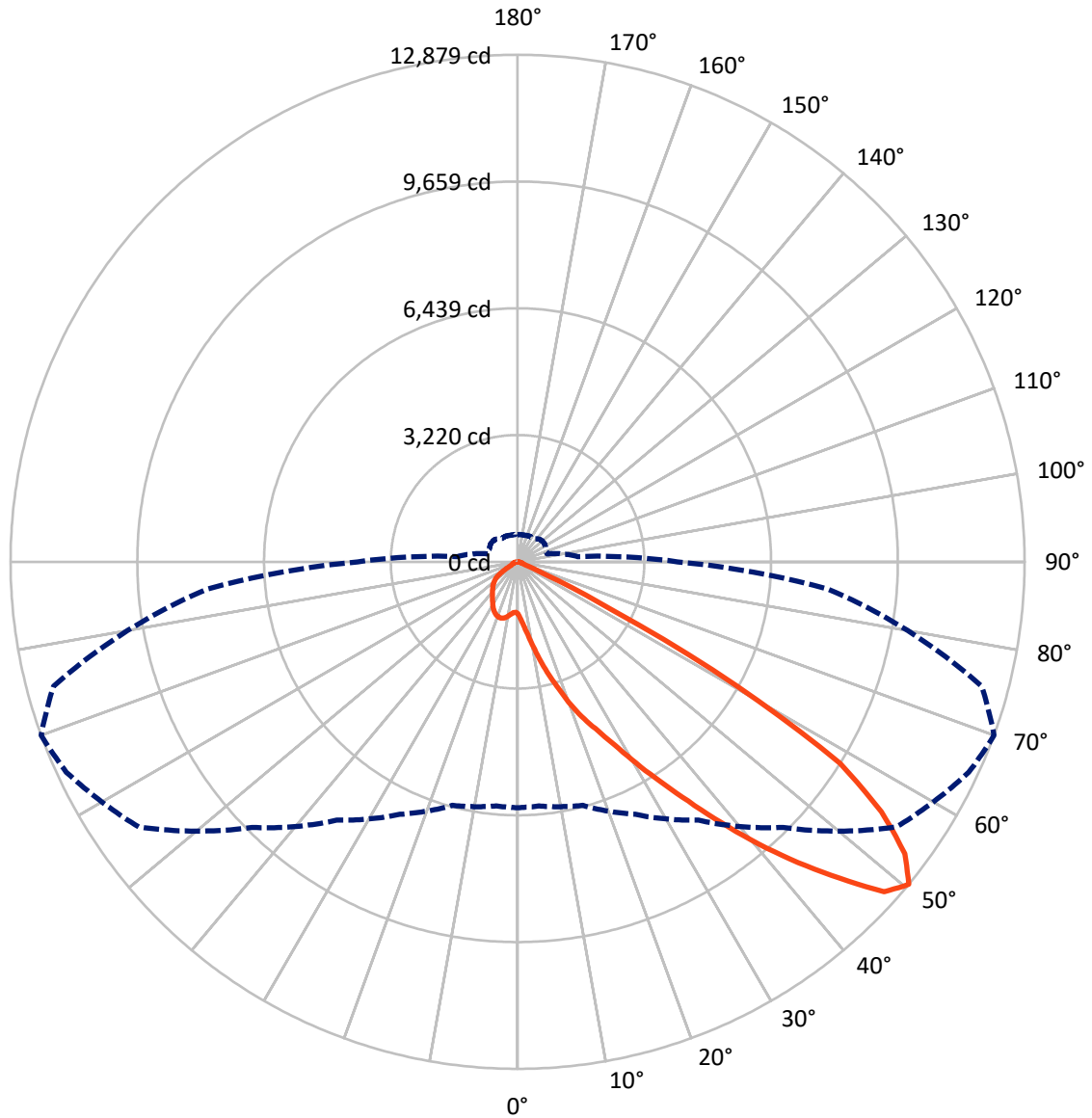
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

REPORT NUMBER: P651911
CATALOG NUMBER: GALN-SA5A-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA5A-840-U-T2R-GRSBK

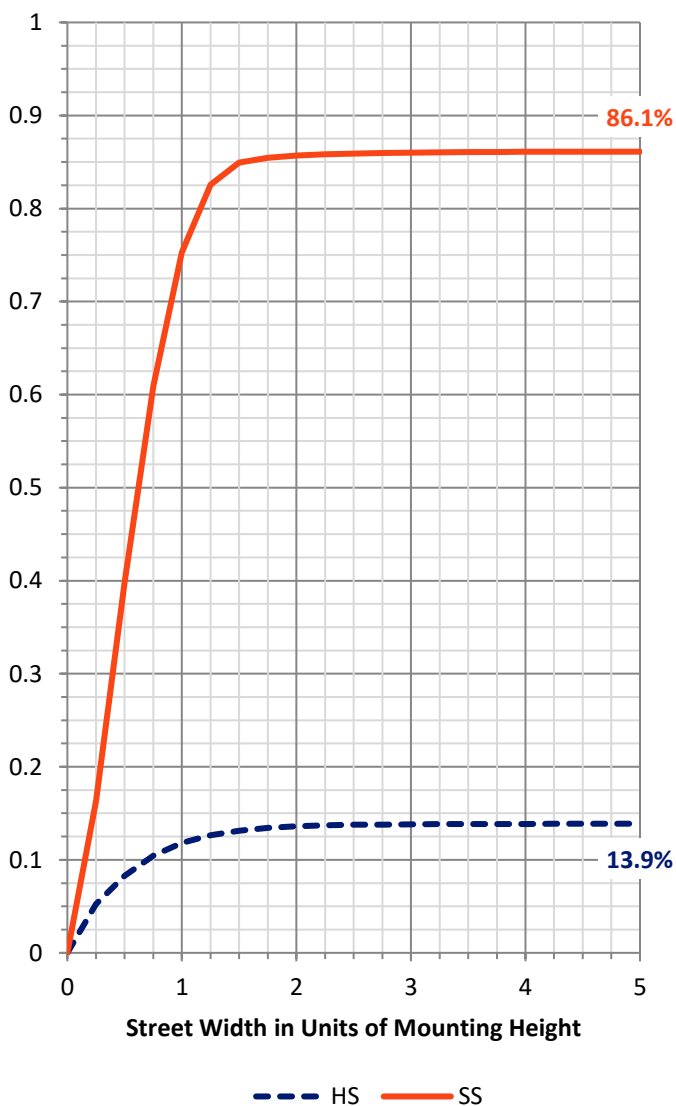
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.0	0.0	1779.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10959.6	0.0	10959.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	12738.6	0.0	12738.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.3
10°-20°	742.2	5.8
20°-30°	1557.0	12.2
30°-40°	2683.7	21.1
40°-50°	3922.3	30.8
50°-60°	3054.8	24.0
60°-70°	517.6	4.1
70°-80°	71.1	0.6
80°-90°	18.4	0.1
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°	12738.6	100.0
0°-180°	12738.6	100.0

Coefficient of Utilization



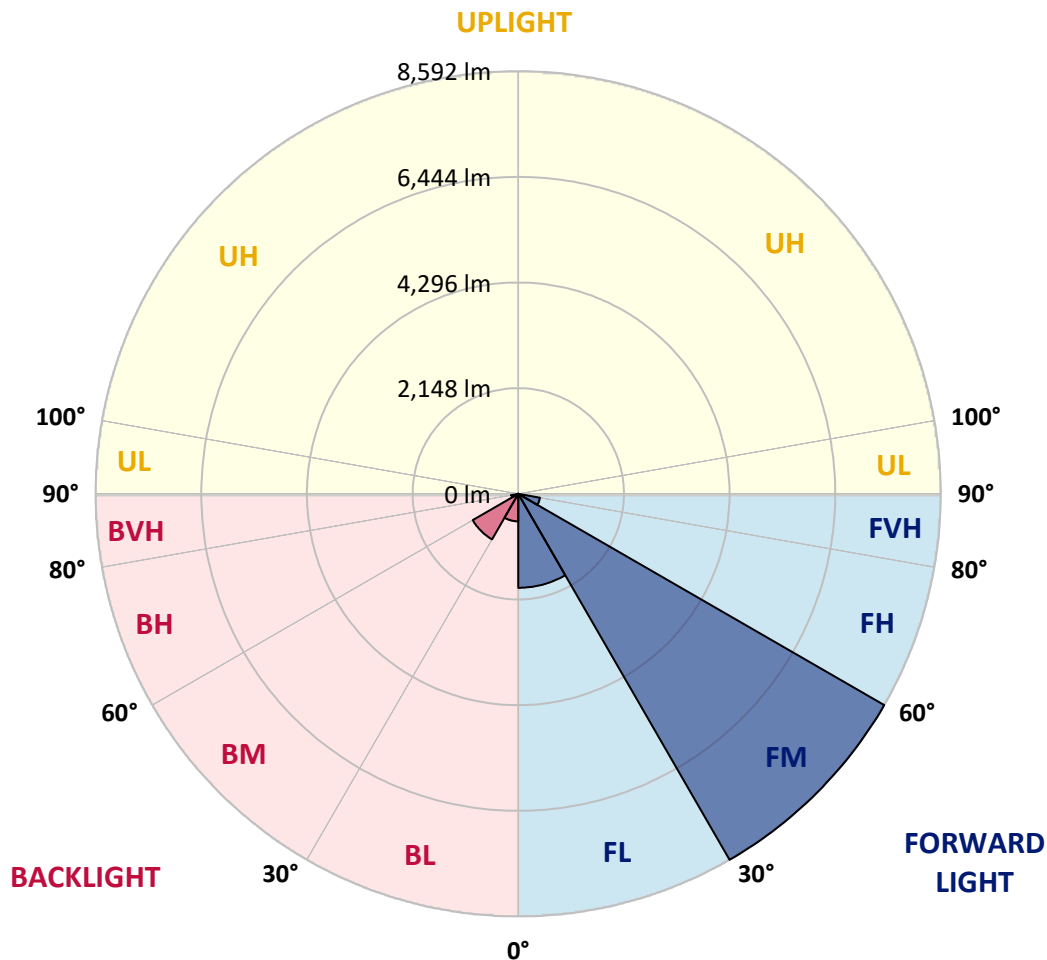
REPORT NUMBER: P651911
 CATALOG NUMBER: GALN-SA5A-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.9	15.0			
FM (30°-60°)	8592.0	67.4			
FH (60°-80°)	448.1	3.5			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	559.8	4.4	B2/1000		
BM (30°-60°)	1068.8	8.4	B2/2500		
BH (60°-80°)	140.5	1.1	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





REPORT NUMBER: P651911

CATALOG NUMBER: GALN-SA5A-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1727.9	1715.3	1688.1	1637.8	1616.9	1566.6	1537.3	1480.7	1445.2	1405.3	1361.3
