

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: P528384

Luminaire Tested: **GALN-SA3C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528384
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 15838 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

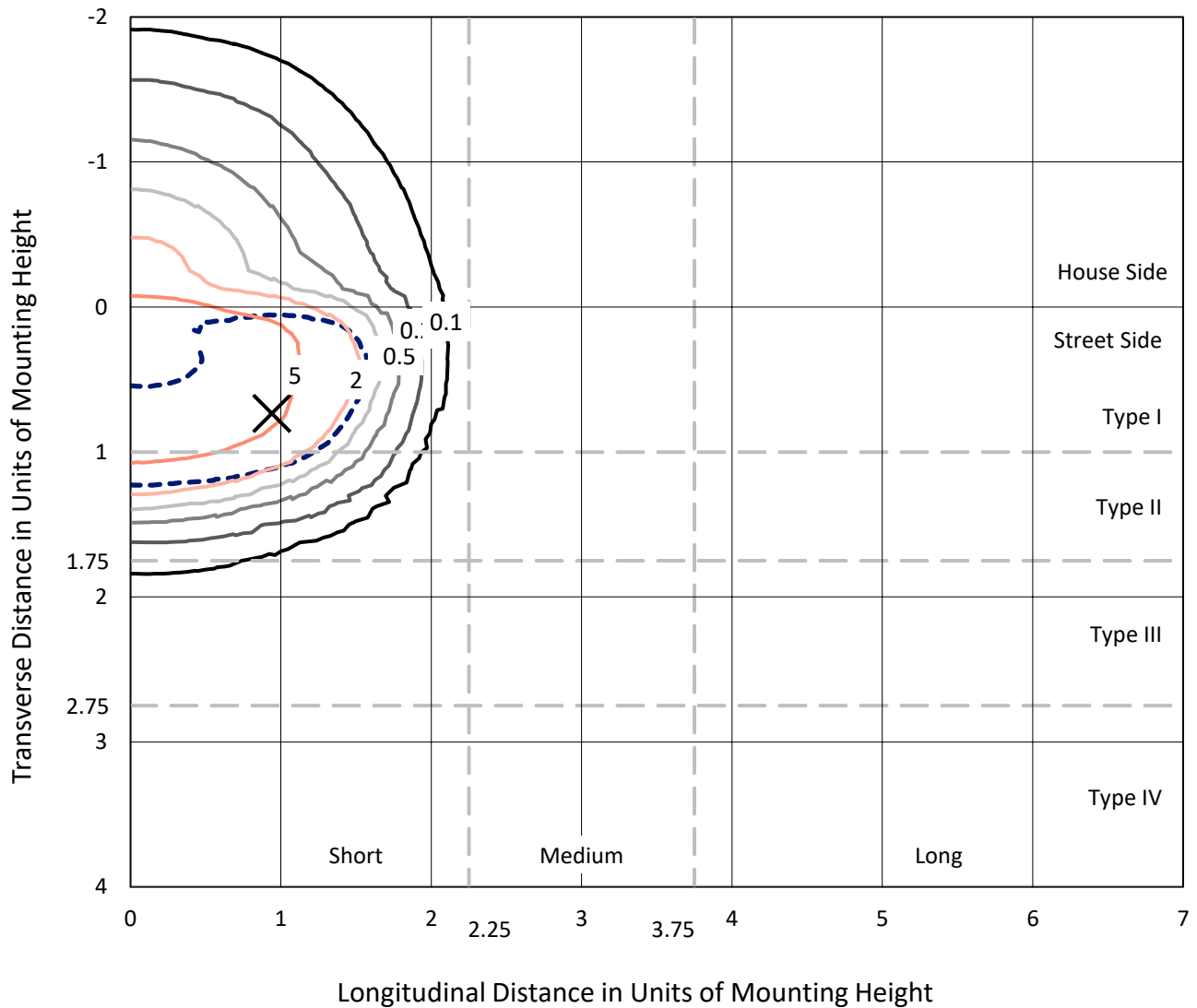
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

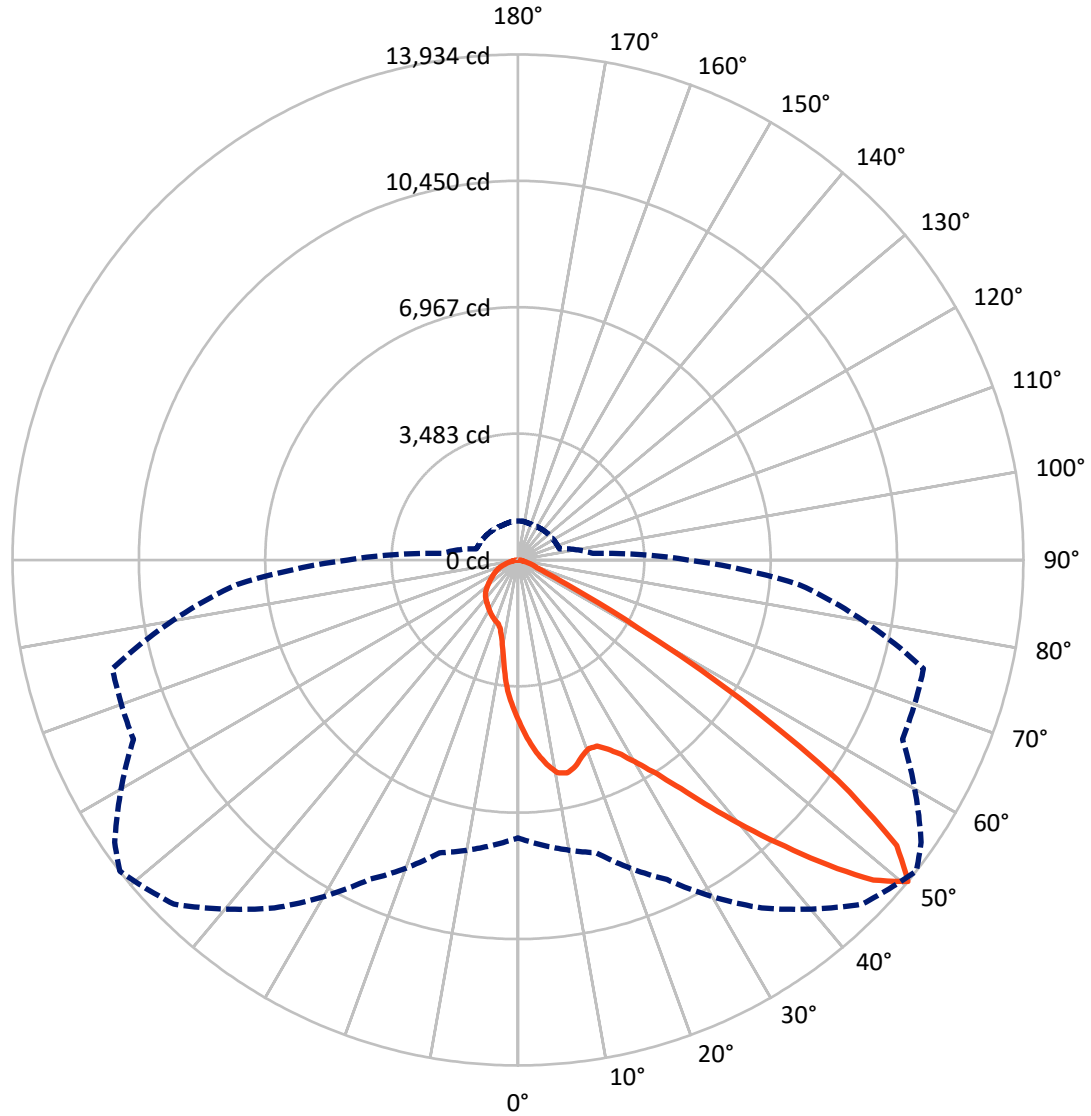
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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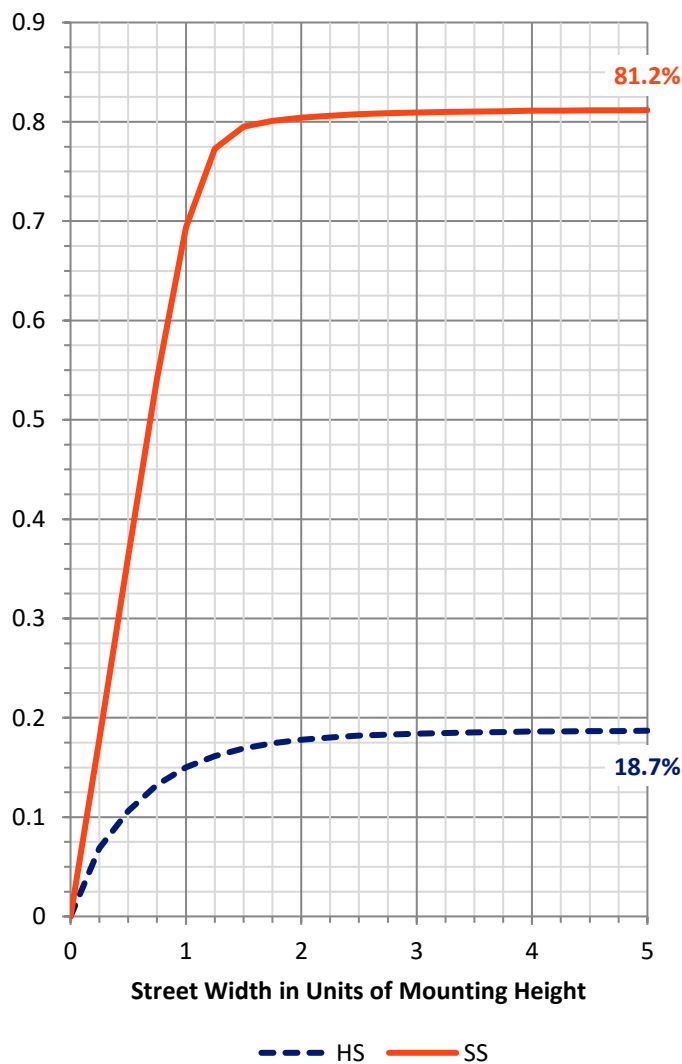
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.2	0.0	2977.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12860.8	0.0	12860.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	15838.0	0.0	15838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.5	2.6
10°-20°	1102.9	7.0
20°-30°	1857.8	11.7
30°-40°	3117.5	19.7
40°-50°	4769.0	30.1
50°-60°	3477.0	22.0
60°-70°	773.8	4.9
70°-80°	279.1	1.8
80°-90°	49.4	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°	15838.0	100.0
0°-180°	15838.0	100.0

Coefficient of Utilization



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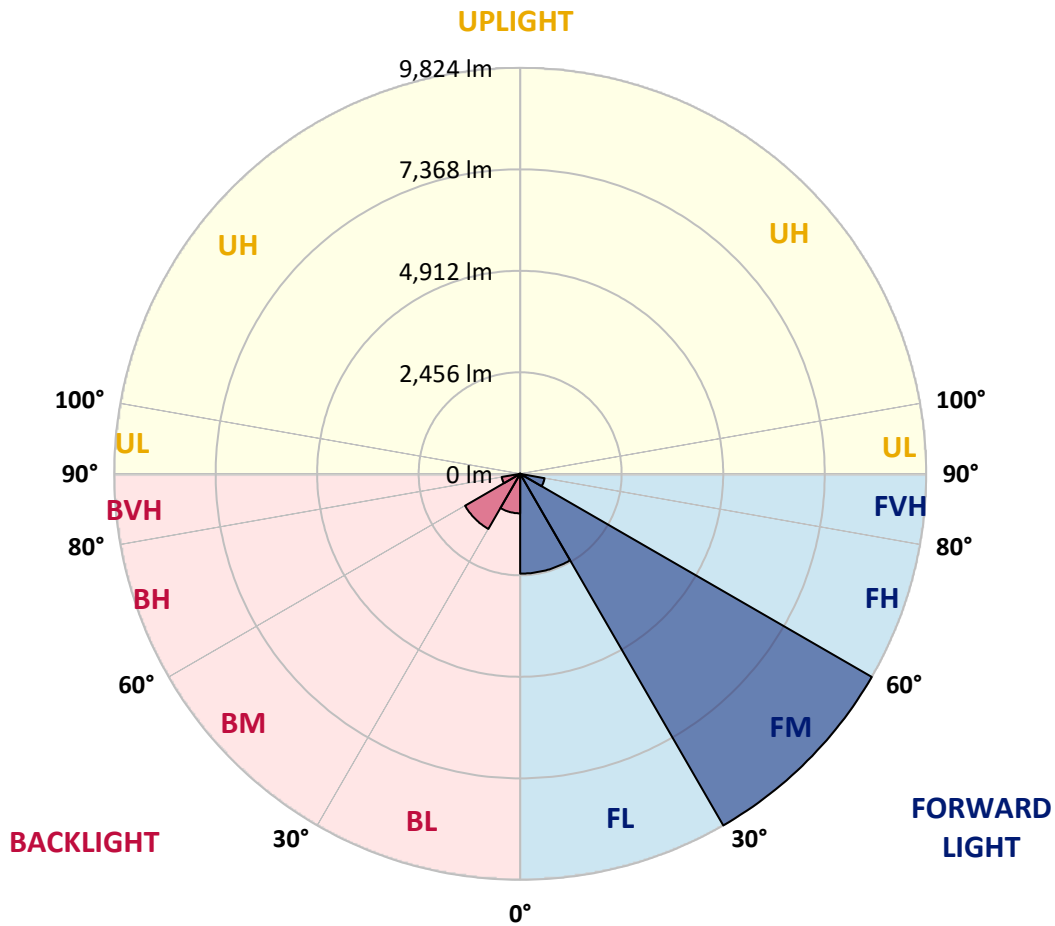
