

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: P454283

Luminaire Tested: **GALN-SA5B-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21153 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

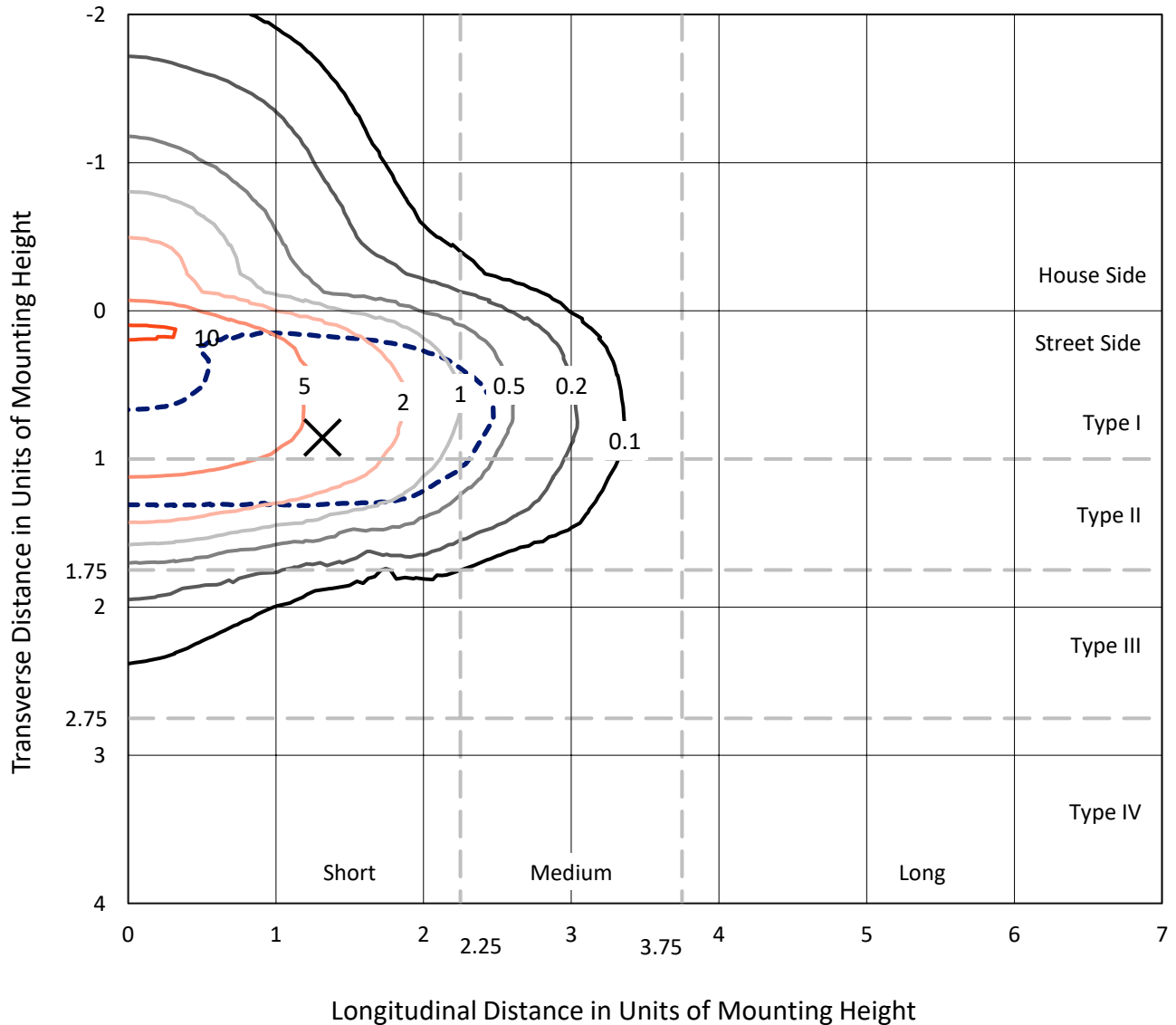
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

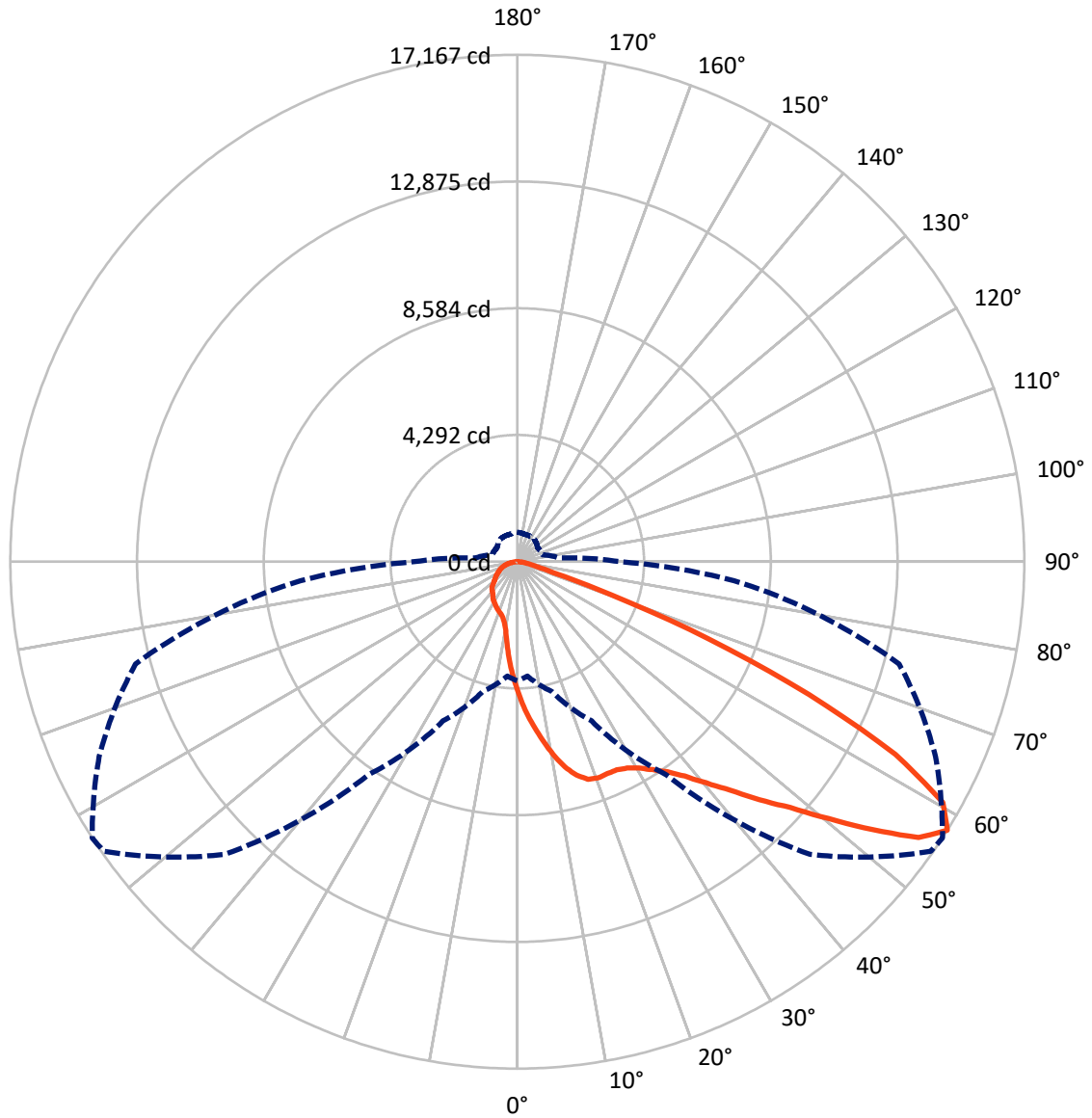
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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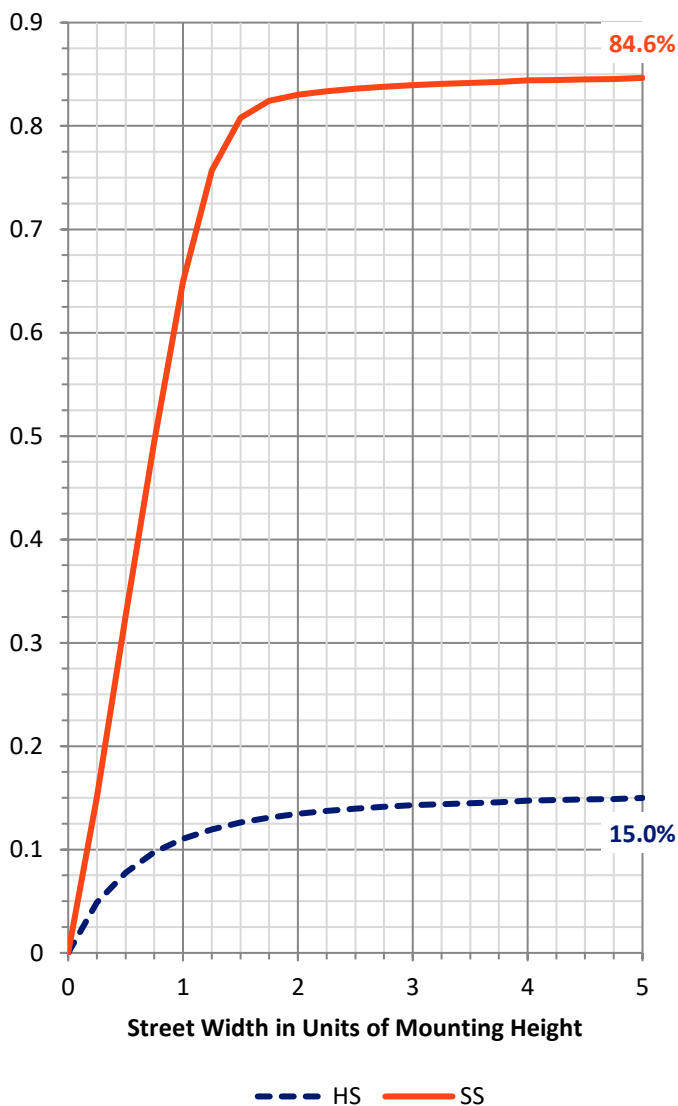
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.8	0.0	3216.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	17936.2	0.0	17936.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	21153.0	0.0	21153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	2.0
10°-20°	1258.7	6.0
20°-30°	2090.1	9.9
30°-40°	3148.3	14.9
40°-50°	4726.9	22.3
50°-60°	5298.3	25.0
60°-70°	3100.8	14.7
70°-80°	917.2	4.3
80°-90°	185.4	0.9
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°	21153.0	100.0
0°-180°	21153.0	100.0

Coefficient of Utilization



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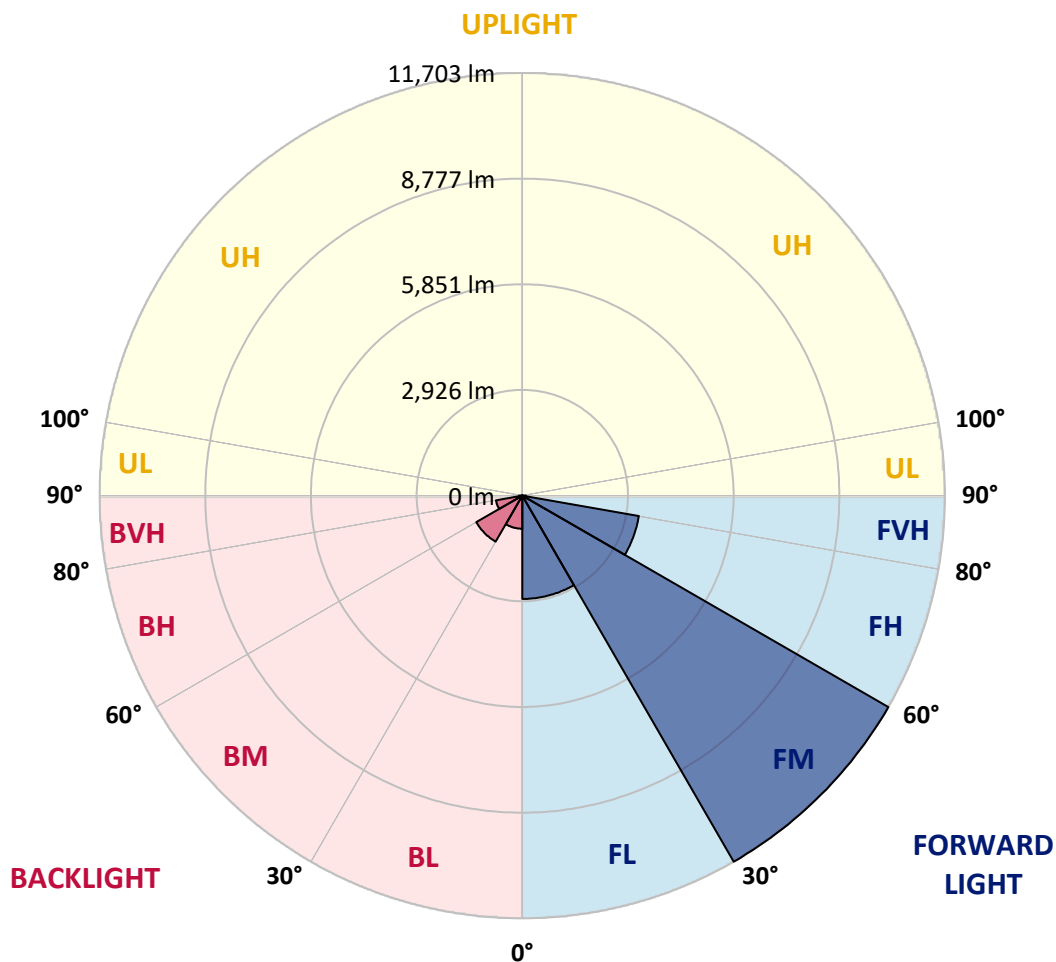
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2859.4	13.5			
FM	(30°-60°)	11702.8	55.3			