5°	2433.7	2368.8	2329.0	2272.4	2107.0	2004.4	1834.7	1690.2	1623.1	1549.9	1449.3
7.5°	3162.6	3120.6	3066.2	2944.8	2831.6	2618.0	2326.9	2008.6	1872.4	1746.8	1547.8
10°	3765.7	3648.4	3642.1	3552.1	3428.5	3173.0	2823.2	2427.4	2184.5	2000.2	1688.1
12.5°	4186.7	4079.9	4128.0	4117.6	4002.4	3767.8	3363.6	2840.0	2586.6	2299.6	1832.6
15°	4570.0	4526.0	4511.3	4498.8	4452.7	4278.8	3916.5	3342.6	2976.1	2630.6	1995.9
17.5°	4944.9	4831.8	4886.2	4896.7	4892.5	4735.4	4396.2	3820.2	3388.7	2980.3	2167.7
20°	5277.9	5288.4	5215.0	5200.4	5187.8	5181.6	4850.6	4293.6	3895.6	3346.8	2391.8
22.5°	5705.2	5631.8	5696.8	5654.9	5573.2	5522.9	5269.5	4712.4	4335.4	3788.8	2620.1
25°	6209.9	6268.6	6115.7	6098.8	6008.9	5835.0	5606.7	5181.6	4758.5	4199.3	2867.2
27.5°	6831.9	6729.3	6689.5	6597.4	6434.0	6360.7	6092.6	5665.3	5269.5	4630.7	3106.0
30°	7366.0	7338.7	7139.8	7030.9	6888.5	6886.4	6511.4	6320.9	5935.5	5307.2	3434.8
32.5°	7801.6	7682.3	7608.9	7533.5	7418.4	7449.7	7133.5	7033.0	6645.5	5935.5	3822.3
35°	8092.8	8006.9	7962.9	7847.7	7814.2	7954.5	7822.6	7780.7	7462.4	6819.3	4276.7
37.5°	8184.9	8212.1	8203.8	8059.2	8130.5	8509.6	8679.2	8570.3	8402.8	7751.3	4769.0
40°	8266.6	8285.4	8243.6	8413.2	8616.4	9047.8	9661.5	9481.3	9418.5	8695.9	5453.8
42.5°	8312.7	8298.0	8298.0	8591.2	8899.1	9766.2	10610.2	10490.8	10442.7	9701.3	6245.5
