

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: P528398

Luminaire Tested: **GALN-SA3C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15424 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

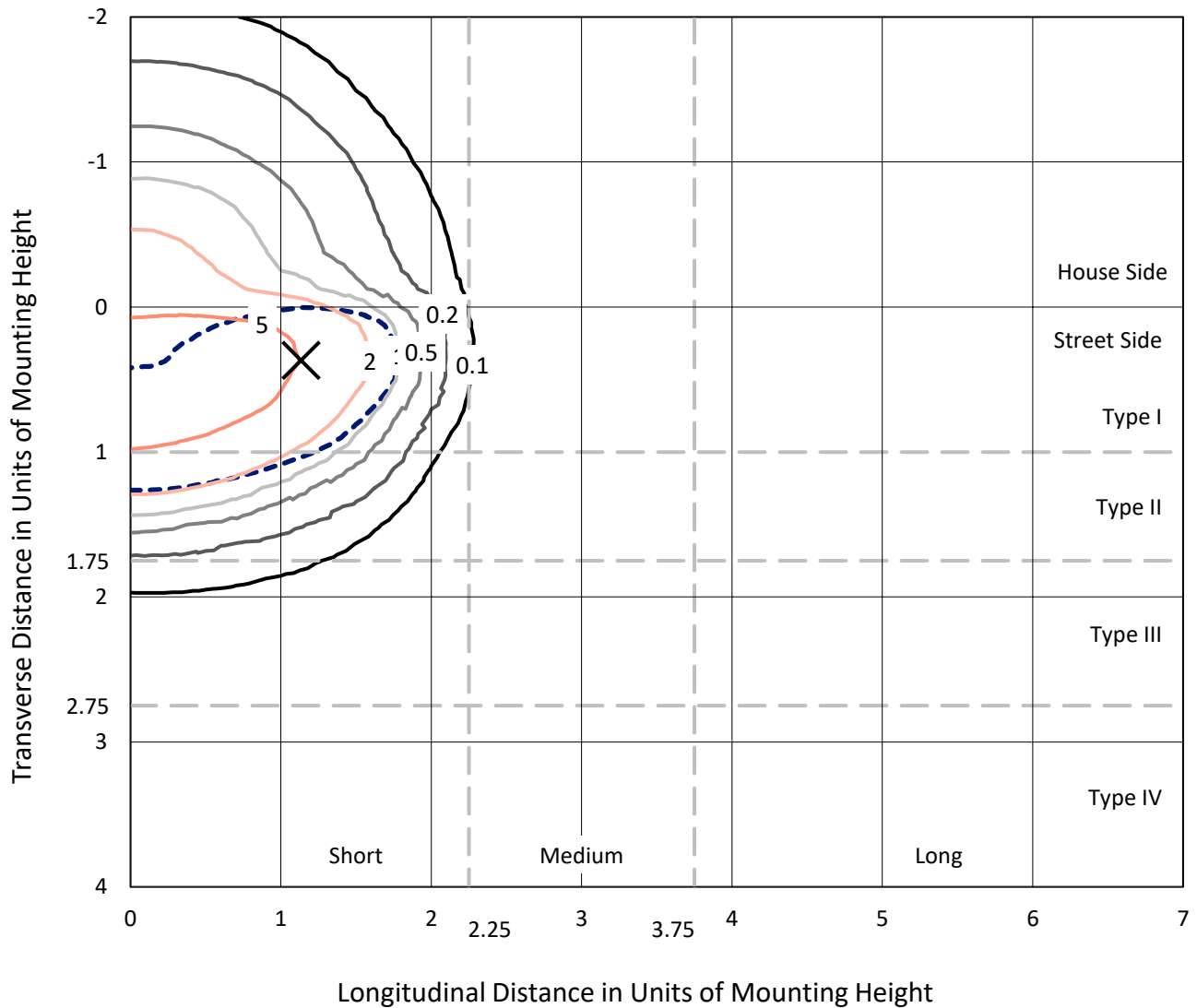
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

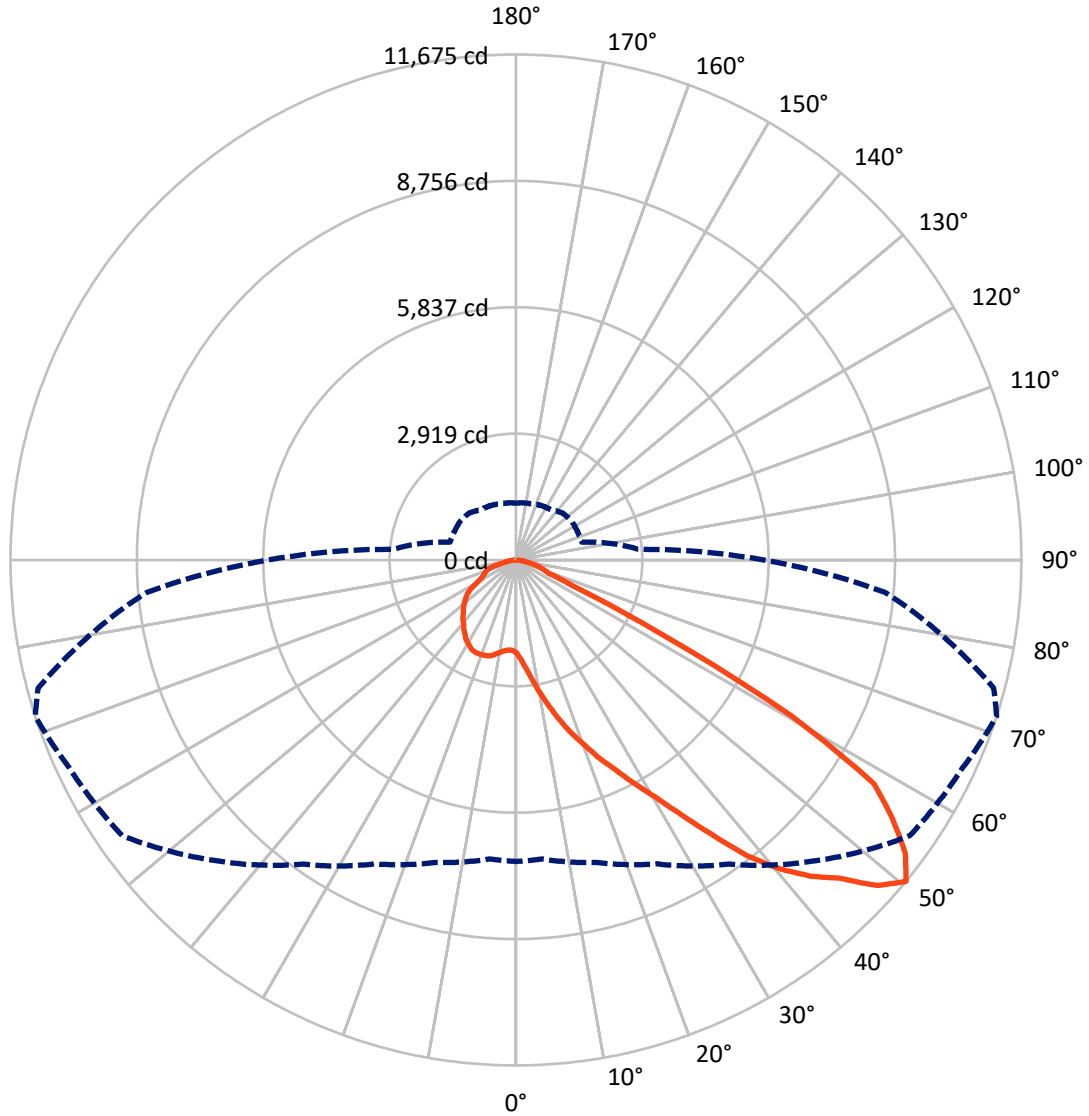
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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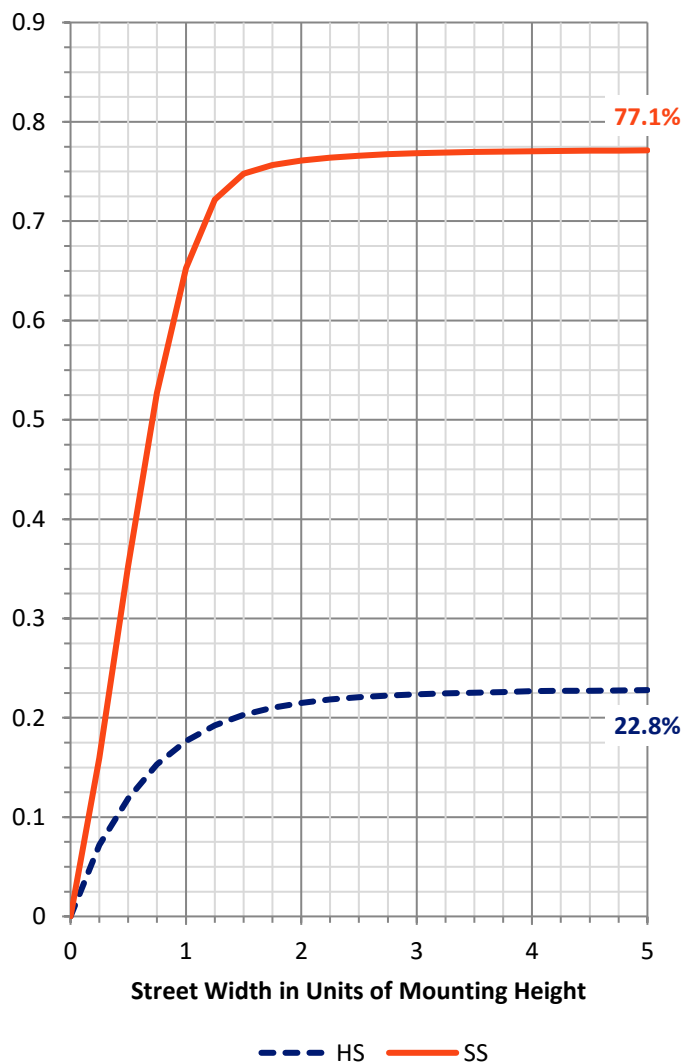
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.7	0.0	3533.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11890.3	0.0	11890.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	15424.0	0.0	15424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.6
10°-20°	944.2	6.1
20°-30°	1830.6	11.9
30°-40°	3032.7	19.7
40°-50°	4243.5	27.5
50°-60°	3579.9	23.2
60°-70°	1091.2	7.1
70°-80°	382.8	2.5
80°-90°	66.6	0.4
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°	15424.0	100.0
0°-180°	15424.0	100.0

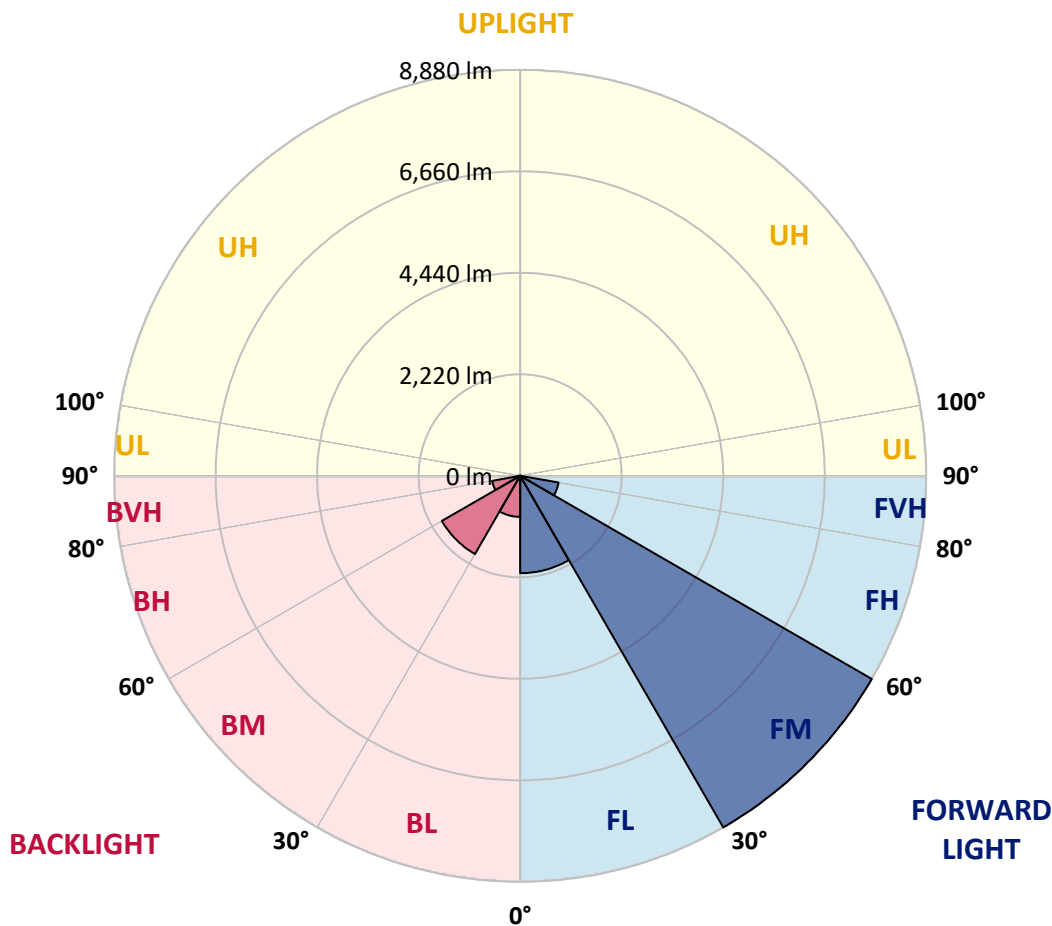


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.1	13.8			
FM (30°-60°)	8880.0	57.6			
FH (60°-80°)	851.4	5.5			G1/1800
