

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: P533549

Luminaire Tested: **GALN-SA9A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21087 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

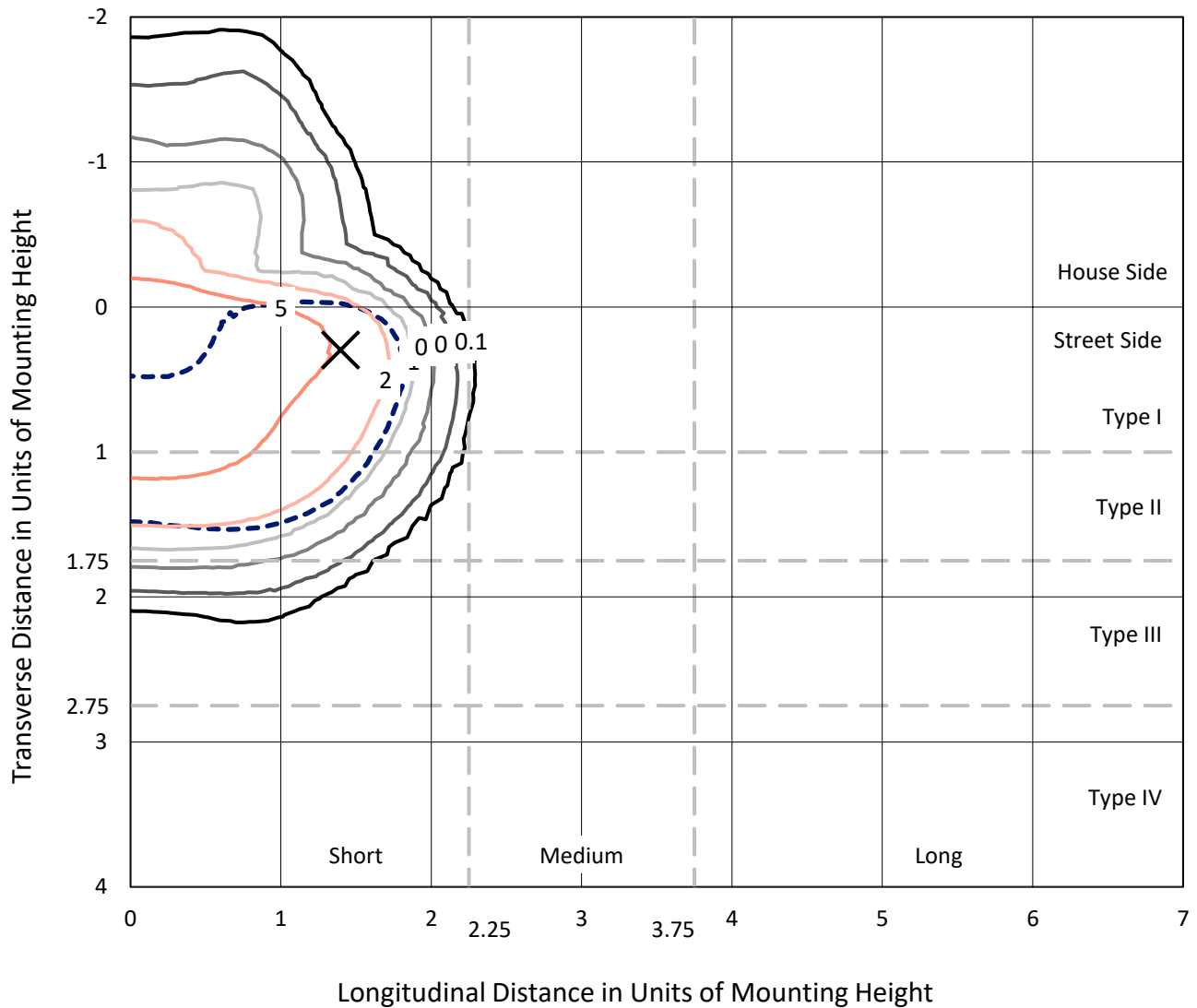
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

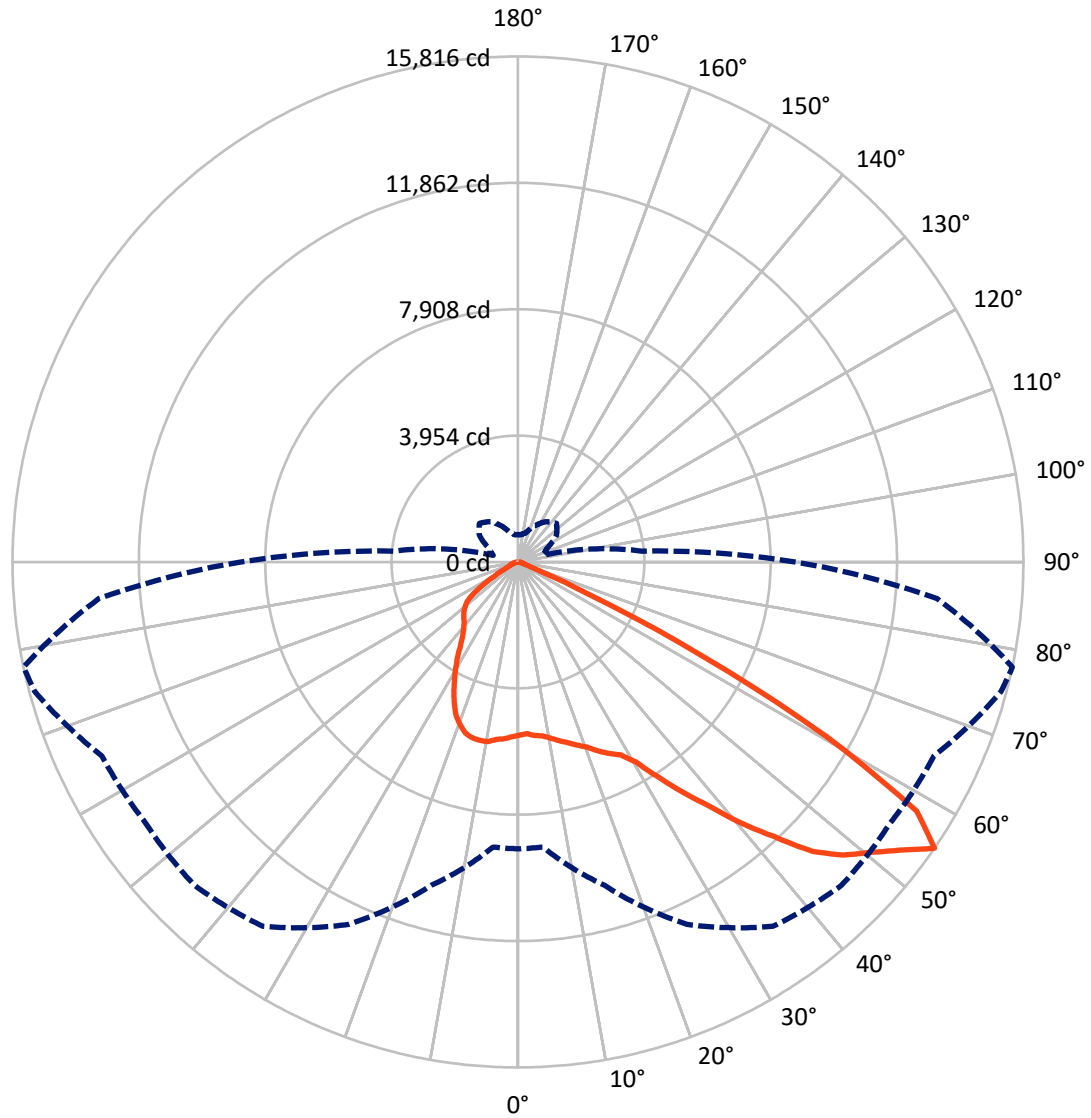
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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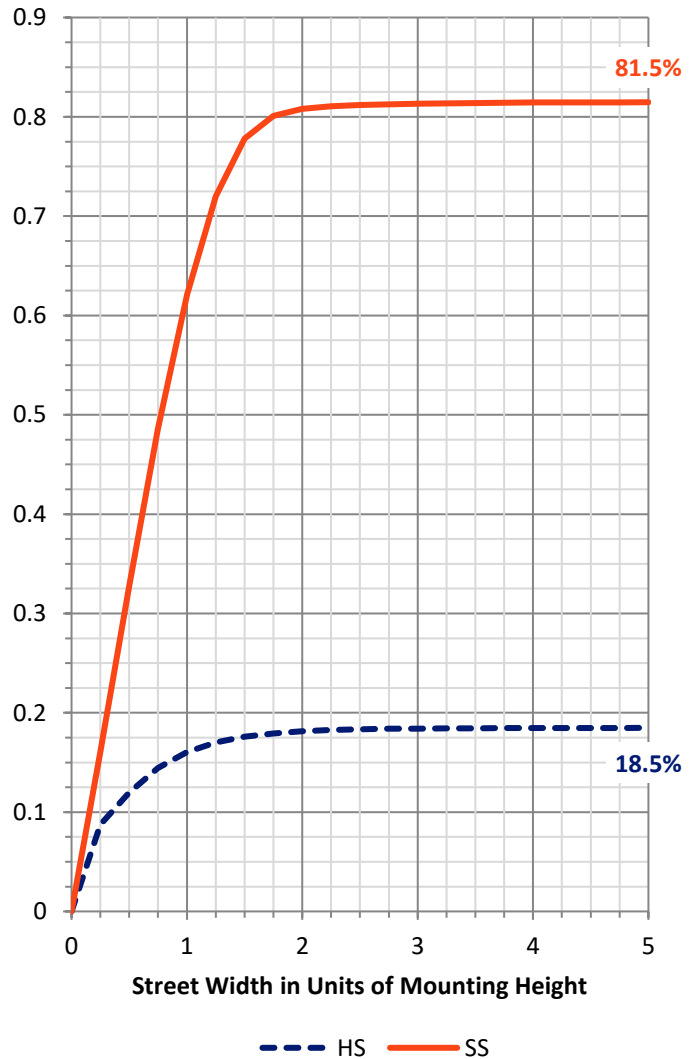
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3916.7	0.0	3916.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17170.3	0.0	17170.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	21087.0	0.0	21087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.4	2.3
10°-20°	1279.4	6.1
20°-30°	2242.5	10.6
30°-40°	3697.7	17.5
40°-50°	5380.6	25.5
50°-60°	6096.7	28.9
60°-70°	1743.2	8.3
70°-80°	135.4	0.6
80°-90°	28.2	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°	21087.0	100.0
0°-180°	21087.0	100.0

Coefficient of Utilization



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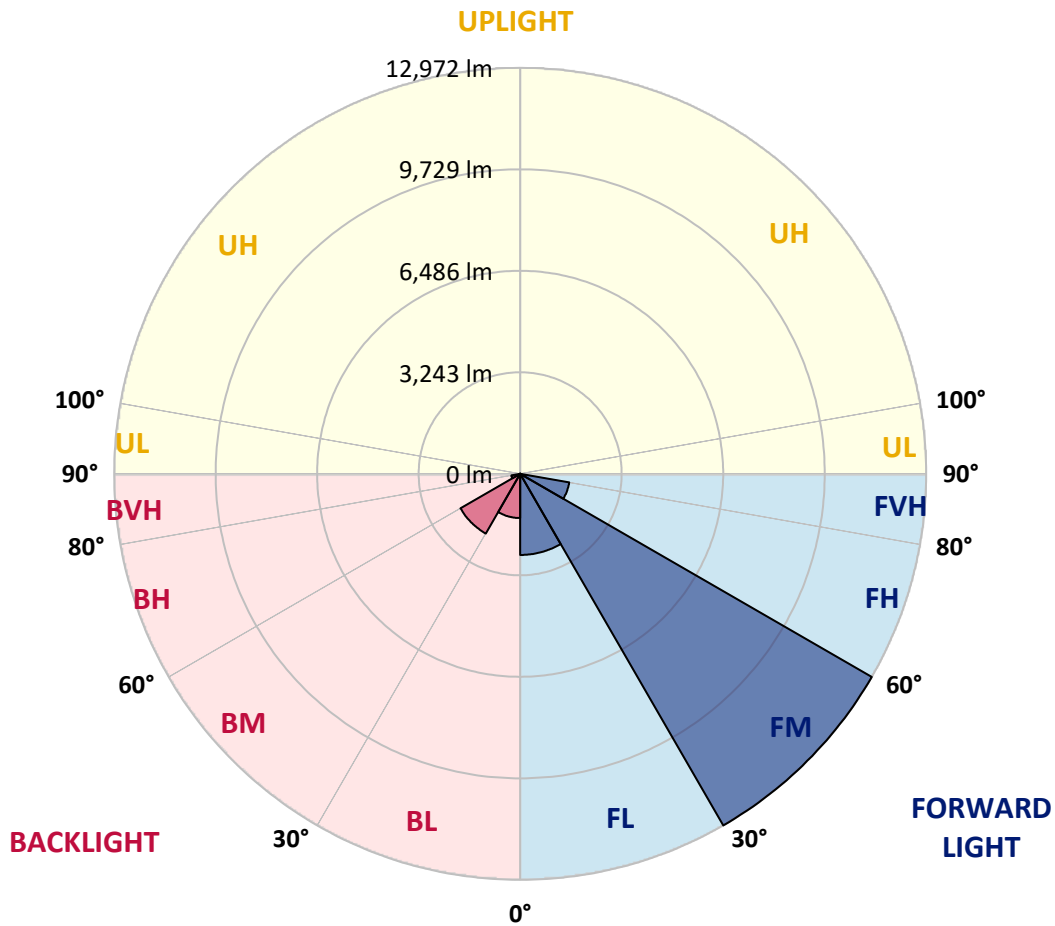
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.2	12.3			