FH	(60°-80°)	3277.9	15.5			G2/5000
FVH	(80°-90°)	96.2	0.5			G1/100
BL	(0°-30°)	916.6	4.3	B2/1000		
BM	(30°-60°)	1470.8	7.0	B2/2500		
BH	(60°-80°)	740.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	89.2	0.4			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°	57°	65°	75°	85°
0°	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0
2.5°	5522.0	5461.8	5414.3	5372.6	5318.2	5171.2	5024.1	5021.8	4904.8	4724.2	4539.0
5°	6421.7	6340.6	6351.1	6221.4	6091.7	5878.6	5567.2	5551.0	5302.0	4963.9	4620.0
7.5°	7007.6	7008.7	6976.3	6902.2	6762.1	6520.1	6167.0	6087.1	5740.8	5227.9	4712.6
10°	6977.5	7008.7	7063.2	7126.8	7169.7	7050.4	6728.5	6631.3	6180.8	5547.5	4815.7
12.5°	6576.8	6625.5	6703.1	6862.8	7121.1	7317.9	7207.9	7129.2	6690.3	5865.9	4929.2
15°	6326.7	6355.7	6398.5	6506.2	6784.1	7255.4	7540.2	7498.5	7170.8	6226.0	5056.5
17.5°	6250.3	6279.3	6293.2	6359.2	6557.2	7040.0	7671.1	7745.2	7597.0	6557.2	5185.1
20°	6326.7	6340.6	6340.6	6380.0	6535.2	6913.8	7665.3	7814.6	7946.6	6954.3	5305.5
22.5°	6527.1	6532.8	6524.7	6538.6	6654.4	6948.5	7610.8	7796.1	8229.2	7291.3	5399.3
25°	6852.4	6861.7	6808.4	6776.0	6860.5	7101.4	7641.0	7811.2	8450.3	7613.2	5461.8
27.5°	7221.8	7233.4	7168.5	7093.3	7132.6	7290.1	7759.1	7911.9	8615.9	7930.4	5501.2