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.8	15.3			
FM (30°-60°)	9823.5	62.0			
FH (60°-80°)	599.3	3.8			G0/660
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	956.3	6.0	B2/1000		
BM (30°-60°)	1540.0	9.7	B2/2500		
BH (60°-80°)	453.6	2.9	B1/500		G1/500
BVH (80°-90°)	27.3	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°	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5
2.5°	5256.6	5155.4	5166.9	5094.3	5016.1	4993.2	4913.0	4836.7	4779.4	4657.2	4544.6
5°	5745.2	5714.7	5668.9	5611.6	5552.4	5407.4	5325.3	5229.9	5019.9	4830.9	4643.9
7.5°	5815.8	5810.1	5834.9	5834.9	5855.9	5800.6	5684.1	5617.3	5394.0	5086.7	4739.3
10°	5319.6	5336.7	5457.0	5613.5	5831.1	5981.9	5962.8	5945.6	5701.3	5281.4	4851.9
12.5°	4924.5	4886.3	4956.9	5090.5	5416.9	5781.5	6027.7	6029.6	5966.6	5592.5	4934.0
15°	4701.1	4727.9	4747.0	4809.9	5056.2	5478.0	5911.3	6039.2	6315.9	5812.0	5063.8
17.5°	4844.3	4754.6	4750.8	4766.0	4892.0	5208.9	5695.6	5915.1	6506.8	6094.5	5224.1
20°	5031.4	5029.4	4976.0	4956.9	4955.0	5237.5	5554.3	5852.1	6607.9	6461.0	5386.4
22.5°	5359.7	5359.7	5271.9	5229.9	5140.2	5371.1	5573.4	5775.8	6775.9	6712.9	5464.6
25°	5909.4	5819.7	5668.9	5565.8	5514.3	5596.3	5775.8	5957.1	6922.9	6980.1	5626.9