FM (30°-60°)	12971.8	61.5			
FH (60°-80°)	1592.6	7.6			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1413.1	6.7	B3/2500		
BM (30°-60°)	2203.2	10.4	B2/2500		
BH (60°-80°)	285.9	1.4	B1/500		G1/500
BVH (80°-90°)	14.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5
2.5°	5097.2	5146.3	5153.8	5214.1	5210.4	5312.1	5342.3	5346.1	5413.9	5380.0	5466.7
5°	4954.0	4927.6	4916.3	5021.8	5052.0	5142.5	5217.9	5263.1	5402.6	5451.6	5542.1
7.5°	4825.8	4825.8	4833.3	4927.6	4916.3	5033.2	5112.3	5251.8	5455.4	5496.9	5606.2
10°	4701.4	4656.1	4712.7	4810.7	4893.7	4946.4	5112.3	5244.3	5481.8	5602.4	5753.3
12.5°	4637.3	4659.9	4667.4	4739.1	4829.6	4987.9	5078.4	5297.1	5670.3	5741.9	5904.1
15°	5040.7	4995.5	4886.1	4822.0	4897.4	4972.8	5199.0	5421.5	5768.3	5870.1	6051.1
17.5°	5508.2	5470.5	5380.0	5206.6	5036.9	5176.4	5353.6	5557.2	5873.9	6024.7	6292.4
20°	6119.0	6058.6	5968.2	5628.8	5481.8	5331.0	5519.5	5760.8	6047.3	6183.1	6458.3
22.5°	6846.6	6846.6	6643.0	6232.1	5926.7	5783.4	5862.6	6002.1	6239.6	6424.3	6695.8
25°	7604.4	7581.8	7397.0	6971.0	6454.5	6284.8	6375.3	6473.4	6537.4	6639.2	6820.2
27.5°	8471.5	8339.6	8105.8	7634.6	7178.4	6850.4	6948.4	6861.7	6782.5	6835.3	7095.4
