

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: P530217

Luminaire Tested: **GALN-SA5B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530217
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-SA5B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 14976 lumens
Efficiency: N/A
Efficacy: 73.4 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): 204
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



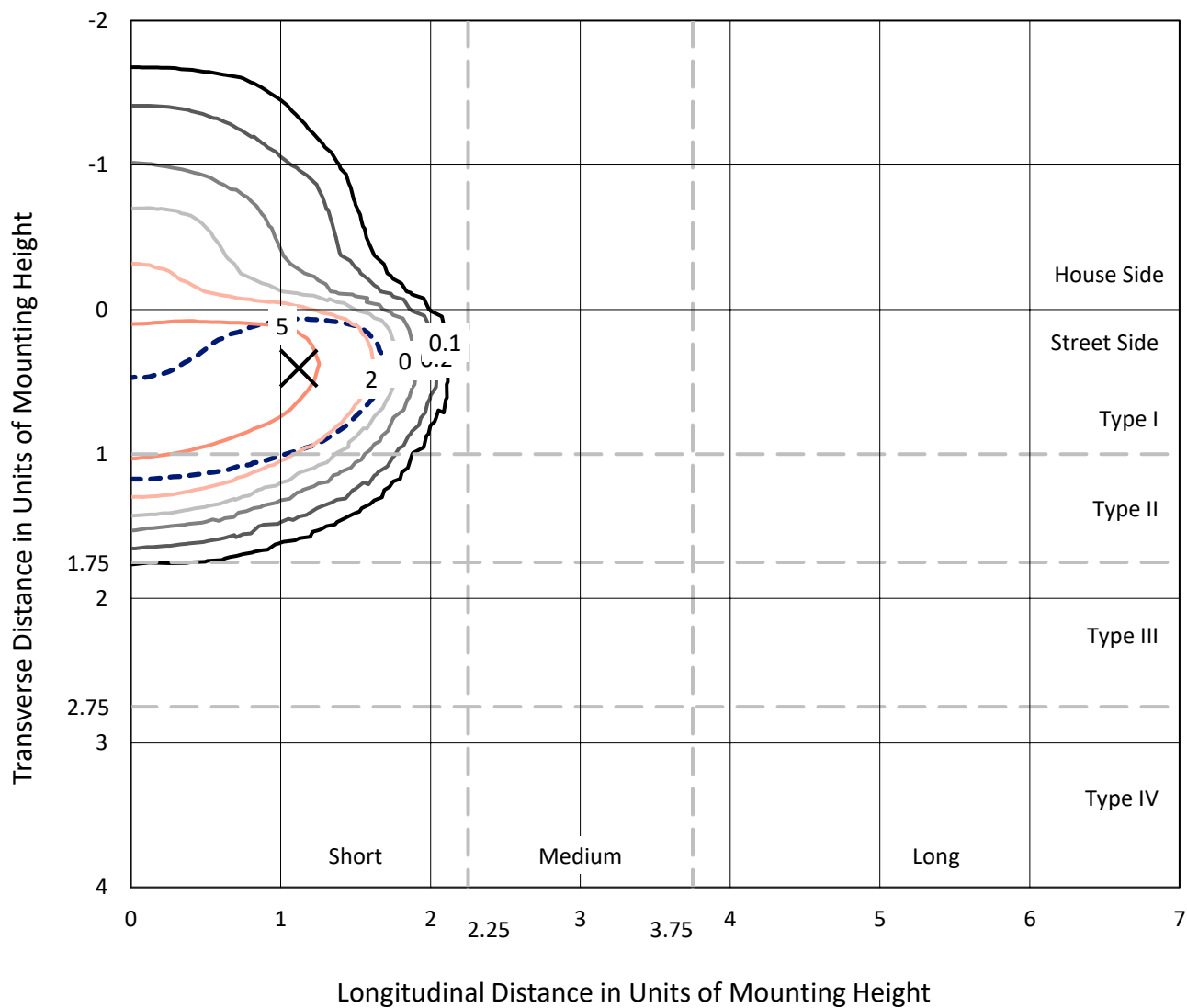
REPORT NUMBER: P530217

CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



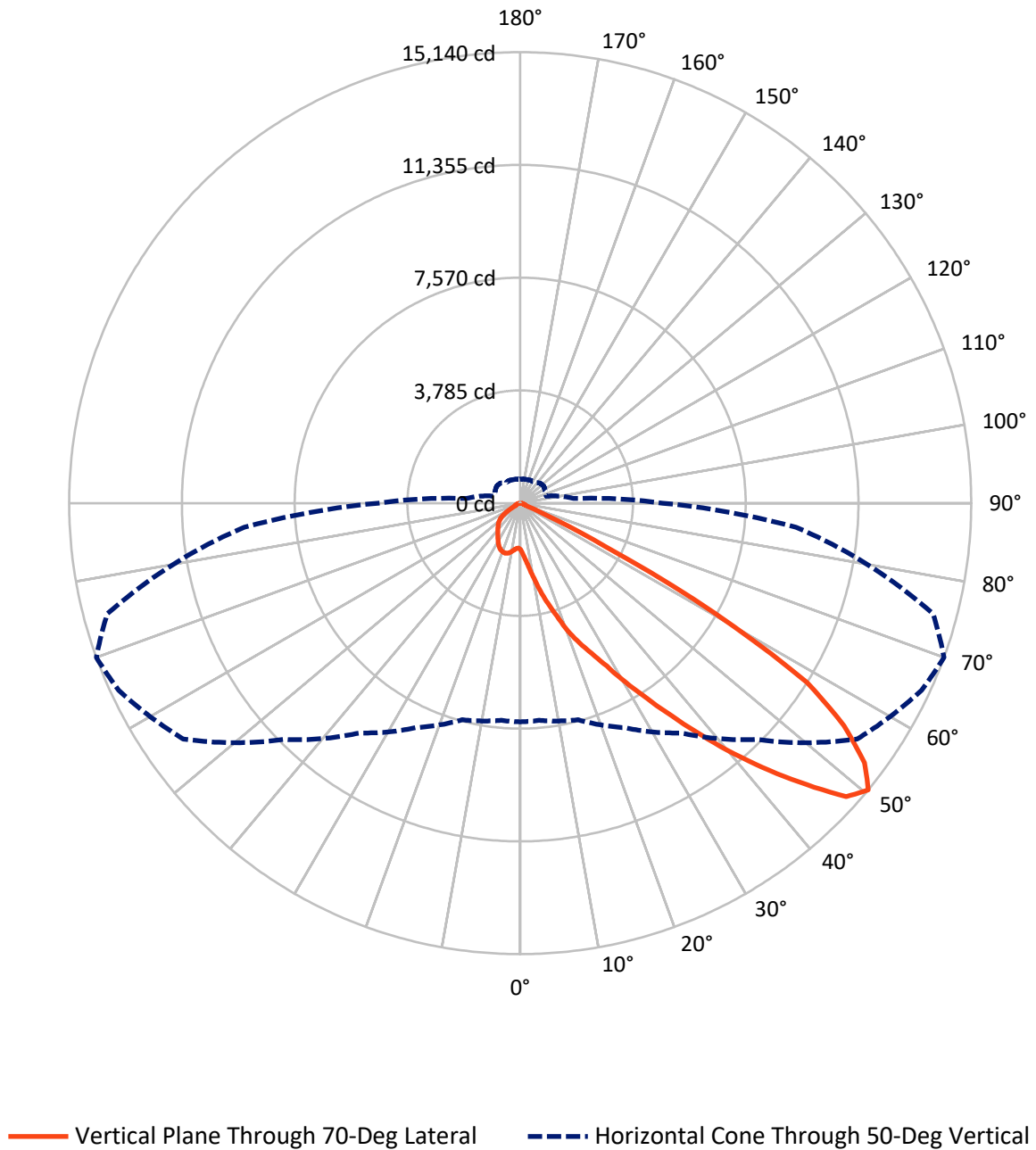
Based on 25 foot mounting height. Maximum calculated value = 8.9 fc

