

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: P530957

Luminaire Tested: **GALN-SA6B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21051 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

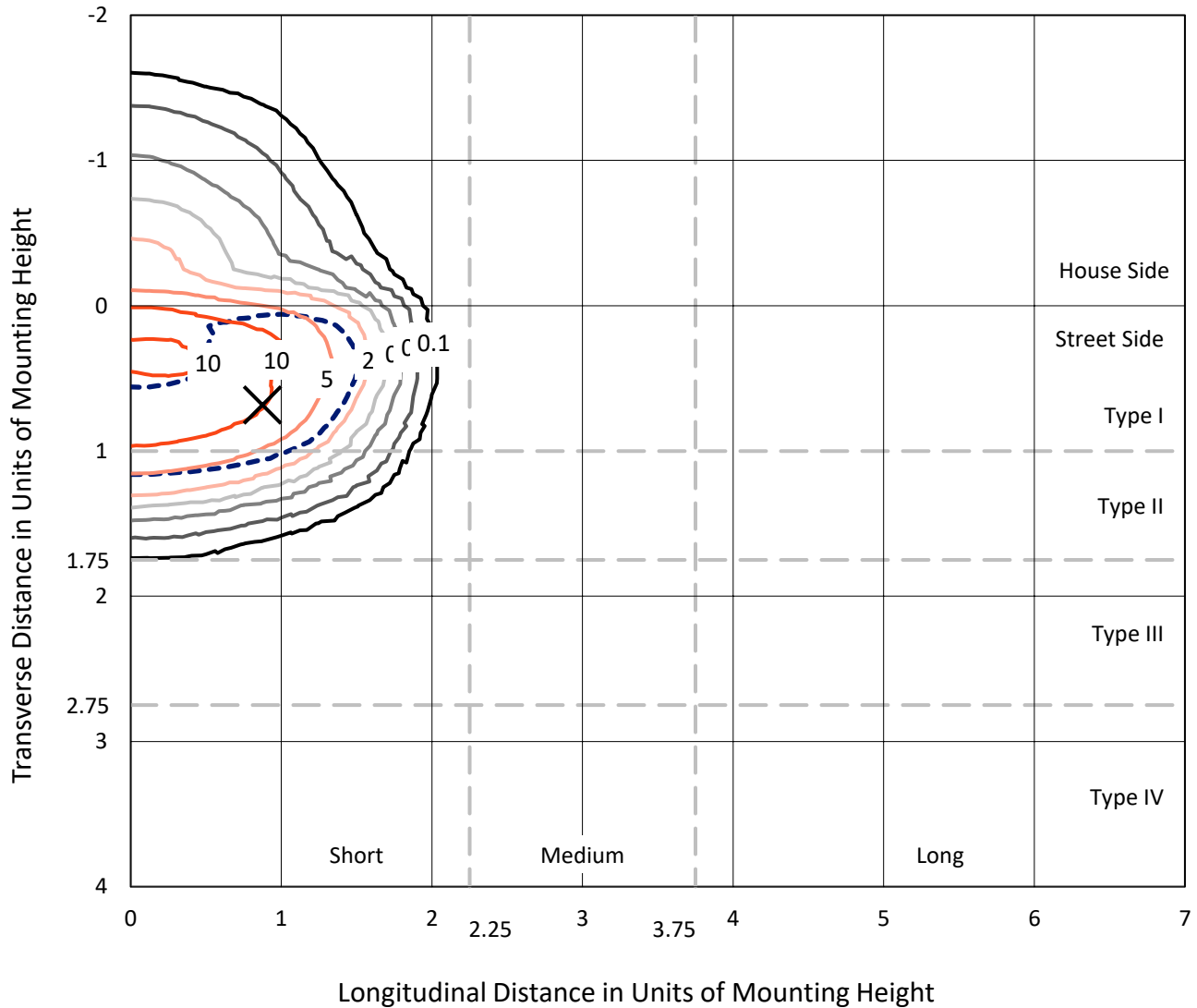
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

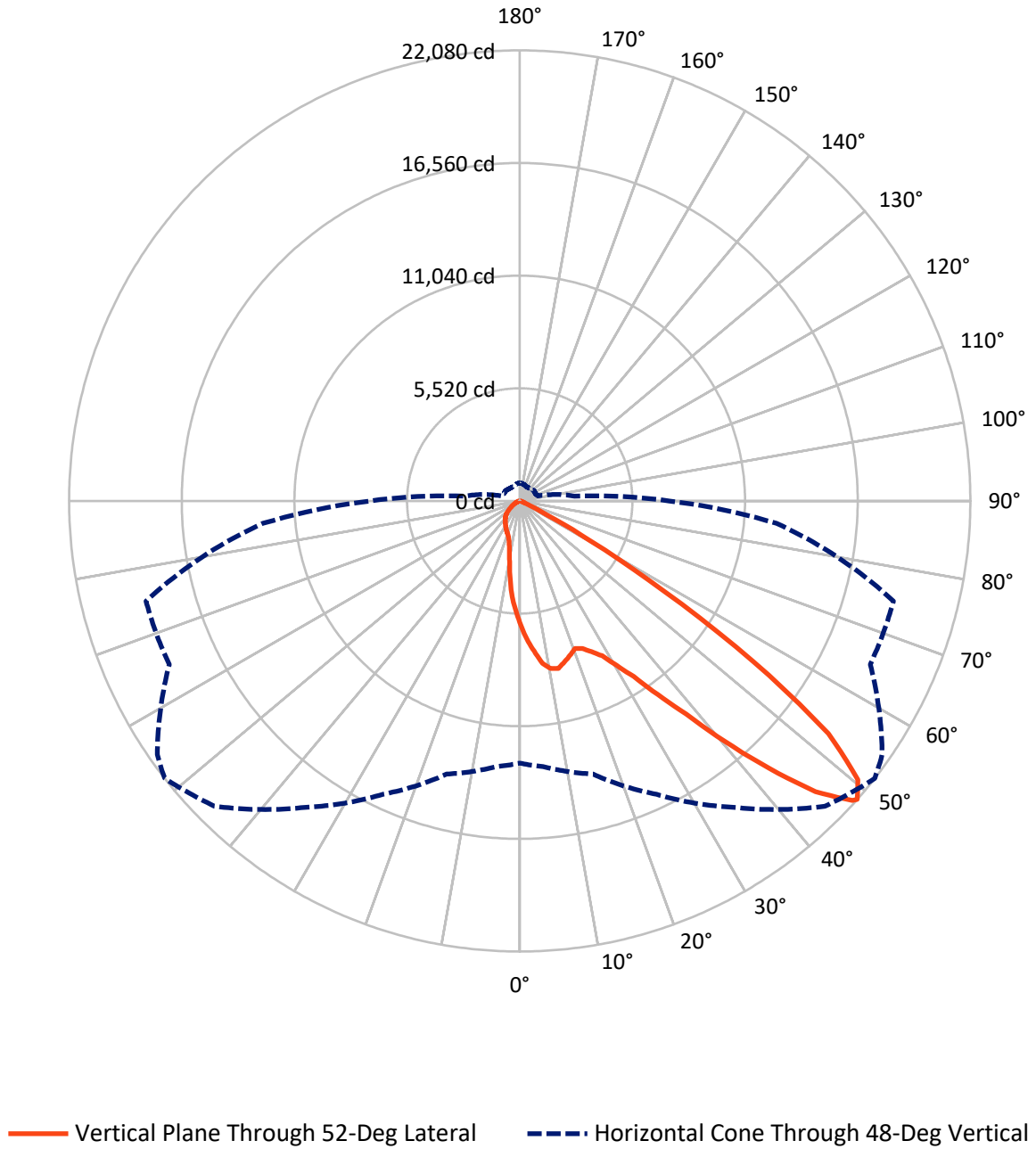
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA6B-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



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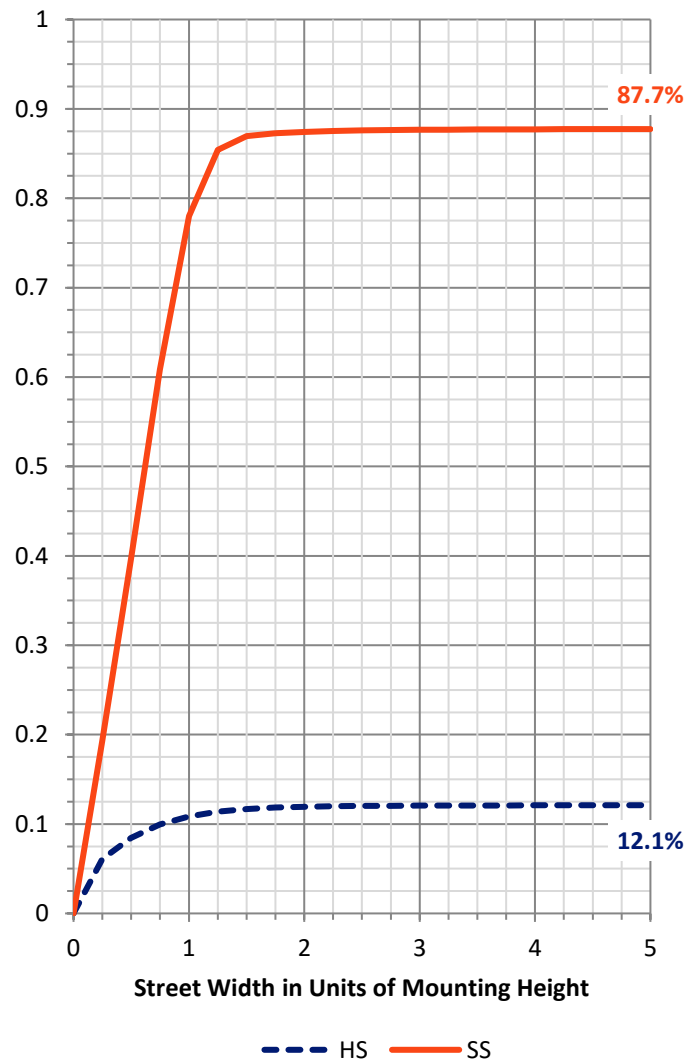
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2563.1	0.0	2563.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18487.9	0.0	18487.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	21051.0	0.0	21051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.4	2.6
10°-20°	1454.1	6.9
20°-30°	2482.8	11.8
30°-40°	4572.0	21.7
40°-50°	7100.4	33.7
50°-60°	4273.2	20.3
60°-70°	494.2	2.3
70°-80°	95.7	0.5
80°-90°	22.1	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°	21051.0	100.0
0°-180°	21051.0	100.0

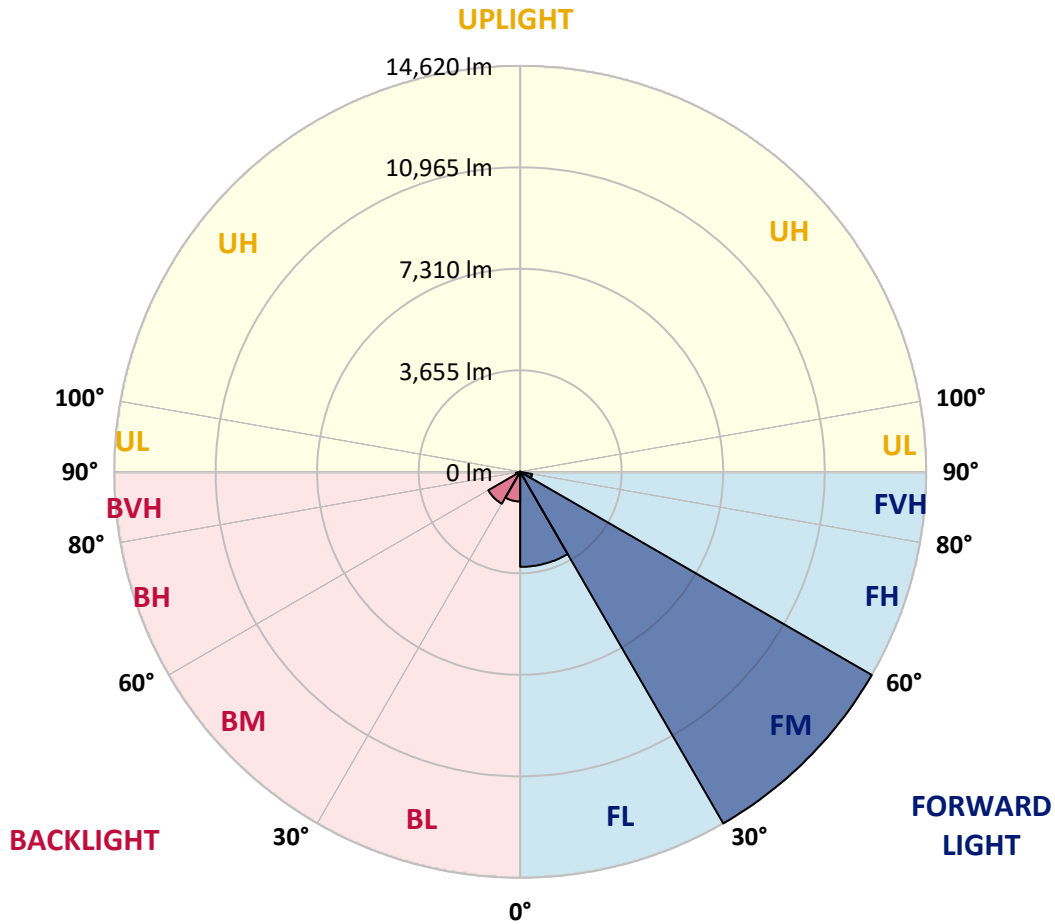


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3422.6	16.3			
FM (30°-60°)	14619.5	69.4			