30°	9059.7	9142.6	8844.8	8392.4	7962.6	7596.9	7615.7	7540.3	7178.4	7253.8	7408.4
32.5°	9670.4	9723.2	9557.3	9308.5	8878.7	8452.7	8298.1	8234.0	7962.6	7996.5	7845.7
35°	10179.4	10281.2	10134.2	10024.8	9900.4	9557.3	9131.3	9338.7	8901.3	8818.4	8426.3
37.5°	10646.9	10616.8	10790.2	10677.1	10650.7	10409.4	9941.9	9983.4	9689.3	9670.4	9218.0
40°	11065.4	11072.9	11310.5	11363.2	11257.7	10827.9	10149.3	10477.3	10714.8	10737.4	10156.8
42.5°	11412.3	11514.0	11717.6	12143.7	11985.3	11269.0	10364.2	10722.3	11604.5	11744.0	11046.5
45°	11713.9	11921.2	12173.8	12554.6	12464.1	11894.8	10899.5	11227.5	12554.6	12920.3	11883.5
47.5°	11732.7	12004.2	12279.4	12844.9	12958.0	12230.4	11453.7	12026.8	13308.6	13704.5	12494.3
50°	11657.3	11800.6	12351.0	12965.6	13221.9	12777.0	12230.4	12697.9	14040.0	14288.9	12803.4
52.5°	10763.8	10873.1	11977.8	13078.7	13697.0	13395.4	13259.6	13632.9	14786.5	14971.3	13093.7
55°	8973.0	8954.1	10473.5	12509.4	13915.6	14311.5	14228.6	14360.5	15649.9	15815.8	13165.4
57.5°	6137.8	6480.9	7792.9	10416.9	12577.2	14096.6	14183.3	13964.6	14643.3	14707.4	11476.3
60°	3310.2	3453.5	4509.1	6952.2	9576.2	11487.7	11713.9	11318.0	11265.2	11084.2	8192.5
