

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: P650783

Luminaire Tested: **GALN-SA3C-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650783
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-SA3C-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 15926.9 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

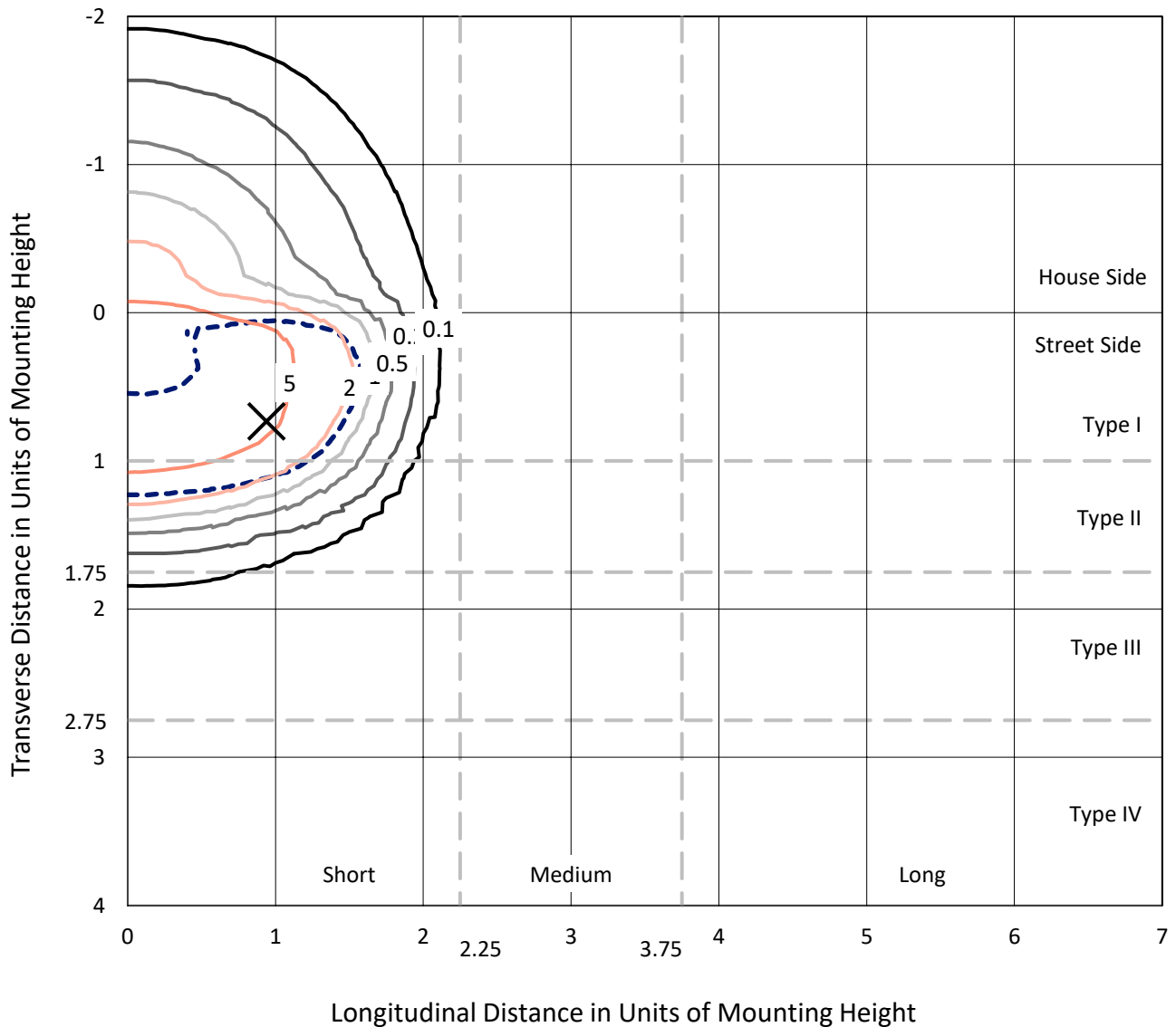
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

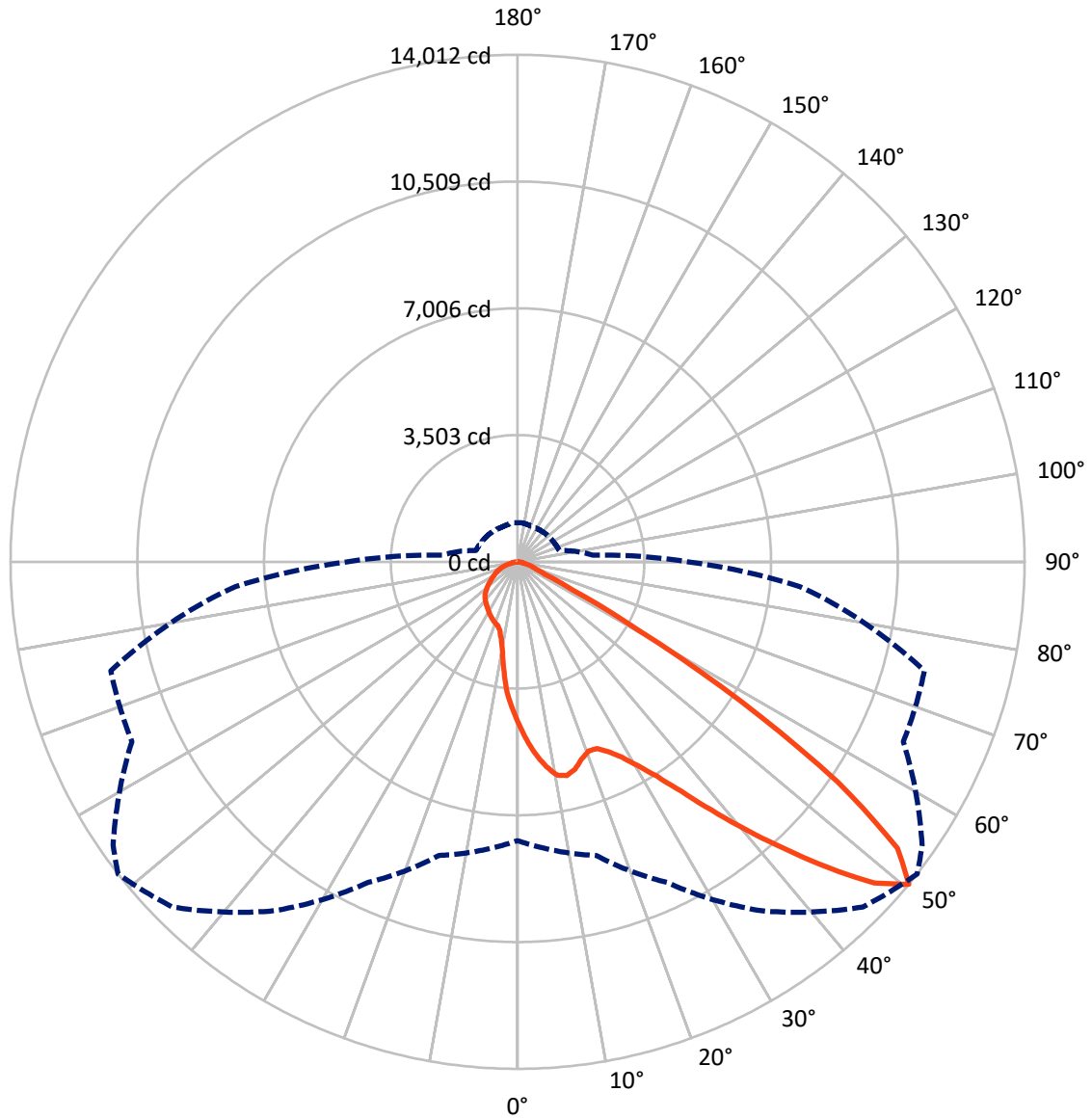
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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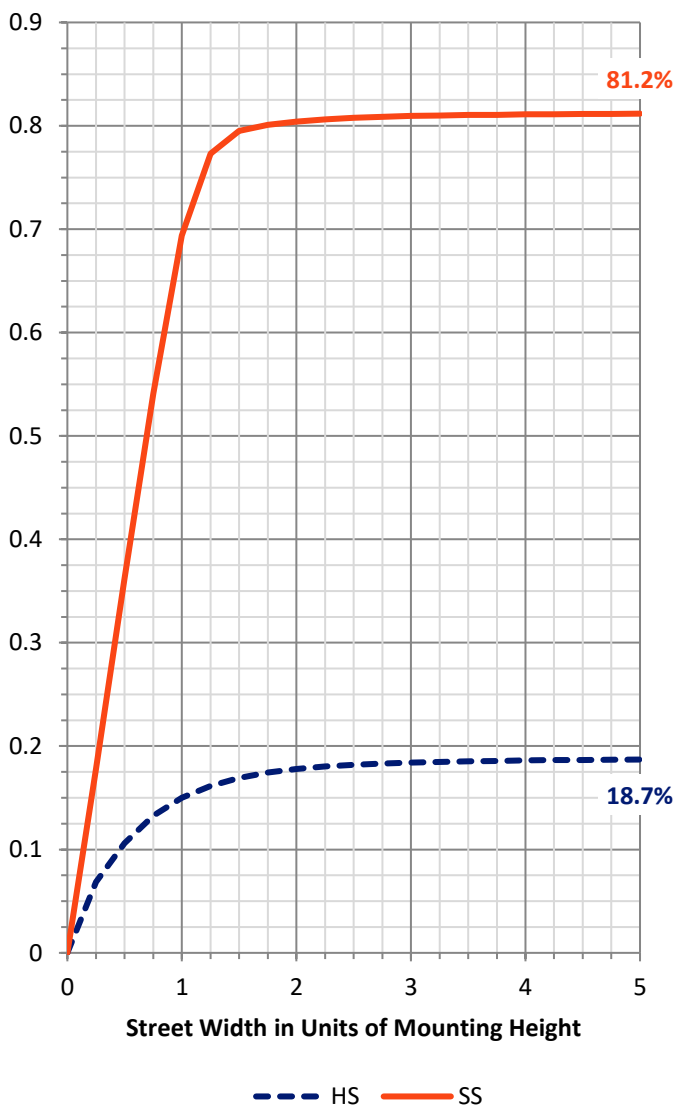
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2993.9	0.0	2993.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12933.0	0.0	12933.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	15926.9	0.0	15926.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	2.6
10°-20°	1109.1	7.0
20°-30°	1868.2	11.7
30°-40°	3135.0	19.7
40°-50°	4795.8	30.1
50°-60°	3496.5	22.0
60°-70°	778.1	4.9
70°-80°	280.7	1.8
80°-90°	49.7	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°	15926.9	100.0
0°-180°	15926.9	100.0

Coefficient of Utilization

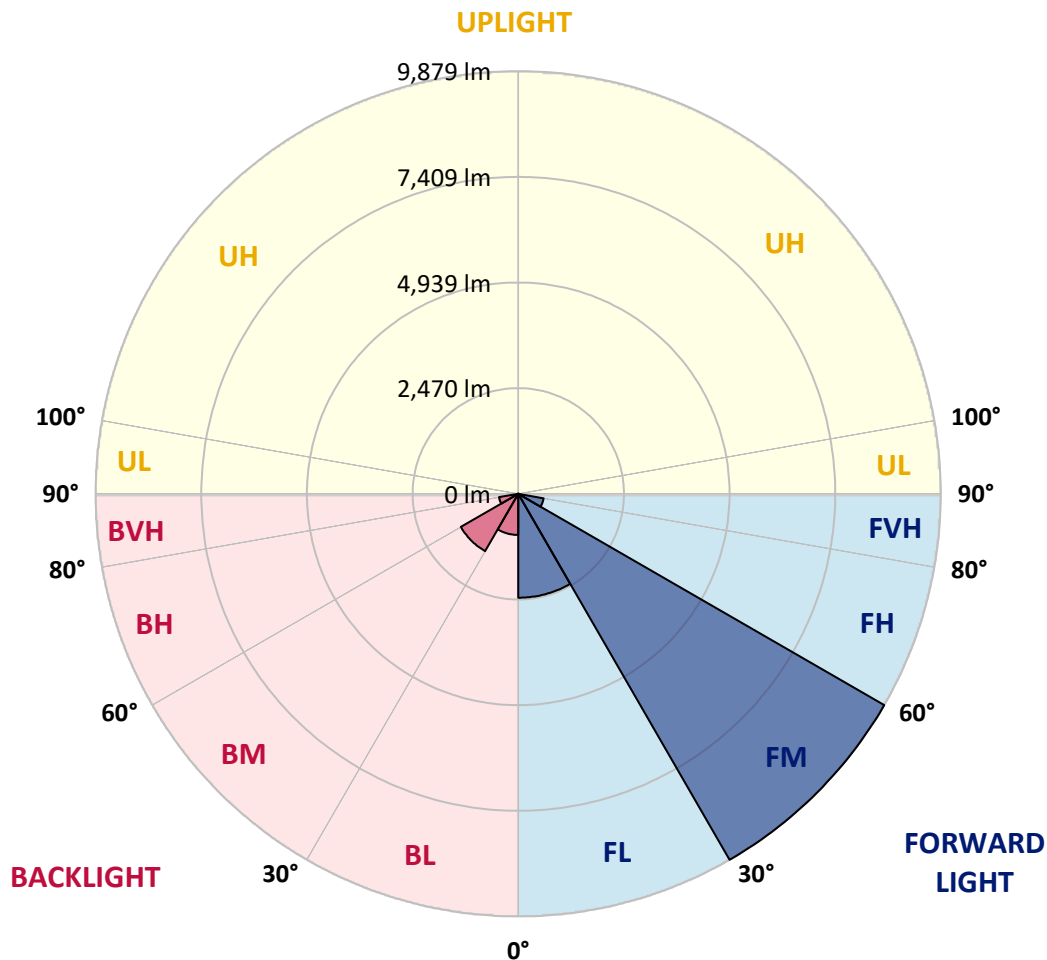