27.5°	6417.1	6275.8	6201.4	6023.9	5955.2	5907.5	6071.6	6254.8	7094.7	7396.2	5714.7
30°	6993.5	6968.7	6835.1	6606.0	6436.2	6348.4	6499.2	6680.5	7409.6	7821.9	5917.0
32.5°	8024.2	7799.0	7617.7	7337.1	7060.3	6873.3	7022.1	7142.4	7932.6	8266.6	6138.4
35°	9137.0	9064.5	8751.4	8245.6	7821.9	7653.9	7741.7	7831.4	8541.5	8946.1	6510.6
37.5°	10230.7	10131.4	9873.8	9448.1	8932.8	8591.1	8654.1	8759.1	9224.8	9862.3	6964.9
40°	11017.1	10894.9	10765.1	10702.1	10190.6	9723.0	9686.7	9713.4	10148.6	10721.2	7468.8
42.5°	11074.3	11225.1	11265.2	11519.1	11398.8	11015.2	10791.8	10797.6	11030.4	11570.6	7978.4
45°	10954.1	10814.7	11110.6	11803.5	12200.5	12379.9	12003.9	11956.2	11576.3	12063.0	8232.3
47.5°	9692.4	9730.6	10230.7	11326.3	12473.4	13275.1	13187.3	13028.8	11868.4	12045.9	8192.2
50°	7661.6	7892.5	8356.3	9721.1	11709.9	13416.3	13933.6	13567.1	11694.7	11572.5	7783.7
52.5°	5102.0	5197.4	5502.8	7264.5	9415.7	11992.4	13074.7	13158.6	11534.3	10952.2	7266.5
55°	2271.4	2263.7	2693.2	3794.5	5907.5	9125.5	10683.0	11194.6	10917.8	10320.4	6762.6
57.5°	962.0	994.4	1170.0	1639.6	2905.1	5506.6	7237.8	7686.4	8396.4	8474.7	5187.9
60°	650.9	654.7	702.4	820.7	1215.8	2586.3	3796.4	4334.7	4842.4	4808.0	2752.4