FVH (80°-90°)	29.8	0.2			G1/100
BL (0°-30°)	898.3	5.8	B2/1000		
BM (30°-60°)	1976.1	12.8	B2/2500		
BH (60°-80°)	622.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	36.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2761.7	2744.5	2693.0	2675.8	2614.8	2504.1	2465.9	2353.3	2305.6	2261.7	2210.1
5°	3492.7	3412.5	3406.8	3309.5	3168.2	3086.2	2841.9	2677.7	2527.0	2450.6	2309.4
7.5°	3958.4	3960.3	3960.3	3880.1	3767.5	3559.5	3340.0	3044.2	2817.1	2704.5	2464.0
10°	4401.2	4363.0	4342.0	4334.4	4258.0	4055.7	3821.0	3454.5	3143.4	3011.7	2580.4
12.5°	4714.2	4681.7	4729.5	4704.6	4649.3	4517.6	4296.2	3878.2	3488.9	3311.4	2767.4
15°	4863.1	4886.0	4924.1	4992.8	4968.0	4918.4	4674.1	4313.4	3861.1	3660.7	2933.5
17.5°	5092.1	5029.1	5074.9	5160.8	5229.5	5206.6	5067.3	4628.3	4229.4	3983.2	3156.8
20°	5252.4	5216.1	5239.1	5338.3	5389.8	5519.6	5447.1	5040.6	4582.5	4322.9	3420.2
22.5°	5710.5	5657.0	5582.6	5597.9	5617.0	5708.6	5725.7	5492.9	4992.8	4718.0	3670.2
25°	6275.4	6225.8	6138.0	6048.3	5992.9	5975.8	6034.9	5847.9	5386.0	5101.6	3939.3
27.5°	6897.6	6813.6	6758.3	6573.1	6424.3	6401.4	6372.7	6271.6	5851.7	5544.4	4242.8
30°	7502.6	7435.8	7361.4	7065.6	6911.0	6886.2	6744.9	6773.5	6357.5	6015.8	4586.3