45°	8113.7	7971.3	8124.1	8522.1	9142.1	10120.2	11368.4	11533.8	11464.8	10897.2	7171.2
47.5°	7370.2	7458.2	7544.0	8076.0	8846.7	10011.3	11833.4	12396.8	12524.5	11902.5	7778.6
50°	6245.5	6226.7	6404.6	7074.9	8011.1	9542.1	11743.3	12645.9	12878.5	12204.1	7906.3
52.5°	4542.7	4681.0	4873.7	5539.7	6649.7	8327.3	10580.9	12003.0	12313.0	11833.4	7822.6
55°	2645.2	2492.3	2925.8	3489.3	4536.4	6281.1	8945.2	10639.6	11213.4	11159.0	7399.5
57.5°	1059.7	1026.3	1175.0	1583.4	2366.7	3893.5	6505.2	8742.0	9661.5	10220.7	6503.1
60°	465.0	454.5	534.0	645.0	967.6	1794.9	3558.4	5437.1	6396.3	7141.9	4475.7
62.5°	335.1	330.9	370.7	410.5	511.0	781.2	1495.4	2190.7	2731.1	3298.7	2004.4
65°	270.2	280.6	307.9	328.8	377.0	433.5	527.8	609.5	747.7	774.9	441.9
67.5°	219.9	228.2	253.4	276.4	284.8	234.6	243.0	213.6	213.6	190.6	152.9
70°	161.3	163.3	192.7	219.9	175.9	94.3	165.4	165.4	148.7	142.4	129.9
72.5°	119.4	121.4	144.5	136.2	69.1	58.6	121.4	134.1	121.4	115.2	104.7
75°	88.0	90.1	75.4	31.5	29.4	37.7	71.2	92.2	88.0	85.9	79.6
77.5°	16.7	12.5	10.5	14.6	20.9	31.5	46.1	56.5	58.6	62.8	58.6
80°	2.1	2.1	6.3	12.5	23.0	33.5	48.2	54.4	56.5	58.6	54.4
82.5°	0.0	2.1	6.3	12.5	23.0	31.5	41.9	48.2	52.4	54.4	52.4
85°	0.0	2.1	4.2	10.5	18.8	23.0	20.9	14.6	12.5	14.6	10.5
87.5°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651911