62.5°	511.5	524.9	561.2	608.9	721.5	1173.9	1698.8	1998.4	2030.9	1708.3	1044.1
65°	437.1	439.0	475.3	515.4	565.0	683.3	818.8	834.1	843.6	813.1	767.3
67.5°	360.7	364.6	393.2	439.0	484.8	523.0	561.2	580.2	624.1	710.0	698.6
70°	286.3	292.0	316.8	355.0	397.0	419.9	467.6	484.8	524.9	591.7	618.4
72.5°	217.6	219.5	240.5	267.2	305.4	328.3	368.4	387.5	414.2	471.5	496.3
75°	156.5	162.2	177.5	190.9	196.6	211.9	250.0	271.0	309.2	334.0	335.9
77.5°	82.1	85.9	89.7	89.7	108.8	137.4	162.2	173.7	200.4	219.5	210.0
80°	32.4	34.4	43.9	59.2	76.3	99.3	116.4	122.2	145.1	156.5	162.2
82.5°	19.1	21.0	28.6	42.0	55.4	70.6	84.0	89.7	105.0	118.3	122.2
85°	9.5	11.5	17.2	26.7	36.3	43.9	42.0	40.1	40.1	38.2	40.1
87.5°	3.8	3.8	5.7	5.7	5.7	7.6	9.5	9.5	9.5	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°	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5	4464.5
2.5°	4470.2	4393.8	4323.2	4193.4	4052.2	4012.1	3848.0	3788.8	3746.8	3697.2	3681.9
5°	4493.1	4391.9	4164.8	3903.3	3695.3	3428.0	3252.4	3063.5	2926.1	2891.7	2882.2
7.5°	4540.8	4367.1	3975.8	3580.7	3155.1	2792.4	2515.7	2366.8	2235.1	2227.5	2214.1
10°	4594.3	4292.7	3769.7	3149.4	2605.4	2269.5	2103.4	2038.5	2006.1	1998.4	1994.6