32.5°	7960.7	7966.4	7796.5	7573.2	7428.2	7296.5	7245.0	7327.0	7006.4	6731.6	4969.9
35°	8331.0	8348.1	8185.9	7983.6	7827.1	7918.7	7895.8	7934.0	7781.3	7445.4	5416.5
37.5°	8691.7	8605.8	8432.1	8334.8	8252.7	8403.5	8598.2	8630.6	8659.2	8264.2	5935.7
40°	8750.8	8758.5	8657.3	8726.0	8623.0	8850.1	9302.4	9260.4	9376.9	9031.4	6498.7
42.5°	8666.9	8684.0	8724.1	8821.5	9069.6	9342.5	10014.3	9842.5	9983.8	9676.5	7046.5
45°	8529.4	8458.8	8508.4	8878.7	9308.1	9915.1	10665.1	10531.5	10485.7	10228.1	7699.2
47.5°	7872.9	7945.4	8100.0	8556.2	9201.3	10014.3	11127.0	11096.5	11233.9	11052.6	8292.8
50°	6962.5	6933.9	7231.6	7745.0	8577.2	9819.6	11102.2	11379.0	11674.8	11422.9	8558.1
52.5°	5214.2	5366.9	5622.7	6260.1	7447.3	8758.5	10560.2	11022.0	11262.5	11209.1	8344.3
55°	3296.1	3341.9	3496.5	4254.2	5323.0	7029.3	9052.4	10123.1	10552.5	10752.9	8147.7
57.5°	1601.3	1515.4	1704.4	2313.2	3074.7	4727.6	6981.6	8817.6	9750.9	10113.6	7720.2
60°	836.0	868.4	942.8	1160.4	1589.8	2454.4	4351.6	5876.5	7302.2	7859.5	5851.7
62.5°	692.8	704.3	753.9	862.7	1057.4	1412.3	2221.6	2864.8	3723.6	4225.6	3328.6
65°	587.8	593.6	647.0	719.5	843.6	994.4	1143.2	1196.7	1448.6	1486.8	1183.3