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.4	15.3			
FM (30°-60°)	9878.7	62.0			
FH (60°-80°)	602.7	3.8			G0/660
FVH (80°-90°)	22.3	0.1			G1/100
BL (0°-30°)	961.7	6.0	B2/1000		
BM (30°-60°)	1548.6	9.7	B2/2500		
BH (60°-80°)	456.1	2.9	B1/500		G1/500
BVH (80°-90°)	27.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	5286.1	5184.3	5195.9	5123.0	5044.2	5021.2	4940.5	4863.8	4806.2	4683.4	4570.2
5°	5777.4	5746.7	5700.6	5643.1	5583.6	5437.7	5355.2	5259.2	5048.1	4858.0	4669.9
7.5°	5848.5	5842.7	5867.7	5867.7	5888.8	5833.1	5716.0	5648.8	5424.3	5115.2	4765.9
10°	5349.4	5366.7	5487.6	5645.0	5863.8	6015.4	5996.2	5979.0	5733.3	5311.0	4879.1
12.5°	4952.1	4913.7	4984.7	5119.1	5447.3	5813.9	6061.5	6063.4	6000.1	5623.9	4961.7
15°	4727.5	4754.4	4773.6	4836.9	5084.5	5508.7	5944.4	6073.0	6351.3	5844.6	5092.3
17.5°	4871.5	4781.3	4777.5	4792.8	4919.4	5238.1	5727.5	5948.3	6543.3	6128.7	5253.5
20°	5059.6	5057.7	5004.0	4984.7	4982.8	5266.8	5585.5	5884.9	6645.0	6497.2	5416.6
22.5°	5389.7	5389.7	5301.4	5259.2	5169.0	5401.2	5604.7	5808.2	6814.0	6750.6	5495.3
25°	5942.5	5852.3	5700.6	5597.0	5545.2	5627.7	5808.2	5990.5	6961.7	7019.3	5658.4
