

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: P528800

Luminaire Tested: **GALN-SA3D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16559 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 184
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

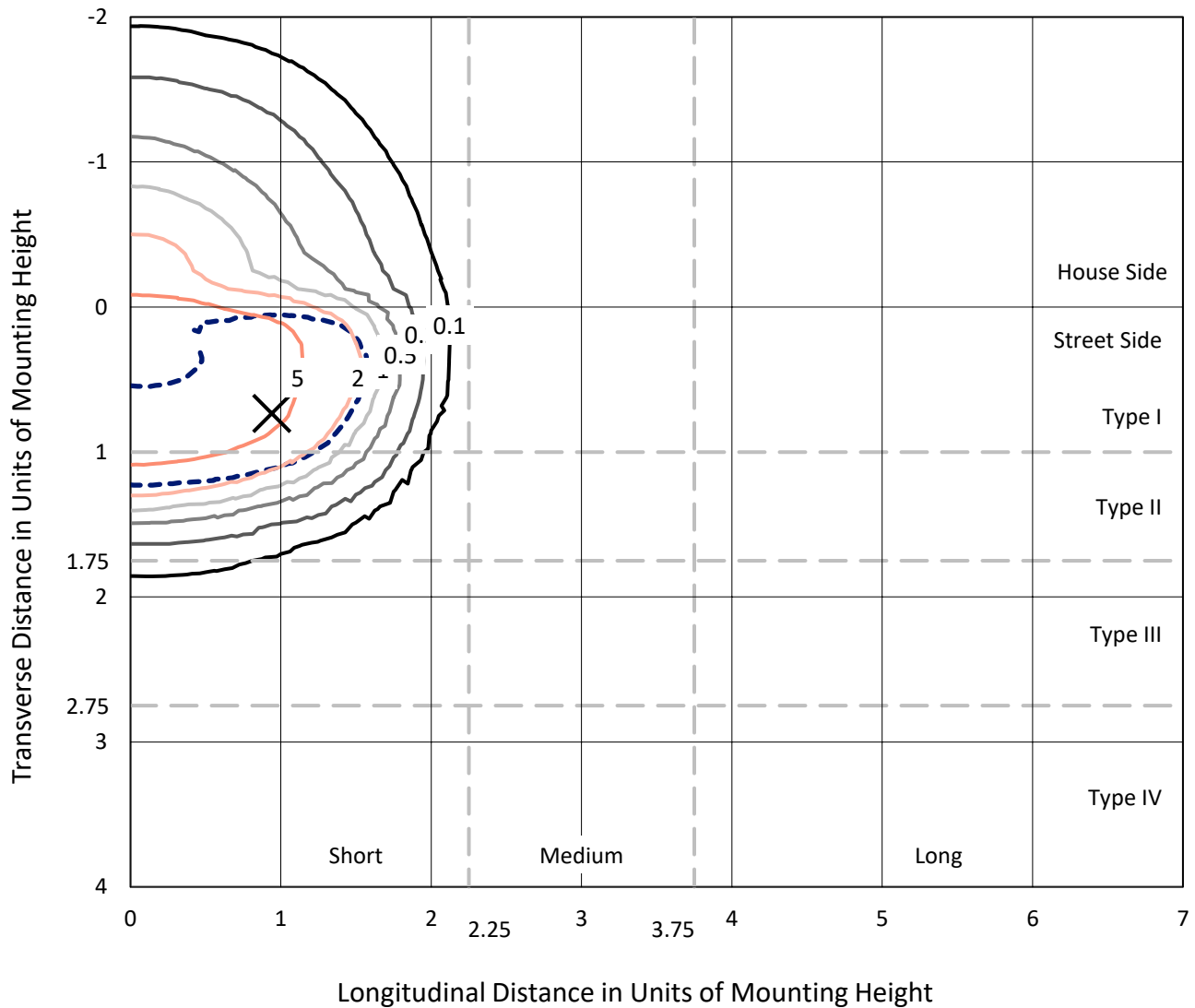


REPORT NUMBER: P528800

CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

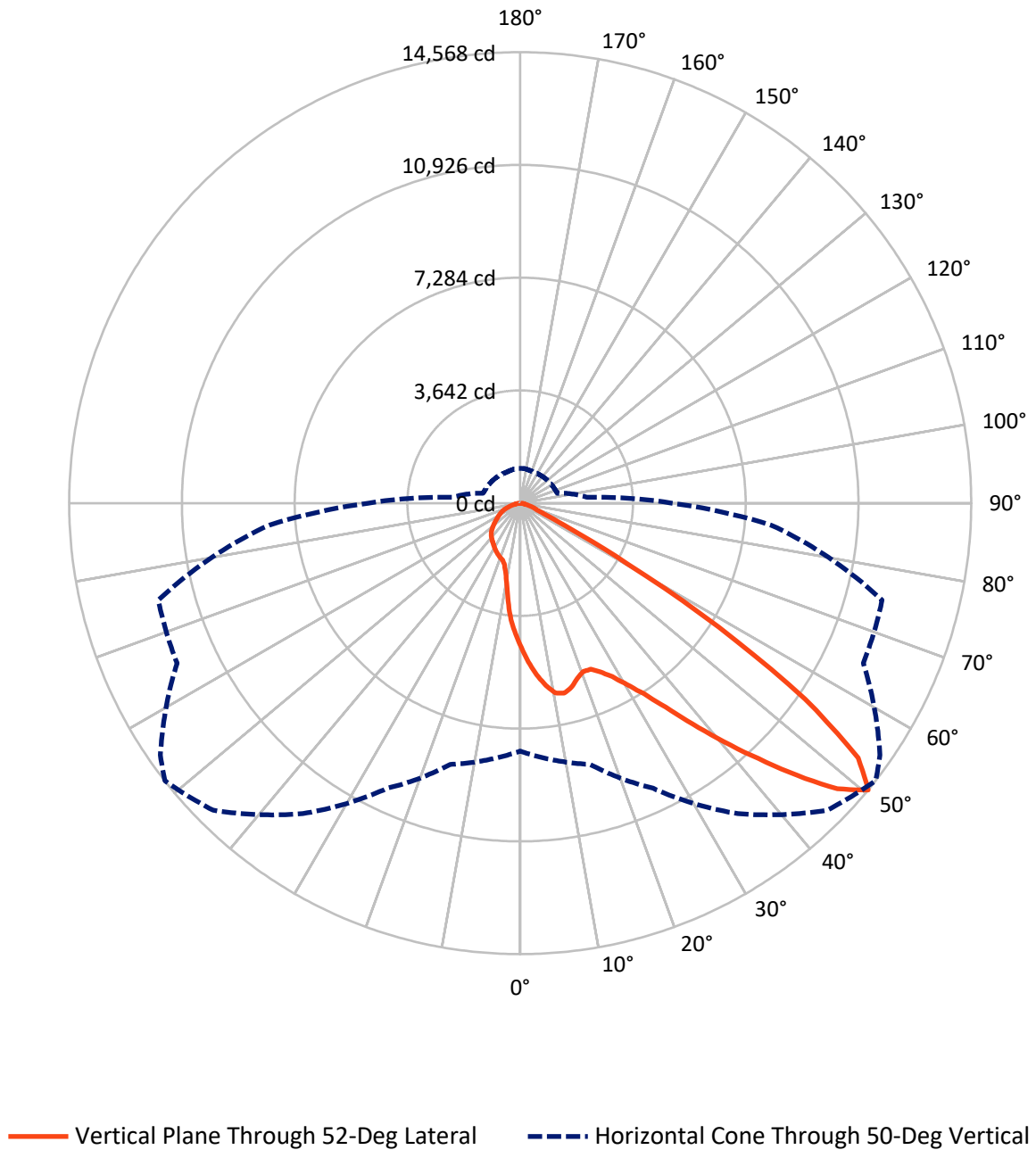
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

REPORT NUMBER: P528800
CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528800

CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

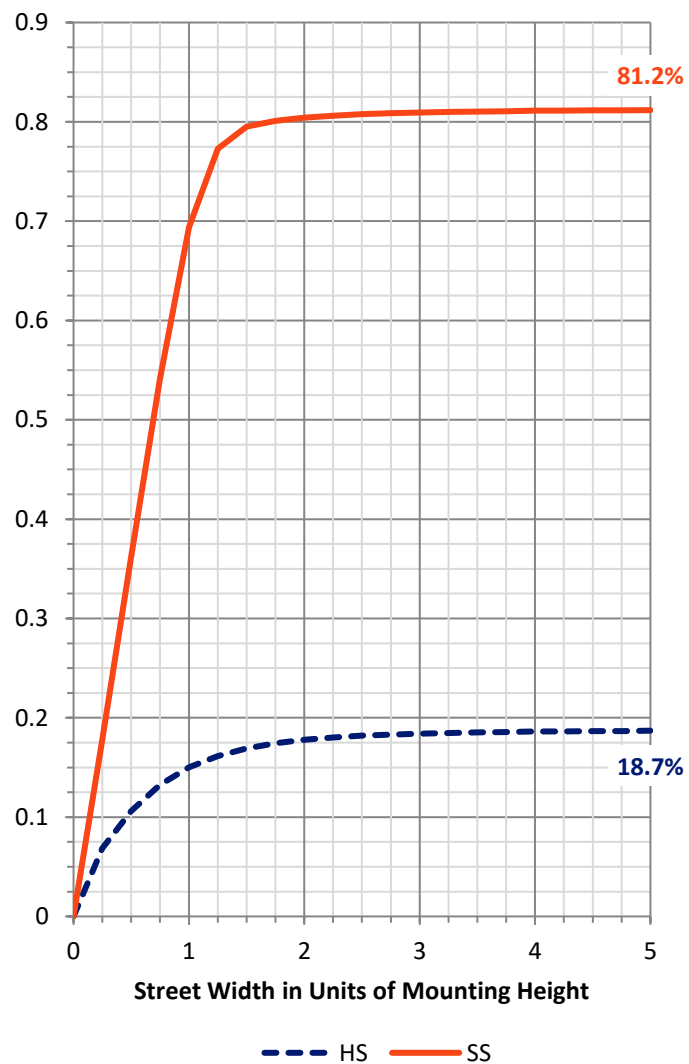
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.7	0.0	3112.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13446.3	0.0	13446.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	16559.0	0.0	16559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.2	2.6
10°-20°	1153.1	7.0
20°-30°	1942.4	11.7
30°-40°	3259.4	19.7
40°-50°	4986.1	30.1
50°-60°	3635.3	22.0
60°-70°	809.0	4.9
70°-80°	291.8	1.8
80°-90°	51.7	0.3
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°	16559.0	100.0
0°-180°	16559.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528800