67.5°	490.5	496.2	553.5	622.2	702.4	742.4	780.6	776.8	805.4	794.0	792.1
70°	377.9	383.6	442.8	515.3	555.4	532.5	650.8	677.5	689.0	698.5	713.8
72.5°	272.9	284.4	330.2	381.7	360.7	414.2	536.3	576.4	591.7	597.4	616.5
75°	198.5	202.3	213.8	198.5	229.0	288.2	377.9	427.5	446.6	452.3	481.0
77.5°	87.8	89.7	91.6	114.5	147.0	179.4	225.2	265.3	292.0	299.6	307.3
80°	45.8	47.7	59.2	78.3	105.0	131.7	164.1	187.0	204.2	206.1	213.8
82.5°	28.6	30.5	42.0	55.3	74.4	97.3	120.2	139.3	152.7	154.6	156.5
85°	13.4	17.2	24.8	34.4	49.6	63.0	64.9	55.3	59.2	61.1	57.3
87.5°	3.8	5.7	7.6	5.7	7.6	7.6	9.5	11.5	11.5	11.5	13.4
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°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2181.5	2164.3	2097.5	2072.7	2007.8	2019.3	1984.9	1983.0	1975.4	1973.5	1971.6
5°	2234.9	2181.5	2101.3	2040.3	2004.0	2000.2	1975.4	1975.4	1983.0	1988.7	1975.4
7.5°	2322.7	2261.7	2126.2	2068.9	2036.5	2030.7	2013.6	2000.2	2017.4	2011.6	1996.4
10°	2423.9	2317.0	2173.9	2124.2	2070.8	2057.4	2057.4	2063.2	2034.5	2044.1	2028.8
12.5°	2536.5	2393.4	2234.9	2177.7	2114.7	2107.1	2103.3	2061.3	2076.5	2068.9	2030.7