FH (60°-80°)	435.2	2.1			G0/660
FVH (80°-90°)	10.5	0.1			G1/100
BL (0°-30°)	1070.7	5.1	B3/2500		
BM (30°-60°)	1326.1	6.3	B2/2500		
BH (60°-80°)	154.7	0.7	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: B3-U0-G1
 Type II Short





REPORT NUMBER: P530957

CATALOG NUMBER: GALN-SA6B-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2
2.5°	7368.1	7199.3	7214.6	7104.1	7039.7	6935.4	6794.2	6766.6	6613.1	6404.5	6192.7
5°	8030.9	7991.0	8043.2	7883.6	7889.7	7717.9	7386.5	7392.6	7039.7	6699.1	6370.7
7.5°	8073.9	7981.8	8034.0	8175.1	8258.0	8227.3	8040.1	7877.5	7543.0	7042.8	6564.0
10°	7230.0	7404.9	7460.1	7693.3	8024.8	8374.6	8353.1	8362.3	8083.1	7429.4	6729.8
12.5°	6723.6	6607.0	6794.2	6935.4	7435.6	8113.8	8423.7	8491.2	8512.7	7803.8	6895.5
15°	6493.5	6493.5	6524.1	6564.0	6926.2	7552.2	8184.3	8380.7	8844.1	8294.8	7156.3
17.5°	6637.7	6631.6	6674.5	6591.7	6726.7	7208.5	7963.4	8187.4	9215.4	8776.6	7361.9
20°	7076.5	7098.0	7070.4	6831.0	6840.2	7202.3	7717.9	8070.8	9467.1	9194.0	7635.0
22.5°	7687.2	7699.5	7543.0	7282.1	7205.4	7383.4	7859.0	8129.1	9669.6	9694.2	7717.9
25°	8393.0	8343.9	8313.2	7945.0	7711.8	7865.2	8178.2	8334.7	9795.4	10123.8	7954.2
27.5°	9371.9	9273.7	9086.5	8758.2	8586.3	8368.5	8592.5	8850.3	10154.5	10725.3	8212.0