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4	1319.4
2.5°	1336.3	1327.9	1298.5	1267.1	1239.9	1252.4	1239.9	1229.4	1233.6	1229.4	1225.3
5°	1409.5	1371.8	1309.0	1281.8	1258.7	1256.6	1250.3	1248.3	1250.3	1250.3	1231.5
7.5°	1478.6	1417.9	1350.9	1321.5	1294.3	1296.4	1281.8	1281.8	1279.7	1269.2	1265.0
10°	1583.4	1501.7	1415.8	1363.4	1330.0	1323.6	1309.0	1294.3	1294.3	1294.3	1273.4
12.5°	1698.6	1596.0	1478.6	1417.9	1378.1	1346.7	1323.6	1319.4	1296.4	1292.3	1281.8
15°	1799.1	1669.2	1520.5	1436.8	1386.5	1344.6	1309.0	1286.0	1275.5	1269.2	1260.8
17.5°	1897.5	1732.0	1543.6	1436.8	1382.3	1334.2	1296.4	1275.5	1250.3	1254.5	1237.8
20°	2029.5	1799.1	1549.9	1409.5	1342.5	1296.4	1246.2	1235.7	1221.0	1208.4	1212.6
22.5°	2157.2	1847.3	1531.0	1376.0	1279.7	1225.3	1200.1	1187.5	1181.3	1170.8	1156.1
25°	2272.4	1899.7	1501.7	1315.3	1212.6	1172.9	1149.8	1147.7	1133.1	1133.1	1105.8
27.5°	2389.7	1918.5	1451.4	1244.1	1154.0	1131.0	1120.5	1116.3	1110.0	1095.4	1076.5
30°	2523.8	1924.7	1378.1	1170.8	1101.6	1076.5	1091.2	1101.6	1074.5	1047.2	1055.5
32.5°	2634.8	1910.1	1290.2	1101.6	1063.9	1051.4	1080.7	1091.2	1059.7	1030.5	1015.8
35°	2768.8	1874.5	1204.3	1047.2	1026.3	1051.4	1076.5	1076.5	1013.7	978.1	969.7
37.5°	2971.9	1834.7	1124.7	1001.1	986.5	1038.8	1072.4	1049.3	950.8	906.9	896.4
40°	3189.7	1809.6	1047.2	955.0	965.6	1017.9	1036.7	965.6	865.0	837.7	829.4
