

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: P531673

Luminaire Tested: **GALN-SA7A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17618 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

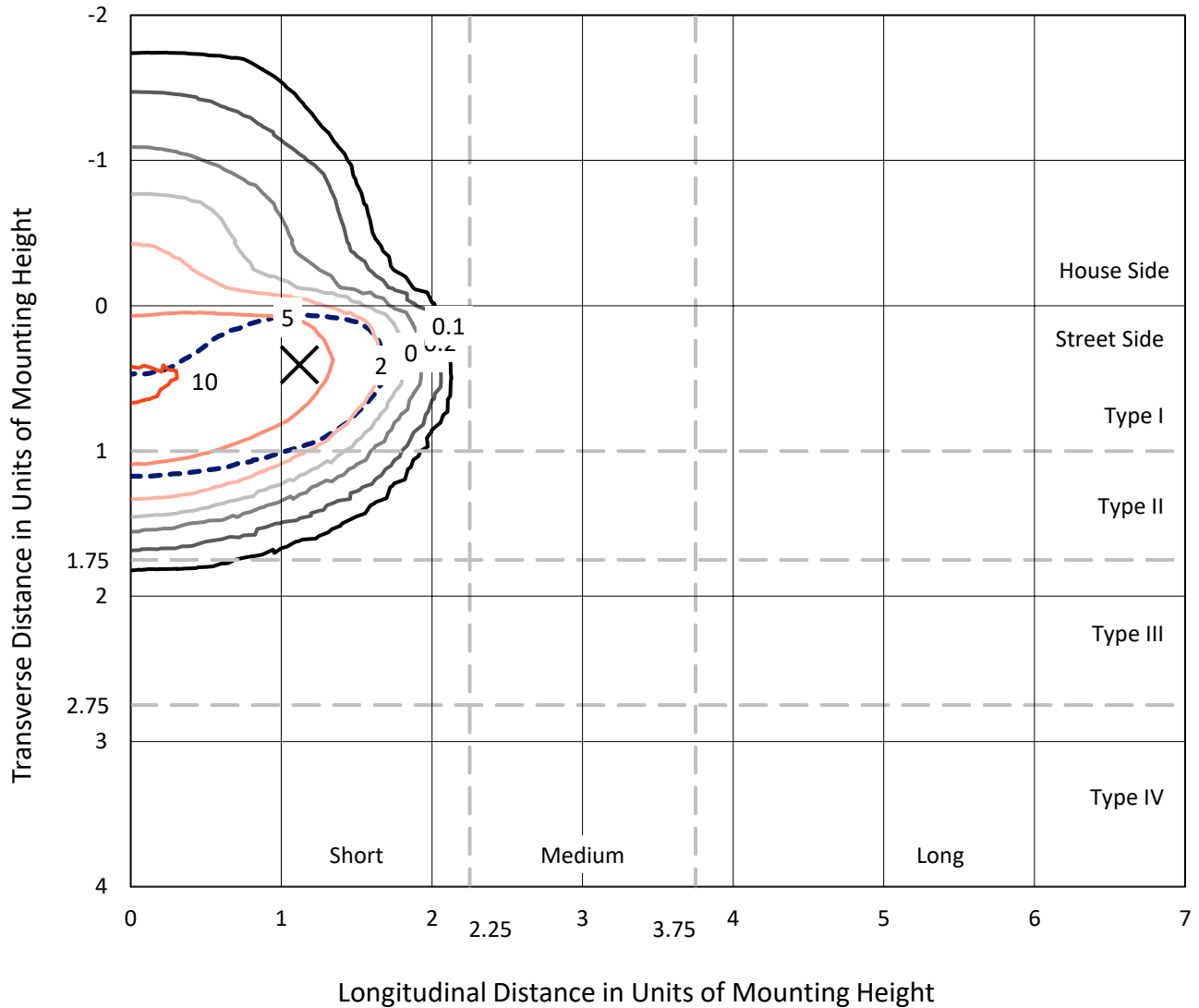
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531673
 CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