30°	7674.5	7679.2	7570.3	7480.0	7454.5	7571.5	7960.5	8103.0	8822.0	8304.4	5560.2
32.5°	8137.7	8172.4	8032.3	7905.0	7862.1	7898.0	8258.1	8395.9	9067.5	8706.2	5655.2
35°	8767.6	8773.4	8605.5	8450.3	8309.1	8355.4	8639.1	8738.6	9406.7	9170.5	5789.5
37.5°	9553.8	9607.1	9375.5	9086.0	8912.3	8845.2	9099.9	9208.7	9882.6	9740.2	5992.1
40°	10426.8	10446.5	10248.5	10067.9	9750.6	9556.1	9732.1	9850.2	10469.7	10419.9	6227.2
42.5°	10975.7	11018.5	11033.6	11015.1	10776.5	10450.0	10517.2	10572.7	11164.4	11057.9	6468.0
45°	11161.0	11224.6	11440.0	11896.2	11921.7	11599.8	11443.5	11496.7	11921.7	11701.7	6698.4
47.5°	10854.1	10963.0	11360.1	12295.7	12996.2	13020.5	12549.3	12432.3	12611.8	12235.5	6865.2
50°	10061.0	10084.1	10692.0	12046.7	13499.9	14378.7	13891.3	13673.6	13267.2	12630.3	6979.8
52.5°	8833.6	8860.2	9369.7	10890.0	13189.6	15328.2	15461.4	15072.3	13933.0	12937.2	7055.1
55°	6557.2	6711.2	7271.6	8741.0	11719.1	15239.1	16709.6	16488.4	14737.7	13180.3	7173.2
57.5°	4031.8	3890.5	4555.2	5947.0	8813.9	14014.0	17095.2	17167.0	15623.5	13384.1	7371.2
60°	1854.9	1882.7	2157.2	3067.3	5372.6	10963.0	16101.7	16555.6	16113.3	13377.2	7421.0
62.5°	1278.3	1252.8	1183.4	1346.6	2450.1	6933.5	13600.6	14369.5	15131.4	12961.5	7223.0