12.5°	4638.2	4277.4	3538.7	2729.5	2216.0	2013.7	1964.1	1958.3	1971.7	1975.5	1983.1
15°	4657.2	4216.3	3260.1	2353.4	1973.6	1899.2	1920.2	1943.1	1952.6	1977.4	1958.3
17.5°	4693.5	4138.1	2916.5	2055.7	1838.1	1851.4	1887.7	1914.4	1929.7	1946.9	1922.1
20°	4712.6	4067.5	2593.9	1878.2	1790.4	1815.2	1864.8	1885.8	1904.9	1912.5	1883.9
22.5°	4695.4	3922.4	2309.5	1735.0	1744.6	1777.0	1820.9	1843.8	1832.4	1801.8	1784.6
25°	4649.6	3718.2	2013.7	1643.4	1679.7	1736.9	1771.3	1754.1	1733.1	1715.9	1710.2
27.5°	4647.7	3468.1	1799.9	1559.4	1624.3	1702.6	1691.1	1675.8	1685.4	1672.0	1656.8
30°	4657.2	3225.7	1624.3	1511.7	1584.2	1622.4	1635.8	1620.5	1631.9	1607.1	1614.8
32.5°	4607.6	2989.0	1509.8	1456.3	1536.5	1534.6	1578.5	1590.0	1563.2	1511.7	1519.3
35°	4628.6	2798.2	1412.4	1431.5	1483.1	1483.1	1517.4	1504.1	1433.4	1402.9	1410.5
37.5°	4773.7	2611.1	1364.7	1397.2	1431.5	1446.8	1435.3	1378.1	1360.9	1360.9	1364.7
40°	4911.1	2450.8	1336.1	1389.5	1383.8	1393.4	1309.4	1315.1	1315.1	1317.0	1307.5
42.5°	5033.3	2342.0	1313.2	1343.7	1353.3	1303.6	1252.1	1246.4	1259.7	1257.8	1250.2
45°	5077.2	2252.3	1280.7	1292.2	1299.8	1217.8	1192.9	1181.5	1196.8	1202.5	1210.1
47.5°	4909.2	2177.8	1244.5	1221.6	1206.3	1152.9	1120.4	1099.4	1118.5	1151.0	1158.6