30°	10817.3	10731.4	10366.2	9942.7	9491.6	9276.8	9347.4	9488.6	10802.0	11421.9	8552.6
32.5°	12993.1	12812.0	12284.2	11477.1	10863.3	10271.1	10252.7	10403.0	11382.0	12385.4	8957.7
35°	15389.7	15334.5	14558.1	13726.5	12538.9	11624.4	11639.7	11719.5	12492.9	13649.8	9488.6
37.5°	16982.4	17286.2	16792.2	15899.2	14901.8	13594.5	13263.1	13290.7	14018.0	15147.3	10446.0
40°	18213.0	17955.2	18013.5	17804.8	17123.6	16233.6	15500.2	15356.0	15782.5	16804.4	11397.3
42.5°	17676.0	17688.2	18047.3	18541.3	18710.1	18645.7	17896.9	17623.8	17292.4	18160.8	12302.6
45°	16160.0	16476.1	16942.5	18249.8	19397.5	20474.7	20327.4	19873.2	18335.7	19234.9	12824.3
47.5°	13741.8	13729.6	14493.7	16193.8	18743.9	21266.4	21935.4	21616.2	19075.3	19115.2	12716.9
48°	12848.8	13069.8	13858.4	15859.3	18329.6	21149.8	22079.6	21677.6	18949.5	18955.6	12624.8
50°	9497.8	9457.9	10439.9	12894.9	16371.7	19873.2	21472.0	21785.0	18946.4	18148.5	11980.4
52.5°	5017.4	5189.2	5904.3	8107.6	11575.3	16264.3	18940.3	19428.2	18277.4	16829.0	11053.6
55°	2132.8	1927.2	2476.5	3661.0	6511.9	10866.4	13895.3	14981.6	15454.2	14892.6	9669.6
57.5°	761.0	831.6	957.4	1377.9	2737.3	5947.2	8285.6	9129.5	10706.8	10927.8	6588.6