65°	1142.8	1117.4	983.1	937.9	1125.5	3022.1	9887.3	10857.6	12740.3	11912.4	6729.7
67.5°	1067.6	1032.8	893.9	805.9	803.6	1203.1	5830.0	6998.3	9449.6	10071.4	5831.2
70°	988.8	961.1	823.3	726.0	684.3	756.1	2562.4	3354.4	6135.7	7257.7	4542.4
72.5°	910.1	877.7	753.8	649.6	595.2	566.2	981.9	1277.2	3466.7	4351.4	2784.7
75°	795.5	779.3	673.9	588.2	529.2	457.4	622.9	710.9	1658.1	1998.5	1397.6
77.5°	695.9	678.5	598.6	514.1	471.3	371.7	442.3	482.8	699.4	810.5	631.1
80°	509.5	526.8	504.8	453.9	420.3	291.8	297.6	331.2	415.7	459.7	385.6
82.5°	323.1	355.5	389.1	349.7	318.4	230.4	206.1	218.8	283.7	301.1	171.4
85°	135.5	137.8	225.8	213.1	181.8	136.6	123.9	130.8	151.7	158.6	79.9
87.5°	52.1	50.9	79.9	74.1	56.7	39.4	39.4	44.0	60.2	55.6	25.5
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°	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0	4444.0
2.5°	4459.1	4376.8	4213.6	4011.0	3862.7	3696.0	3548.9	3443.6	3404.2	3385.7	3350.9
5°	4455.6	4293.5	3955.4	3601.1	3316.2	3024.4	2777.8	2618.0	2604.1	2497.6	2487.2
7.5°	4456.7	4209.0	3670.5	3149.5	2715.3	2416.5	2212.7	2159.5	2095.8	2079.6	2087.7
10°	4460.2	4101.3	3364.8	2702.5	2282.2	2086.5	2010.1	1989.3	1991.6	1998.5	1999.7