27.5°	6453.1	6311.0	6236.2	6057.7	5988.6	5940.6	6105.7	6289.9	7134.5	7437.7	5746.7
30°	7032.8	7007.8	6873.4	6643.1	6472.3	6383.9	6535.6	6718.0	7451.2	7865.8	5950.2
32.5°	8069.2	7842.7	7660.4	7378.3	7099.9	6911.8	7061.5	7182.5	7977.1	8313.0	6172.9
35°	9188.3	9115.3	8800.6	8291.9	7865.8	7696.8	7785.1	7875.4	8589.4	8996.3	6547.1
37.5°	10288.0	10188.3	9929.2	9501.1	8982.9	8639.3	8702.7	8808.2	9276.6	9917.7	7003.9
40°	11078.9	10956.0	10825.5	10762.2	10247.8	9777.6	9741.1	9767.9	10205.5	10781.4	7510.7
42.5°	11136.4	11288.1	11328.4	11583.7	11462.7	11077.0	10852.3	10858.2	11092.3	11635.5	8023.1
45°	11015.5	10875.4	11172.9	11869.7	12268.9	12449.3	12071.2	12023.3	11641.3	12130.8	8278.5
47.5°	9746.8	9785.2	10288.0	11389.8	12543.4	13349.5	13261.2	13101.9	11935.0	12113.4	8238.1
50°	7704.6	7936.8	8403.2	9775.6	11775.6	13491.6	14011.7	13643.2	11760.3	11637.4	7827.4
52.5°	5130.6	5226.6	5533.7	7305.3	9468.5	12059.7	13148.0	13232.5	11599.1	11013.7	7307.2
55°	2284.1	2276.4	2708.3	3815.8	5940.6	9176.7	10743.0	11257.4	10979.1	10378.3	6800.5
57.5°	967.4	1000.0	1176.6	1648.8	2921.4	5537.5	7278.4	7729.5	8443.6	8522.2	5217.0
60°	654.6	658.3	706.4	825.4	1222.6	2600.8	3817.7	4359.0	4869.6	4835.0	2767.8