50°	4693.5	2080.5	1187.2	1143.3	1110.9	1088.0	1065.1	1044.1	1057.4	1080.3	1074.6
52.5°	4374.8	1927.8	1114.7	1068.9	1013.5	1019.3	998.3	986.8	994.4	994.4	988.7
55°	3920.5	1584.2	992.5	960.1	914.3	929.5	933.4	918.1	902.8	916.2	904.7
57.5°	2676.0	1118.5	885.6	885.6	839.8	860.8	858.9	822.7	786.4	790.2	782.6
60°	1548.0	891.4	816.9	809.3	761.6	778.8	782.6	757.8	702.4	706.2	698.6
62.5°	879.9	761.6	713.9	702.4	692.9	708.1	708.1	675.7	628.0	631.8	624.1
65°	748.2	706.2	637.5	635.6	631.8	635.6	620.3	586.0	544.0	526.8	528.7
67.5°	679.5	652.8	586.0	568.8	557.3	555.4	526.8	494.4	475.3	460.0	458.1
70°	595.5	574.5	524.9	502.0	490.5	463.8	435.2	414.2	387.5	379.8	387.5
72.5°	471.5	469.5	450.5	425.6	400.8	379.8	355.0	326.4	301.6	295.8	282.5
75°	326.4	330.2	334.0	330.2	309.2	282.5	253.9	231.0	200.4	183.2	179.4
77.5°	213.8	219.5	225.2	217.6	204.2	179.4	160.3	131.7	108.8	95.4	93.5
80°	156.5	164.1	168.0	162.2	147.0	127.9	106.9	84.0	66.8	55.4	55.4
82.5°	120.2	127.9	131.7	122.2	106.9	91.6	76.3	59.2	45.8	36.3	34.4
85°	42.0	40.1	47.7	49.6	59.2	55.4	45.8	34.4	26.7	19.1	17.2
87.5°	11.5	11.5	13.4	13.4	11.5	9.5	9.5	9.5	7.6	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)