60°	487.9	497.1	537.0	632.2	1028.0	2292.4	3931.1	4603.1	5318.1	5490.0	3074.9
62.5°	377.5	380.5	398.9	414.3	487.9	889.9	1476.1	1749.2	1816.7	1562.0	807.1
65°	316.1	319.1	325.3	325.3	346.8	417.3	515.5	567.7	552.4	546.2	457.2
67.5°	242.4	248.6	260.8	260.8	273.1	254.7	285.4	303.8	343.7	417.3	389.7
70°	190.3	193.3	202.5	208.7	208.7	184.1	205.6	224.0	251.6	309.9	306.9
72.5°	147.3	153.4	159.6	159.6	150.4	125.8	147.3	162.6	181.1	214.8	208.7
75°	113.5	113.5	116.6	95.1	73.6	64.4	89.0	107.4	135.0	141.2	116.6
77.5°	30.7	33.8	30.7	27.6	30.7	46.0	58.3	67.5	85.9	85.9	76.7
80°	0.0	3.1	9.2	18.4	30.7	43.0	52.2	58.3	67.5	73.6	70.6
82.5°	0.0	3.1	9.2	18.4	27.6	33.8	46.0	49.1	55.2	64.4	64.4
85°	0.0	3.1	6.1	12.3	18.4	21.5	21.5	18.4	18.4	15.3	12.3
87.5°	0.0	0.0	3.1	6.1	6.1	9.2	9.2	9.2	9.2	9.2	9.2
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°	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2	6079.2
2.5°	6109.9	6014.7	5870.5	5643.4	5425.5	5284.4	5149.4	4999.0	4916.1	4910.0	4864.0
5°	6183.5	5968.7	5625.0	5235.3	4817.9	4458.9	4096.8	3860.5	3648.7	3532.1	3510.6
7.5°	6223.4	5944.2	5388.7	4735.1	4023.1	3437.0	3031.9	2734.2	2617.6	2531.7	2528.6
10°	6306.3	5901.2	5035.8	4072.2	3191.5	2599.2	2320.0	2184.9	2120.5	2096.0	2059.1