42.5°	3506.0	1759.3	978.1	915.3	946.6	988.6	988.6	860.8	823.1	808.5	806.4
45°	3899.8	1723.7	917.4	881.7	919.5	929.9	896.4	806.4	779.1	774.9	777.0
47.5°	4092.5	1654.6	854.5	841.9	869.2	871.3	783.3	762.4	739.3	733.0	728.8
50°	4063.1	1531.0	772.8	789.6	827.3	806.4	714.2	718.4	697.4	695.3	684.8
52.5°	3857.9	1336.3	691.1	730.9	772.8	712.1	657.7	653.5	653.5	626.2	615.8
55°	3420.2	1076.5	592.7	642.9	693.2	599.0	584.3	580.1	569.7	544.5	538.2
57.5°	2708.0	789.6	446.1	500.6	588.5	509.0	506.9	488.0	460.8	441.9	441.9
60°	1610.6	454.5	280.6	305.8	389.6	412.6	458.7	450.3	404.2	374.9	366.5
62.5°	735.1	234.6	178.0	182.2	209.4	268.1	360.2	416.8	351.9	301.6	297.4
65°	247.2	173.8	146.6	140.4	144.5	161.3	215.7	295.3	280.6	232.5	224.1
67.5°	150.8	155.0	138.3	127.7	127.7	125.6	123.5	134.1	165.4	161.3	163.3
70°	129.9	142.4	127.7	115.2	111.0	104.7	88.0	73.3	62.8	73.3	77.5
72.5°	104.7	113.1	108.9	98.4	88.0	79.6	62.8	48.2	35.6	31.5	31.5
75°	77.5	83.8	88.0	75.4	67.0	56.5	46.1	31.5	18.8	12.5	12.5
77.5°	56.5	62.8	64.9	58.6	50.3	39.8	29.4	20.9	10.5	4.2	4.2
80°	48.2	56.5	62.8	58.6	52.4	37.7	27.2	14.6	8.4	2.1	2.1
82.5°	46.1	56.5	62.8	56.5	50.3	35.6	27.2	16.7	6.3	2.1	2.1
85°	10.5	14.6	18.8	23.0	27.2	27.2	20.9	12.5	6.3	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	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)