62.5°	514.4	527.8	564.3	612.3	725.5	1180.4	1708.3	2009.7	2042.3	1717.9	1049.9
65°	439.5	441.4	477.9	518.2	568.2	687.2	823.4	838.8	848.4	817.7	771.6
67.5°	362.8	366.6	395.4	441.4	487.5	526.0	564.3	583.5	627.6	714.0	702.5
70°	287.9	293.7	318.7	357.0	399.2	422.3	470.3	487.5	527.8	595.0	621.9
72.5°	218.8	220.8	241.9	268.7	307.1	330.2	370.5	389.6	416.5	474.1	499.0
75°	157.4	163.2	178.5	191.9	197.7	213.0	251.5	272.6	310.9	335.9	337.8
77.5°	82.5	86.4	90.2	90.2	109.4	138.2	163.2	174.7	201.5	220.8	211.2
80°	32.6	34.6	44.2	59.5	76.8	99.8	117.1	122.9	145.9	157.4	163.2
82.5°	19.2	21.1	28.8	42.2	55.7	71.0	84.4	90.2	105.5	119.0	122.9
85°	9.6	11.5	17.2	26.9	36.5	44.2	42.2	40.3	40.3	38.3	40.3
87.5°	3.9	3.9	5.7	5.7	5.7	7.7	9.6	9.6	9.6	11.5	11.5
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°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	4495.3	4418.5	4347.5	4216.9	4074.9	4034.6	3869.5	3810.1	3767.8	3717.9	3702.6
5°	4518.3	4416.6	4188.2	3925.2	3716.0	3447.3	3270.6	3080.7	2942.5	2907.9	2898.3
7.5°	4566.3	4391.6	3998.1	3600.8	3172.8	2808.1	2529.8	2380.1	2247.7	2239.9	2226.5
10°	4620.0	4316.8	3790.8	3167.0	2620.0	2282.2	2115.2	2049.9	2017.3	2009.7	2005.8