62.5°	1315.8	1387.4	1986.9	3442.1	5217.9	6982.3	7468.7	7306.6	6959.7	6484.7	4241.4
65°	625.8	671.1	987.8	1609.9	2314.9	2910.6	3396.9	3547.7	2616.5	2356.3	1398.7
67.5°	426.0	460.0	720.1	919.9	825.7	863.4	1123.5	1044.3	614.5	524.1	388.3
70°	324.2	346.9	576.8	625.8	369.5	260.1	290.3	271.5	252.6	256.4	252.6
72.5°	230.0	248.8	422.3	369.5	162.1	120.6	154.6	184.7	184.7	184.7	181.0
75°	139.5	158.3	245.1	143.3	64.1	64.1	98.0	124.4	132.0	135.7	128.2
77.5°	71.6	90.5	82.9	41.5	41.5	49.0	71.6	86.7	94.3	94.3	90.5
80°	15.1	15.1	15.1	22.6	41.5	52.8	71.6	79.2	90.5	90.5	82.9
82.5°	0.0	3.8	11.3	22.6	37.7	49.0	67.9	79.2	90.5	94.3	86.7
85°	0.0	3.8	7.5	15.1	26.4	30.2	26.4	22.6	22.6	22.6	22.6
87.5°	0.0	0.0	3.8	3.8	3.8	7.5	7.5	7.5	7.5	7.5	7.5
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°	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5	5421.5
2.5°	5474.3	5485.6	5466.7	5463.0	5447.9	5493.1	5383.8	5357.4	5425.3	5361.2	5376.2
5°	5545.9	5572.3	5538.4	5481.8	5398.9	5270.7	5161.3	5018.1	4950.2	4901.2	4893.7
7.5°	5598.7	5617.5	5583.6	5402.6	5153.8	4829.6	4588.3	4411.1	4271.6	4230.1	4162.2
10°	5813.6	5817.3	5647.7	5248.1	4761.7	4335.7	3966.2	3694.7	3555.3	3468.5	3430.8