Type I - Short - N/A

REPORT NUMBER: P530217

CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P530217

CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

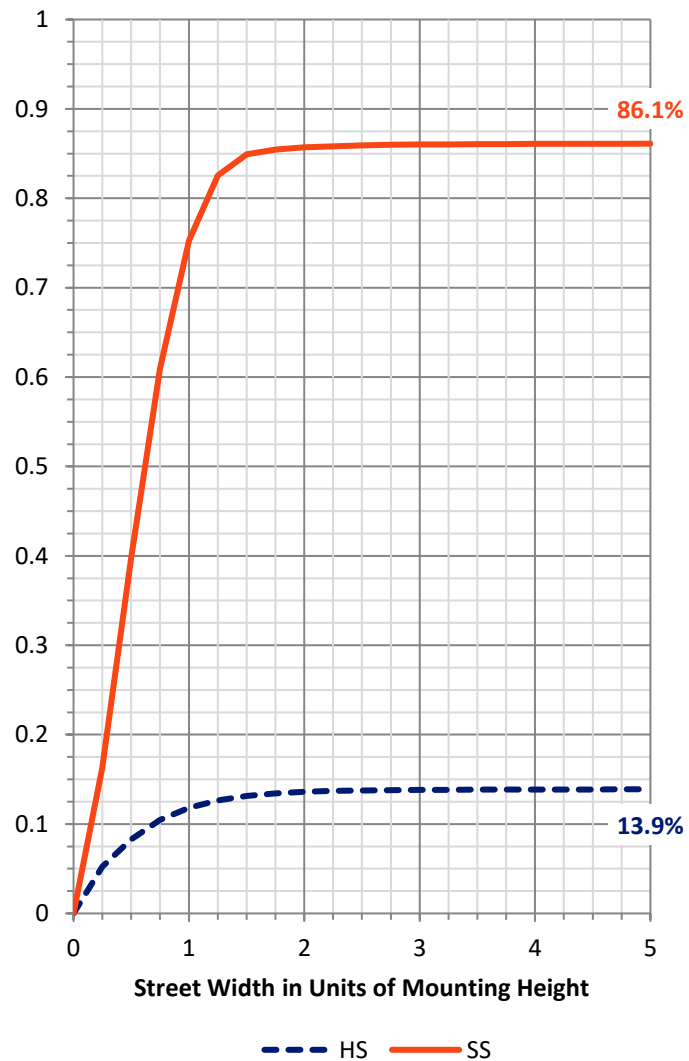
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.5	0.0	2091.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12884.5	0.0	12884.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	14976.0	0.0	14976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.3
10°-20°	872.5	5.8
20°-30°	1830.5	12.2
30°-40°	3155.1	21.1
40°-50°	4611.1	30.8
50°-60°	3591.3	24.0
60°-70°	608.5	4.1
70°-80°	83.6	0.6
80°-90°	21.7	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°	14976.0	100.0
0°-180°	14976.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530217