12.5°	4664.2	4301.4	3558.6	2744.8	2228.5	2025.0	1975.1	1969.3	1982.7	1986.6	1994.3
15°	4683.4	4240.0	3278.4	2366.7	1984.7	1909.8	1930.9	1954.0	1963.6	1988.5	1969.3
17.5°	4719.9	4161.3	2932.9	2067.2	1848.4	1861.8	1898.3	1925.2	1940.5	1957.8	1932.9
20°	4739.0	4090.3	2608.5	1888.7	1800.4	1825.4	1875.3	1896.4	1915.5	1923.3	1894.4
22.5°	4721.8	3944.4	2322.5	1744.7	1754.3	1787.0	1831.1	1854.2	1842.6	1811.9	1794.7
25°	4675.7	3739.0	2025.0	1652.6	1689.1	1746.7	1781.2	1763.9	1742.8	1725.6	1719.8
27.5°	4673.8	3487.5	1810.0	1568.1	1633.4	1712.1	1700.6	1685.3	1694.9	1681.4	1666.0
30°	4683.4	3243.8	1633.4	1520.2	1593.1	1631.5	1644.9	1629.6	1641.1	1616.1	1623.8
32.5°	4633.5	3005.8	1518.3	1464.5	1545.2	1543.2	1587.4	1598.9	1572.0	1520.2	1527.8
35°	4654.6	2813.9	1420.4	1439.5	1491.3	1491.3	1525.9	1512.5	1441.5	1410.8	1418.4
37.5°	4800.4	2625.8	1372.3	1405.0	1439.5	1454.9	1443.4	1385.8	1368.6	1368.6	1372.3
40°	4938.7	2464.6	1343.6	1397.3	1391.6	1401.2	1316.8	1322.5	1322.5	1324.4	1314.8
42.5°	5061.5	2355.1	1320.5	1351.2	1360.9	1311.0	1259.1	1253.3	1266.8	1264.9	1257.2
45°	5105.6	2264.9	1287.9	1299.4	1307.1	1224.6	1199.6	1188.1	1203.5	1209.3	1216.9
47.5°	4936.8	2190.0	1251.5	1228.4	1213.1	1159.3	1126.7	1105.6	1124.8	1157.4	1165.1