12.5°	4464.8	3997.1	3047.6	2363.3	2039.1	1958.0	1949.9	1968.4	1988.1	2003.2	2006.6
15°	4470.6	3877.8	2738.4	2090.0	1917.5	1910.5	1937.2	1968.4	1996.2	2018.2	2021.7
17.5°	4463.7	3738.8	2479.1	1922.1	1850.3	1883.9	1927.9	1967.3	1992.7	2013.6	2015.9
20°	4447.5	3583.7	2228.9	1804.0	1808.6	1863.1	1910.5	1947.6	1975.4	1985.8	1993.9
22.5°	4385.0	3398.4	2011.3	1712.5	1758.8	1834.1	1890.8	1912.8	1881.6	1859.6	1865.4
25°	4278.4	3157.6	1808.6	1638.4	1713.7	1793.6	1851.5	1798.2	1772.7	1763.5	1768.1
27.5°	4145.3	2893.6	1655.8	1560.8	1655.8	1748.4	1732.2	1722.9	1711.4	1696.3	1699.8
30°	4001.7	2635.4	1526.1	1500.6	1593.3	1646.5	1653.5	1668.5	1655.8	1632.6	1641.9
32.5°	3868.5	2392.2	1427.7	1449.7	1549.3	1541.2	1593.3	1610.6	1551.6	1474.0	1477.5
35°	3755.1	2166.4	1353.6	1399.9	1474.0	1477.5	1529.6	1469.4	1405.7	1368.6	1370.9
37.5°	3669.4	1990.4	1304.9	1357.1	1377.9	1421.9	1394.1	1362.8	1354.7	1329.3	1330.4
40°	3618.4	1836.4	1273.7	1323.5	1320.0	1350.1	1260.9	1292.2	1303.8	1295.7	1296.8
42.5°	3567.5	1727.6	1241.3	1277.2	1276.0	1216.9	1197.3	1223.9	1254.0	1257.5	1255.2
45°	3526.9	1643.1	1207.7	1206.5	1229.7	1137.1	1131.3	1147.5	1190.3	1211.2	1210.0
47.5°	3481.8	1572.4	1156.7	1124.3	1131.3	1087.3	1078.0	1084.9	1137.1	1170.6	1179.9