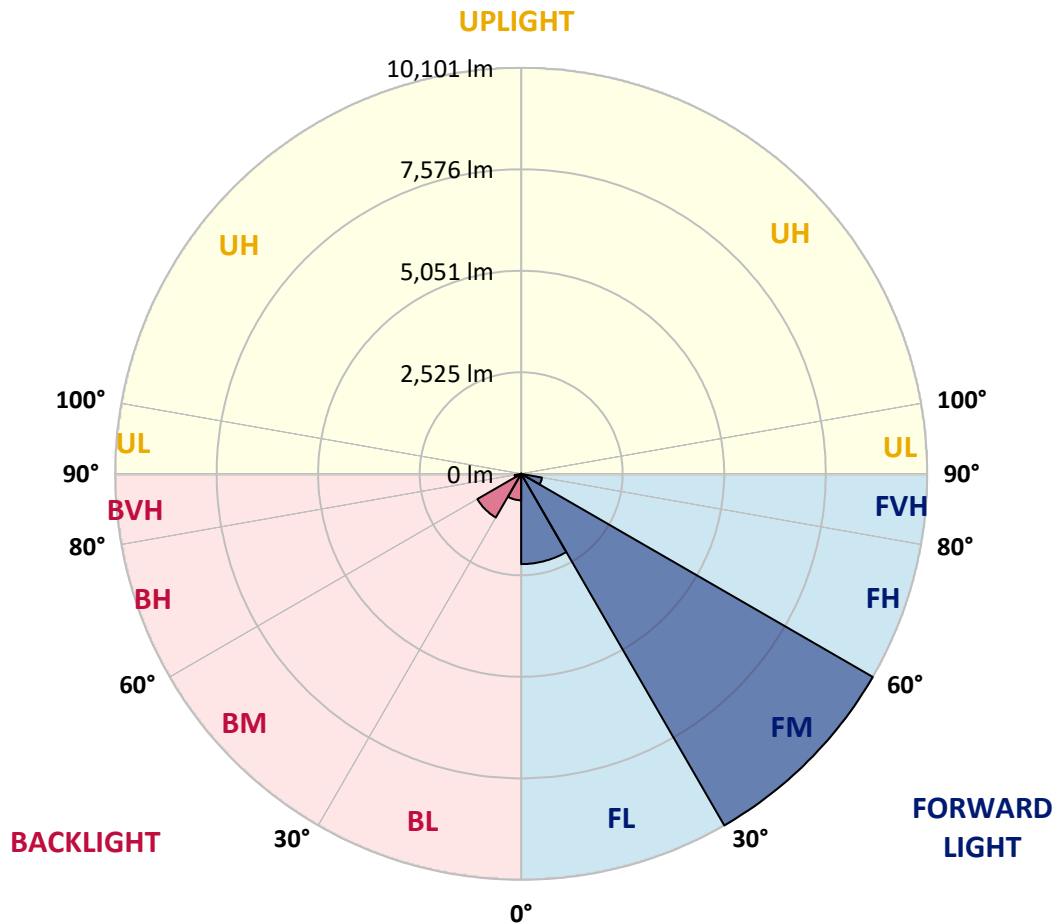
CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2246.6	15.0			
FM	(30°-60°)	10101.1	67.4			
FH	(60°-80°)	526.9	3.5			G0/660
FVH	(80°-90°)	10.0	0.1			G1/100
BL	(0°-30°)	658.1	4.4	B2/1000		
BM	(30°-60°)	1256.5	8.4	B2/2500		
BH	(60°-80°)	165.2	1.1	B1/500		G1/500
BVH	(80°-90°)	11.6	0.1			G1/100
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: P530217

CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	2031.4	2016.6	1984.6	1925.5	1900.9	1841.8	1807.3	1740.8	1699.0	1652.2	1600.5
5°	2861.1	2784.8	2738.0	2671.5	2477.0	2356.4	2156.9	1987.0	1908.2	1822.1	1703.9
7.5°	3718.0	3668.8	3604.7	3461.9	3329.0	3077.8	2735.6	2361.3	2201.3	2053.5	1819.6
10°	4427.1	4289.2	4281.9	4176.0	4030.7	3730.3	3319.1	2853.7	2568.1	2351.5	1984.6
12.5°	4922.0	4796.5	4853.1	4840.8	4705.4	4429.6	3954.4	3338.8	3040.9	2703.6	2154.5
15°	5372.6	5320.9	5303.7	5288.9	5234.7	5030.4	4604.4	3929.8	3498.9	3092.6	2346.5
17.5°	5813.4	5680.4	5744.4	5756.7	5751.8	5567.2	5168.3	4491.1	3983.9	3503.8	2548.4
20°	6204.9	6217.2	6131.0	6113.8	6099.0	6091.6	5702.6	5047.6	4579.8	3934.7	2811.9
22.5°	6707.2	6621.0	6697.3	6648.1	6552.1	6493.0	6195.0	5540.1	5096.9	4454.2	3080.3
25°	7300.6	7369.5	7189.8	7170.1	7064.2	6859.8	6591.4	6091.6	5594.2	4936.8	3370.8
27.5°	8031.9	7911.2	7864.4	7756.1	7564.0	7477.9	7162.7	6660.4	6195.0	5444.0	3651.5
30°	8659.7	8627.7	8393.8	8265.8	8098.3	8095.9	7655.1	7431.1	6978.0	6239.3	4038.1
32.5°	9171.9	9031.5	8945.4	8856.7	8721.3	8758.2	8386.4	8268.2	7812.7	6978.0	4493.6
35°	9514.1	9413.2	9361.5	9226.1	9186.7	9351.6	9196.5	9147.3	8773.0	8017.1	5027.9
37.5°	9622.5	9654.5	9644.6	9474.7	9558.5	10004.1	10203.6	10075.5	9878.6	9112.8	5606.5
40°	9718.5	9740.7	9691.4	9890.9	10129.7	10636.9	11358.4	11146.6	11072.7	10223.3	6411.7
42.5°	9772.7	9755.4	9755.4	10100.2	10462.1	11481.5	12473.8	12333.4	12276.8	11405.2	7342.4
45°	9538.8	9371.3	9551.1	10018.9	10747.7	11897.6	13365.1	13559.6	13478.4	12811.1	8430.8
47.5°	8664.7	8768.1	8869.0	9494.4	10400.6	11769.6	13911.7	14574.1	14724.3	13993.0	9144.8
50°	7342.4	7320.3	7529.6	8317.5	9418.1	11218.0	13805.8	14867.1	15140.4	14347.5	9295.0
52.5°	5340.6	5503.1	5729.7	6512.7	7817.6	9789.9	12439.3	14111.2	14475.6	13911.7	9196.5
55°	3109.8	2930.1	3439.8	4102.1	5333.2	7384.3	10516.3	12508.2	13182.9	13118.9	8699.1
57.5°	1245.9	1206.5	1381.3	1861.5	2782.3	4577.3	7647.8	10277.4	11358.4	12015.8	7645.3
60°	546.6	534.3	627.9	758.4	1137.6	2110.1	4183.4	6392.0	7519.7	8396.3	5261.8
62.5°	394.0	389.0	435.8	482.6	600.8	918.4	1758.0	2575.5	3210.8	3878.0	2356.4
65°	317.6	329.9	362.0	386.6	443.2	509.7	620.5	716.5	879.0	911.0	519.5
67.5°	258.5	268.4	297.9	325.0	334.9	275.8	285.6	251.1	251.1	224.1	179.7
70°	189.6	192.1	226.5	258.5	206.8	110.8	194.5	194.5	174.8	167.4	152.7
72.5°	140.3	142.8	169.9	160.0	81.3	68.9	142.8	157.6	142.8	135.4	123.1
75°	103.4	105.9	88.6	36.9	34.5	44.3	83.7	108.3	103.4	101.0	93.6
77.5°	19.7	14.8	12.3	17.2	24.6	36.9	54.2	66.5	68.9	73.9	68.9
80°	2.5	2.5	7.4	14.8	27.1	39.4	56.6	64.0	66.5	68.9	64.0
82.5°	0.0	2.5	7.4	14.8	27.1	36.9	49.2	56.6	61.6	64.0	61.6
85°	0.0	2.5	4.9	12.3	22.2	27.1	24.6	17.2	14.8	17.2	12.3
87.5°	0.0	0.0	2.5	2.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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: P530217