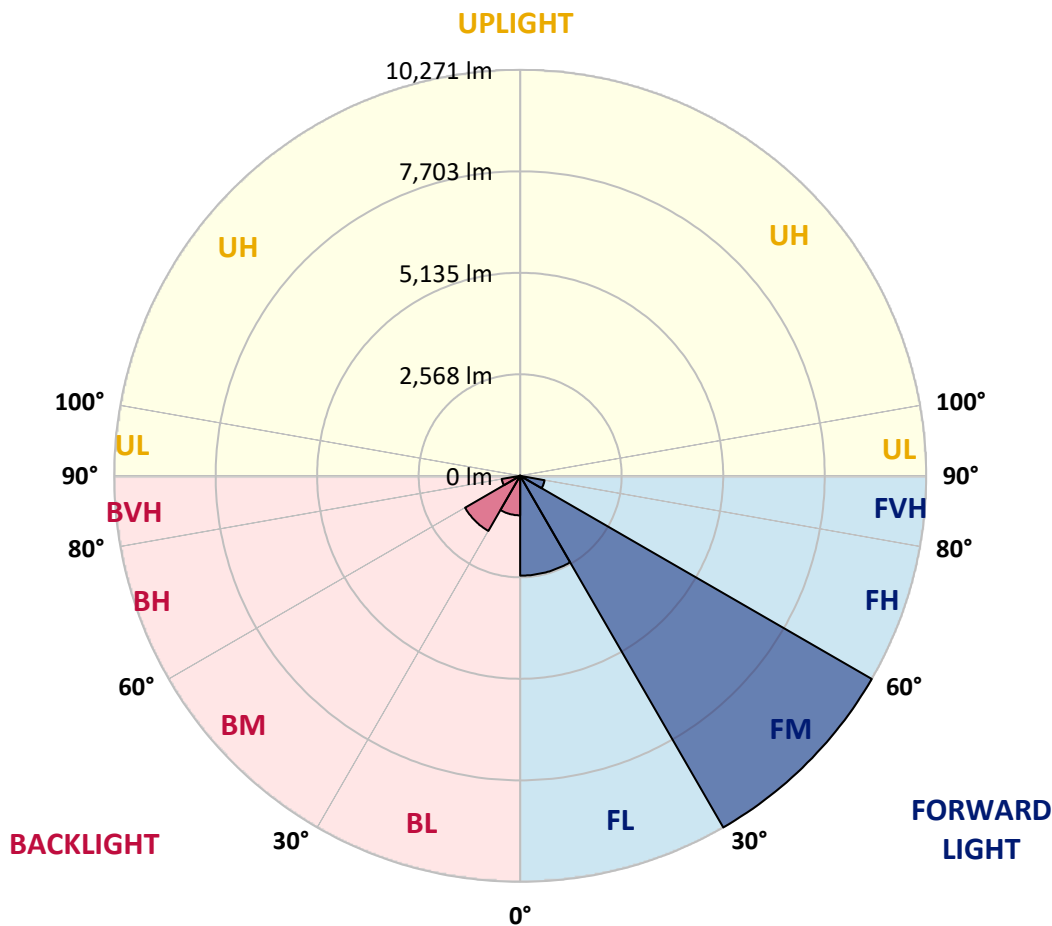
CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2525.8	15.3			
FM	(30°-60°)	10270.7	62.0			
FH	(60°-80°)	626.6	3.8			G0/660
FVH	(80°-90°)	23.1	0.1			G1/100
BL	(0°-30°)	999.9	6.0	B2/1000		
BM	(30°-60°)	1610.1	9.7	B2/2500		
BH	(60°-80°)	474.2	2.9	B1/500		G1/500
BVH	(80°-90°)	28.5	0.2			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 II Short