50°	3425.1	1501.8	1093.1	1049.1	1020.1	1040.9	1043.3	1044.4	1096.5	1134.7	1142.8
52.5°	3379.9	1448.5	1020.1	987.7	952.9	999.3	1016.6	1018.9	1050.2	1081.5	1087.3
55°	3406.5	1418.4	948.3	925.2	893.9	956.4	990.0	994.6	1001.6	1024.7	1028.2
57.5°	3486.4	1425.4	890.4	860.3	837.2	905.5	962.2	965.7	961.1	988.8	993.5
60°	3510.7	1421.9	847.6	788.5	774.6	851.1	921.7	928.6	927.5	968.0	976.1
62.5°	3408.8	1377.9	804.7	728.3	719.1	795.5	864.9	892.7	898.5	956.4	966.8
65°	3169.2	1287.6	748.0	664.6	664.6	736.4	810.5	848.7	864.9	942.5	954.1
67.5°	2853.1	1181.1	690.1	610.2	607.9	679.7	752.6	792.0	817.5	922.8	929.8
70°	2367.9	1037.5	618.3	551.2	551.2	616.0	682.0	729.5	766.5	885.8	885.8
72.5°	1622.2	862.6	531.5	484.0	485.2	545.4	612.5	665.8	709.8	811.7	814.0
75°	1025.9	673.9	436.5	412.2	416.8	473.6	543.1	598.6	686.6	802.4	805.9
77.5°	545.4	473.6	347.4	341.6	347.4	399.5	477.1	553.5	688.9	695.9	684.3
80°	353.2	335.8	274.4	262.8	265.2	321.9	424.9	525.7	553.5	560.4	534.9
82.5°	192.2	213.1	194.5	182.9	182.9	251.3	362.4	418.0	397.2	330.0	314.9
85°	82.2	99.6	100.7	88.0	84.5	155.2	243.2	228.1	211.9	202.6	200.3
87.5°	23.2	32.4	32.4	24.3	18.5	42.8	48.6	13.9	0.0	1.2	2.3
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)