CATALOG NUMBER: GALN-SA5B-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	1570.9	1561.1	1526.6	1489.7	1457.7	1472.4	1457.7	1445.3	1450.3	1445.3	1440.4
5°	1657.1	1612.8	1538.9	1506.9	1479.8	1477.4	1470.0	1467.5	1470.0	1470.0	1447.8
7.5°	1738.3	1666.9	1588.2	1553.7	1521.7	1524.1	1506.9	1506.9	1504.4	1492.1	1487.2
10°	1861.5	1765.4	1664.5	1602.9	1563.5	1556.1	1538.9	1521.7	1521.7	1521.7	1497.0
12.5°	1996.9	1876.2	1738.3	1666.9	1620.2	1583.2	1556.1	1551.2	1524.1	1519.2	1506.9
15°	2115.1	1962.4	1787.6	1689.1	1630.0	1580.8	1538.9	1511.8	1499.5	1492.1	1482.3
17.5°	2230.8	2036.3	1814.7	1689.1	1625.1	1568.5	1524.1	1499.5	1470.0	1474.9	1455.2
20°	2385.9	2115.1	1822.1	1657.1	1578.3	1524.1	1465.0	1452.7	1435.5	1420.7	1425.6
22.5°	2536.1	2171.7	1799.9	1617.7	1504.4	1440.4	1410.9	1396.1	1388.7	1376.4	1359.2
25°	2671.5	2233.3	1765.4	1546.3	1425.6	1378.9	1351.8	1349.3	1332.1	1332.1	1300.1
27.5°	2809.4	2255.4	1706.3	1462.6	1356.7	1329.6	1317.3	1312.4	1305.0	1287.8	1265.6
30°	2967.0	2262.8	1620.2	1376.4	1295.1	1265.6	1282.8	1295.1	1263.1	1231.1	1241.0
32.5°	3097.5	2245.6	1516.7	1295.1	1250.8	1236.1	1270.5	1282.8	1245.9	1211.4	1194.2
35°	3255.1	2203.7	1415.8	1231.1	1206.5	1236.1	1265.6	1265.6	1191.7	1149.9	1140.0
37.5°	3493.9	2156.9	1322.2	1177.0	1159.7	1221.3	1260.7	1233.6	1117.9	1066.2	1053.8
40°	3750.0	2127.4	1231.1	1122.8	1135.1	1196.7	1218.8	1135.1	1016.9	984.9	975.1
42.5°	4121.8	2068.3	1149.9	1076.0	1112.9	1162.2	1162.2	1012.0	967.7	950.4	948.0
45°	4584.7	2026.4	1078.5	1036.6	1080.9	1093.2	1053.8	948.0	916.0	911.0	913.5
47.5°	4811.2	1945.2	1004.6	989.8	1021.8	1024.3	920.9	896.3	869.2	861.8	856.9
50°	4776.8	1799.9	908.6	928.3	972.6	948.0	839.6	844.6	819.9	817.5	805.2
52.5°	4535.5	1570.9	812.5	859.3	908.6	837.2	773.1	768.2	768.2	736.2	723.9
55°	4020.9	1265.6	696.8	755.9	815.0	704.2	687.0	682.0	669.7	640.2	632.8
57.5°	3183.7	928.3	524.5	588.5	691.9	598.3	595.9	573.7	541.7	519.5	519.5
60°	1893.5	534.3	329.9	359.5	458.0	485.1	539.2	529.4	475.2	440.7	430.9
62.5°	864.3	275.8	209.3	214.2	246.2	315.2	423.5	490.0	413.7	354.6	349.6
65°	290.5	204.4	172.4	165.0	169.9	189.6	253.6	347.2	329.9	273.3	263.5
67.5°	177.3	182.2	162.5	150.2	150.2	147.7	145.3	157.6	194.5	189.6	192.1
70°	152.7	167.4	150.2	135.4	130.5	123.1	103.4	86.2	73.9	86.2	91.1
72.5°	123.1	133.0	128.0	115.7	103.4	93.6	73.9	56.6	41.9	36.9	36.9
75°	91.1	98.5	103.4	88.6	78.8	66.5	54.2	36.9	22.2	14.8	14.8
77.5°	66.5	73.9	76.3	68.9	59.1	46.8	34.5	24.6	12.3	4.9	4.9
80°	56.6	66.5	73.9	68.9	61.6	44.3	32.0	17.2	9.8	2.5	2.5
82.5°	54.2	66.5	73.9	66.5	59.1	41.9	32.0	19.7	7.4	2.5	2.5
85°	12.3	17.2	22.2	27.1	32.0	32.0	24.6	14.8	7.4	2.5	2.5
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	2.5	2.5	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)