REPORT NUMBER: P528800

CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7
2.5°	5495.9	5390.1	5402.1	5326.3	5244.4	5220.5	5136.7	5056.8	4997.0	4869.3	4751.5
5°	6006.8	5974.8	5926.9	5867.1	5805.2	5653.5	5567.7	5467.9	5248.4	5050.9	4855.3
7.5°	6080.6	6074.6	6100.5	6100.5	6122.5	6064.6	5942.9	5873.0	5639.6	5318.3	4955.1
10°	5561.7	5579.7	5705.4	5869.1	6096.6	6254.2	6234.3	6216.3	5960.9	5521.8	5072.8
12.5°	5148.6	5108.7	5182.6	5322.3	5663.5	6044.7	6302.1	6304.1	6238.2	5847.1	5158.6
15°	4915.2	4943.1	4963.1	5028.9	5286.3	5727.4	6180.4	6314.1	6603.4	6076.6	5294.3
17.5°	5064.8	4971.0	4967.0	4983.0	5114.7	5446.0	5954.9	6184.4	6803.0	6371.9	5462.0
20°	5260.4	5258.4	5202.5	5182.6	5180.6	5475.9	5807.2	6118.5	6908.8	6755.1	5631.6
22.5°	5603.6	5603.6	5511.8	5467.9	5374.1	5615.6	5827.2	6038.7	7084.4	7018.5	5713.4
25°	6178.4	6084.6	5926.9	5819.2	5765.3	5851.1	6038.7	6228.3	7238.0	7297.9	5883.0
27.5°	6709.2	6561.5	6483.7	6298.1	6226.3	6176.4	6348.0	6539.6	7417.6	7732.9	5974.8
30°	7311.9	7285.9	7146.2	6906.8	6729.2	6637.4	6795.0	6984.6	7746.9	8178.0	6186.4
32.5°	8389.5	8154.0	7964.4	7671.1	7381.7	7186.2	7341.8	7467.5	8293.7	8642.9	6417.8
35°	9552.9	9477.1	9149.8	8621.0	8178.0	8002.4	8094.2	8187.9	8930.3	9353.4	6807.0
37.5°	10696.4	10592.6	10323.2	9878.2	9339.4	8982.2	9048.0	9157.8	9644.7	10311.3	7281.9
40°	11518.6	11390.9	11255.2	11189.3	10654.5	10165.6	10127.7	10155.6	10610.6	11209.3	7808.8
42.5°	11578.5	11736.1	11778.0	12043.4	11917.7	11516.6	11283.1	11289.1	11532.6	12097.3	8341.6
45°	11452.7	11307.1	11616.4	12340.8	12755.9	12943.5	12550.3	12500.4	12103.3	12612.2	8607.0
47.5°	10133.7	10173.6	10696.4	11841.9	13041.2	13879.4	13787.6	13622.0	12408.6	12594.2	8565.1
50°	8010.3	8251.8	8736.7	10163.6	12243.0	14027.1	14567.9	14184.7	12227.0	12099.3	8138.1
52.5°	5334.2	5434.0	5753.3	7595.3	9844.3	12538.4	13669.9	13757.7	12059.4	11450.8	7597.2
55°	2374.8	2366.8	2815.8	3967.3	6176.4	9541.0	11169.4	11704.2	11414.8	10790.2	7070.4
57.5°	1005.8	1039.7	1223.3	1714.2	3037.3	5757.3	7567.3	8036.3	8778.6	8860.5	5424.0
60°	680.5	684.5	734.4	858.1	1271.2	2704.0	3969.2	4532.0	5062.8	5026.9	2877.7
62.5°	534.8	548.8	586.7	636.6	754.3	1227.3	1776.1	2089.4	2123.3	1786.1	1091.6
65°	457.0	459.0	496.9	538.8	590.7	714.4	856.1	872.1	882.1	850.1	802.2
67.5°	377.2	381.2	411.1	459.0	506.9	546.8	586.7	606.7	652.6	742.4	730.4
70°	299.3	305.3	331.3	371.2	415.1	439.0	488.9	506.9	548.8	618.6	646.6
72.5°	227.5	229.5	251.4	279.4	319.3	343.2	385.2	405.1	433.0	492.9	518.9
75°	163.6	169.6	185.6	199.6	205.5	221.5	261.4	283.4	323.3	349.2	351.2
77.5°	85.8	89.8	93.8	93.8	113.7	143.7	169.6	181.6	209.5	229.5	219.5
80°	33.9	35.9	45.9	61.9	79.8	103.8	121.7	127.7	151.7	163.6	169.6
82.5°	20.0	22.0	29.9	43.9	57.9	73.8	87.8	93.8	109.8	123.7	127.7
85°	10.0	12.0	18.0	27.9	37.9	45.9	43.9	41.9	41.9	39.9	41.9
87.5°	4.0	4.0	6.0	6.0	6.0	8.0	10.0	10.0	10.0	12.0	12.0
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: P528800