50°	4719.9	2092.2	1193.9	1149.7	1117.1	1094.1	1071.0	1049.9	1063.4	1086.4	1080.6
52.5°	4399.3	1938.6	1121.0	1074.9	1019.2	1025.0	1003.8	992.4	1000.0	1000.0	994.2
55°	3942.5	1593.1	998.1	965.5	919.4	934.8	938.6	923.2	907.9	921.3	909.8
57.5°	2691.0	1124.8	890.6	890.6	844.5	865.6	863.7	827.3	790.8	794.7	786.9
60°	1556.6	896.3	821.5	813.8	765.8	783.1	786.9	762.0	706.4	710.2	702.5
62.5°	884.8	765.8	717.9	706.4	696.8	712.1	712.1	679.4	631.5	635.3	627.6
65°	752.4	710.2	641.1	639.2	635.3	639.2	623.8	589.3	547.1	529.7	531.7
67.5°	683.3	656.4	589.3	572.0	560.4	558.6	529.7	497.1	477.9	462.6	460.7
70°	598.9	577.8	527.8	504.8	493.3	466.4	437.7	416.5	389.6	382.0	389.6
72.5°	474.1	472.1	453.0	428.1	403.1	382.0	357.0	328.2	303.3	297.5	284.1
75°	328.2	332.0	335.9	332.0	310.9	284.1	255.2	232.3	201.5	184.3	180.4
77.5°	215.0	220.8	226.5	218.8	205.4	180.4	161.2	132.5	109.4	96.0	94.0
80°	157.4	165.1	168.9	163.2	147.8	128.6	107.5	84.4	67.2	55.7	55.7
82.5°	120.9	128.6	132.5	122.9	107.5	92.2	76.8	59.5	46.1	36.5	34.6
85°	42.2	40.3	48.0	49.9	59.5	55.7	46.1	34.6	26.9	19.2	17.2
87.5°	11.5	11.5	13.5	13.5	11.5	9.6	9.6	9.6	7.7	5.7	5.7
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)