12.5°	5956.8	5949.3	5606.2	4942.7	4294.2	3728.7	3306.4	2978.4	2850.2	2808.8	2782.4
15°	6137.8	6096.3	5508.2	4629.7	3691.0	3080.2	2699.4	2473.2	2461.9	2435.5	2461.9
17.5°	6281.1	6164.2	5364.9	4060.5	3114.1	2537.3	2288.5	2303.6	2333.7	2360.1	2363.9
20°	6514.8	6273.5	5036.9	3562.8	2578.8	2175.4	2171.6	2239.5	2314.9	2345.0	2375.2
22.5°	6692.0	6318.8	4686.3	3031.2	2141.4	2028.3	2092.4	2194.2	2250.8	2280.9	2326.2
25°	6756.1	6194.4	4218.8	2499.6	1930.3	1960.5	2058.5	2126.4	2198.0	2231.9	2213.1
27.5°	6820.2	6130.3	3660.8	2058.5	1817.2	1915.2	1998.2	2066.0	2088.7	2133.9	2164.1
30°	6974.8	5907.8	3159.4	1779.5	1760.7	1885.1	1945.4	1968.0	2028.3	2054.7	2054.7
32.5°	7099.2	5821.1	2627.8	1647.6	1753.1	1900.2	1907.7	1907.7	1915.2	1896.4	1888.8
35°	7355.6	5523.3	2152.8	1568.4	1749.4	1903.9	1922.8	1858.7	1685.3	1617.4	1598.5
37.5°	7672.3	5331.0	1802.1	1549.5	1775.7	1949.2	1979.3	1738.0	1511.8	1402.5	1383.6
40°	8056.8	5195.3	1572.2	1542.0	1836.1	2054.7	1964.2	1643.8	1349.7	1191.4	1183.8
42.5°	8505.5	5070.9	1417.6	1538.2	1911.5	2164.1	1949.2	1564.6	1183.8	1078.3	1093.3
45°	8863.6	5003.0	1312.0	1511.8	1937.9	2228.2	1960.5	1425.1	1116.0	1048.1	1055.6
47.5°	9142.6	4859.7	1225.3	1466.6	1934.1	2250.8	1858.7	1368.6	1082.0	1100.9	1119.7