CATALOG NUMBER: GALN-SA3D-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7	4667.7
2.5°	4673.7	4593.9	4520.0	4384.3	4236.7	4194.8	4023.1	3961.3	3917.4	3865.5	3849.5
5°	4697.6	4591.9	4354.4	4081.0	3863.5	3584.1	3400.5	3202.9	3059.3	3023.3	3013.4
7.5°	4747.5	4565.9	4156.8	3743.7	3298.7	2919.6	2630.2	2474.5	2336.8	2328.9	2314.9
10°	4803.4	4488.1	3941.3	3292.7	2724.0	2372.8	2199.2	2131.3	2097.4	2089.4	2085.4
12.5°	4849.3	4472.1	3699.8	2853.7	2316.9	2105.4	2053.5	2047.5	2061.5	2065.4	2073.4
15°	4869.3	4408.3	3408.5	2460.6	2063.5	1985.6	2007.6	2031.5	2041.5	2067.4	2047.5
17.5°	4907.2	4326.5	3049.3	2149.3	1921.8	1935.7	1973.6	2001.6	2017.6	2035.5	2009.6
20°	4927.1	4252.6	2712.0	1963.7	1871.9	1897.8	1949.7	1971.7	1991.6	1999.6	1969.7
22.5°	4909.2	4101.0	2414.7	1814.0	1824.0	1857.9	1903.8	1927.7	1915.8	1883.8	1865.9
25°	4861.3	3887.4	2105.4	1718.2	1756.1	1816.0	1851.9	1834.0	1812.0	1794.0	1788.1
27.5°	4859.3	3626.0	1881.9	1630.4	1698.3	1780.1	1768.1	1752.1	1762.1	1748.1	1732.2
30°	4869.3	3372.6	1698.3	1580.5	1656.3	1696.3	1710.2	1694.3	1706.2	1680.3	1688.3
32.5°	4817.4	3125.1	1578.5	1522.6	1606.5	1604.5	1650.4	1662.3	1634.4	1580.5	1588.5
35°	4839.3	2925.5	1476.7	1496.7	1550.6	1550.6	1586.5	1572.5	1498.7	1466.8	1474.7
37.5°	4991.0	2730.0	1426.9	1460.8	1496.7	1512.7	1500.7	1440.8	1422.9	1422.9	1426.9
40°	5134.7	2562.3	1396.9	1452.8	1446.8	1456.8	1369.0	1375.0	1375.0	1377.0	1367.0
42.5°	5262.4	2448.6	1373.0	1404.9	1414.9	1363.0	1309.1	1303.1	1317.1	1315.1	1307.1
45°	5308.3	2354.8	1339.0	1351.0	1359.0	1273.2	1247.2	1235.3	1251.2	1257.2	1265.2
47.5°	5132.7	2277.0	1301.1	1277.2	1261.2	1205.3	1171.4	1149.5	1169.4	1203.3	1211.3
50°	4907.2	2175.2	1241.3	1195.4	1161.4	1137.5	1113.5	1091.6	1105.6	1129.5	1123.5
52.5°	4573.9	2015.6	1165.4	1117.5	1059.7	1065.7	1043.7	1031.7	1039.7	1039.7	1033.7
55°	4099.0	1656.3	1037.7	1003.8	955.9	971.9	975.8	959.9	943.9	957.9	945.9
57.5°	2797.8	1169.4	926.0	926.0	878.1	900.0	898.0	860.1	822.2	826.2	818.2
60°	1618.4	931.9	854.1	846.1	796.2	814.2	818.2	792.3	734.4	738.4	730.4
62.5°	920.0	796.2	746.4	734.4	724.4	740.4	740.4	706.4	656.6	660.5	652.6
65°	782.3	738.4	666.5	664.5	660.5	664.5	648.6	612.6	568.7	550.8	552.8
67.5°	710.4	682.5	612.6	594.7	582.7	580.7	550.8	516.9	496.9	480.9	478.9
70°	622.6	600.7	548.8	524.8	512.9	484.9	455.0	433.0	405.1	397.1	405.1
72.5°	492.9	490.9	471.0	445.0	419.1	397.1	371.2	341.2	315.3	309.3	295.3
75°	341.2	345.2	349.2	345.2	323.3	295.3	265.4	241.5	209.5	191.6	187.6
77.5°	223.5	229.5	235.5	227.5	213.5	187.6	167.6	137.7	113.7	99.8	97.8
80°	163.6	171.6	175.6	169.6	153.7	133.7	111.8	87.8	69.8	57.9	57.9
82.5°	125.7	133.7	137.7	127.7	111.8	95.8	79.8	61.9	47.9	37.9	35.9
85°	43.9	41.9	49.9	51.9	61.9	57.9	47.9	35.9	27.9	20.0	18.0
87.5°	12.0	12.0	14.0	14.0	12.0	10.0	10.0	10.0	8.0	6.0	6.0
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)