12.5°	6367.6	5821.4	4673.7	3391.0	2522.5	2154.3	2031.5	2000.8	2003.9	2016.2	2000.8
15°	6453.6	5750.8	4185.8	2783.3	2117.4	1939.4	1939.4	1945.6	1988.5	1994.7	1991.6
17.5°	6447.4	5612.7	3682.5	2292.4	1871.9	1847.4	1856.6	1914.9	1942.5	1951.7	1930.2
20°	6521.1	5483.8	3163.9	1957.9	1733.8	1770.7	1832.0	1847.4	1881.1	1887.3	1862.7
22.5°	6499.6	5161.6	2682.1	1693.9	1629.5	1700.1	1761.5	1779.9	1770.7	1752.3	1749.2
25°	6459.7	4885.4	2240.2	1519.0	1552.8	1629.5	1687.8	1654.1	1635.6	1638.7	1641.8
27.5°	6389.1	4535.6	1875.0	1396.3	1448.4	1562.0	1558.9	1546.6	1565.1	1549.7	1565.1
30°	6376.8	4185.8	1574.3	1285.8	1371.7	1454.6	1460.7	1482.2	1503.7	1476.1	1503.7
32.5°	6395.3	3802.2	1359.5	1218.3	1325.7	1328.8	1396.3	1417.8	1402.4	1341.0	1347.2
35°	6536.4	3507.6	1202.9	1181.5	1252.0	1255.1	1319.6	1291.9	1224.4	1187.6	1209.1
37.5°	6834.1	3262.1	1129.3	1147.7	1153.8	1193.7	1196.8	1141.6	1147.7	1144.6	1156.9
40°	7214.6	3074.9	1077.1	1117.0	1110.9	1138.5	1028.0	1058.7	1086.3	1095.5	1101.7
42.5°	7475.5	2939.9	1043.4	1067.9	1055.6	1006.5	945.2	975.9	997.3	1031.1	1037.2
45°	7592.1	2832.4	1003.5	982.0	982.0	893.0	868.5	874.6	923.7	960.5	954.4
47.5°	7401.8	2728.1	932.9	868.5	889.9	816.3	788.7	788.7	840.8	886.9	877.7