15°	2679.6	2481.2	2313.2	2215.9	2162.4	2128.1	2078.4	2070.8	2061.3	2042.2	2025.0
17.5°	2834.2	2576.6	2349.5	2227.3	2147.2	2122.3	2084.2	2044.1	2015.5	2019.3	2005.9
20°	2965.9	2664.4	2362.8	2238.8	2135.7	2088.0	2028.8	2004.0	1973.5	1971.6	1969.7
22.5°	3122.4	2782.7	2381.9	2208.2	2101.3	2051.7	2011.6	1967.7	1946.8	1920.0	1933.4
25°	3309.5	2828.5	2385.7	2191.0	2076.5	1988.7	1967.7	1920.0	1912.4	1874.2	1881.9
27.5°	3445.0	2853.3	2355.2	2137.6	2019.3	1952.5	1914.3	1880.0	1866.6	1838.0	1830.3
30°	3626.3	2891.5	2290.3	2070.8	1962.0	1887.6	1864.7	1857.0	1818.9	1788.3	1784.5
32.5°	3832.4	2916.3	2248.3	2002.1	1902.9	1845.6	1857.0	1820.8	1773.1	1746.4	1738.7
35°	3996.6	2925.9	2143.3	1923.8	1862.8	1826.5	1813.2	1805.5	1736.8	1712.0	1692.9
37.5°	4246.6	2904.9	2055.5	1868.5	1818.9	1805.5	1794.1	1742.5	1664.3	1628.0	1601.3
40°	4538.6	2899.1	1942.9	1790.2	1776.9	1792.2	1757.8	1677.6	1568.9	1528.8	1509.7
42.5°	4819.2	2939.2	1872.3	1748.3	1731.1	1736.8	1689.1	1568.9	1515.4	1492.5	1462.0
45°	5288.7	3023.2	1755.9	1683.4	1675.7	1671.9	1614.7	1488.7	1458.2	1429.5	1423.8
47.5°	5712.4	2967.8	1681.5	1616.6	1624.2	1603.2	1481.1	1441.0	1406.6	1378.0	1368.5
50°	5737.2	2836.1	1576.5	1565.0	1566.9	1530.7	1414.3	1387.5	1343.6	1324.6	1311.2