50°	9150.2	4667.4	1116.0	1368.6	1877.5	2209.3	1741.8	1315.8	1074.5	1153.7	1191.4
52.5°	9048.4	4396.0	999.1	1229.1	1745.6	2066.0	1636.2	1293.2	1040.6	1033.0	1078.3
55°	8686.4	3887.0	803.0	995.3	1474.1	1704.1	1542.0	1251.7	938.8	852.1	859.6
57.5°	7020.0	2786.1	591.9	712.6	1044.3	1247.9	1391.2	1232.8	844.5	723.9	727.6
60°	4347.0	1579.7	433.6	486.3	644.7	757.8	1127.3	1146.1	754.0	610.8	603.2
62.5°	2231.9	780.4	335.5	343.1	395.9	444.9	772.9	961.4	682.4	580.6	580.6
65°	746.5	384.6	294.1	263.9	263.9	275.2	467.5	667.3	576.8	486.3	486.3
67.5°	320.5	286.5	256.4	230.0	211.1	199.8	263.9	388.3	429.8	369.5	354.4
70°	248.8	241.3	222.4	192.3	165.9	150.8	154.6	199.8	245.1	237.5	230.0
72.5°	184.7	184.7	177.2	150.8	128.2	109.3	101.8	105.6	116.9	120.6	124.4
75°	128.2	132.0	132.0	116.9	94.3	79.2	67.9	56.6	45.2	37.7	33.9
77.5°	86.7	90.5	98.0	86.7	71.6	52.8	41.5	30.2	18.9	7.5	7.5
80°	75.4	86.7	94.3	86.7	75.4	56.6	41.5	22.6	11.3	0.0	0.0
82.5°	79.2	86.7	98.0	82.9	71.6	52.8	41.5	26.4	11.3	3.8	0.0
85°	18.9	18.9	22.6	26.4	33.9	37.7	30.2	18.9	11.3	3.8	0.0
87.5°	7.5	7.5	7.5	7.5	7.5	3.8	3.8	3.8	3.8	0.0	0.0
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)