48°	7328.2	2685.1	936.0	843.9	859.2	804.0	776.4	770.3	828.6	871.5	871.5
50°	6963.0	2525.6	856.2	776.4	745.7	739.6	721.2	727.3	764.1	804.0	804.0
52.5°	6251.0	2181.9	724.2	665.9	610.7	647.5	656.7	644.4	662.8	699.7	696.6
55°	5216.9	1675.5	580.0	552.4	509.4	549.3	567.7	552.4	534.0	561.6	561.6
57.5°	3341.9	902.2	463.4	469.5	426.6	466.4	481.8	445.0	411.2	432.7	429.6
60°	1506.8	540.1	380.5	371.3	343.7	389.7	414.3	371.3	325.3	340.6	356.0
62.5°	564.6	383.6	288.5	282.3	276.2	319.1	331.4	297.7	251.6	260.8	263.9
65°	414.3	337.6	230.2	208.7	220.9	251.6	245.5	211.7	181.1	181.1	187.2
67.5°	352.9	294.6	187.2	162.6	162.6	165.7	153.4	135.0	125.8	132.0	138.1
70°	276.2	233.2	147.3	125.8	113.5	101.3	89.0	85.9	76.7	85.9	82.9
72.5°	178.0	156.5	113.5	95.1	85.9	70.6	58.3	55.2	46.0	43.0	43.0
75°	95.1	95.1	89.0	76.7	67.5	55.2	46.0	36.8	24.5	18.4	18.4
77.5°	67.5	73.6	79.8	73.6	61.4	46.0	36.8	24.5	12.3	6.1	6.1
80°	64.4	73.6	79.8	70.6	61.4	46.0	33.8	18.4	9.2	3.1	3.1
82.5°	58.3	67.5	73.6	64.4	55.2	39.9	30.7	18.4	9.2	3.1	3.1
85°	12.3	15.3	18.4	18.4	21.5	27.6	21.5	15.3	6.1	3.1	3.1
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	6.1	6.1	3.1	3.1	3.1
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)