52.5°	5607.4	2620.5	1479.1	1483.0	1488.7	1429.5	1332.2	1313.1	1276.8	1250.1	1242.5
55°	5242.9	2284.6	1383.7	1399.0	1414.3	1301.7	1271.1	1223.4	1194.8	1156.6	1158.5
57.5°	4618.8	1839.9	1250.1	1274.9	1307.4	1183.3	1160.4	1101.3	1059.3	1028.7	1024.9
60°	3095.7	1309.3	1049.7	1059.3	1131.8	1082.2	1080.3	1021.1	963.8	937.1	921.8
62.5°	1826.5	1000.1	906.6	897.0	895.1	923.8	971.5	950.5	876.0	824.5	839.8
65°	956.2	864.6	843.6	811.1	792.1	784.4	820.7	830.2	780.6	725.3	721.4
67.5°	803.5	803.5	786.3	774.9	748.2	715.7	692.8	662.3	654.6	639.4	620.3
70°	731.0	750.1	744.3	717.6	694.7	658.5	599.3	549.7	502.0	484.8	496.2
72.5°	637.5	656.6	656.6	643.2	612.7	557.3	500.0	442.8	402.7	372.2	368.4
75°	490.5	500.0	523.0	507.7	467.6	433.2	374.1	314.9	276.7	248.1	242.4
77.5°	313.0	328.3	328.3	326.4	297.7	265.3	227.1	185.1	156.5	135.5	129.8
80°	208.0	217.6	225.2	217.6	198.5	173.7	145.1	116.4	95.4	78.3	74.4
82.5°	152.7	164.1	169.9	162.2	143.1	124.1	103.1	82.1	61.1	47.7	43.9
85°	59.2	61.1	68.7	82.1	80.2	78.3	63.0	45.8	34.4	24.8	22.9
87.5°	15.3	13.4	15.3	15.3	13.4	11.5	11.5	11.5	11.5	5.7	7.6
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)