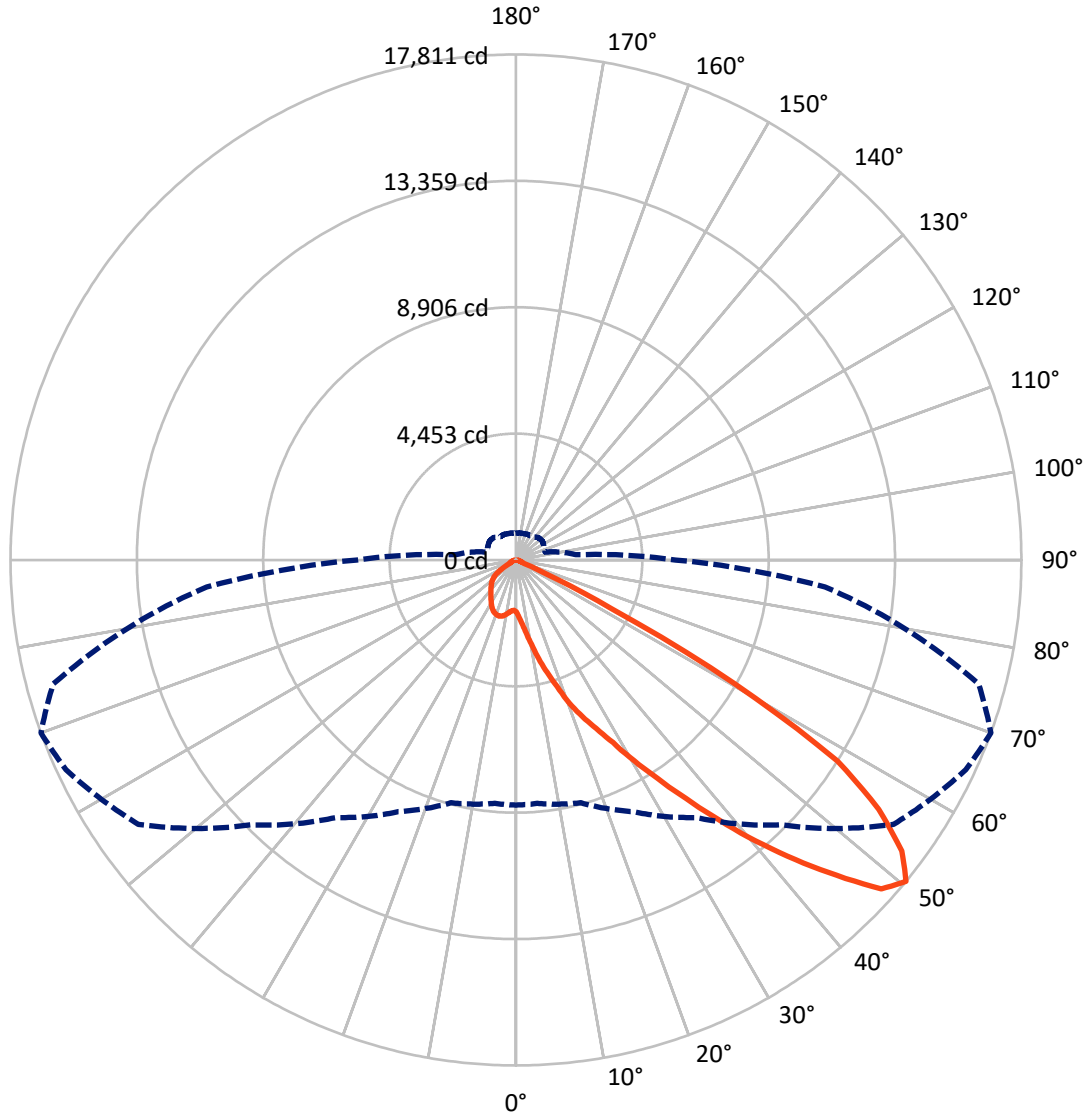
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

REPORT NUMBER: P531673
CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P531673
 CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

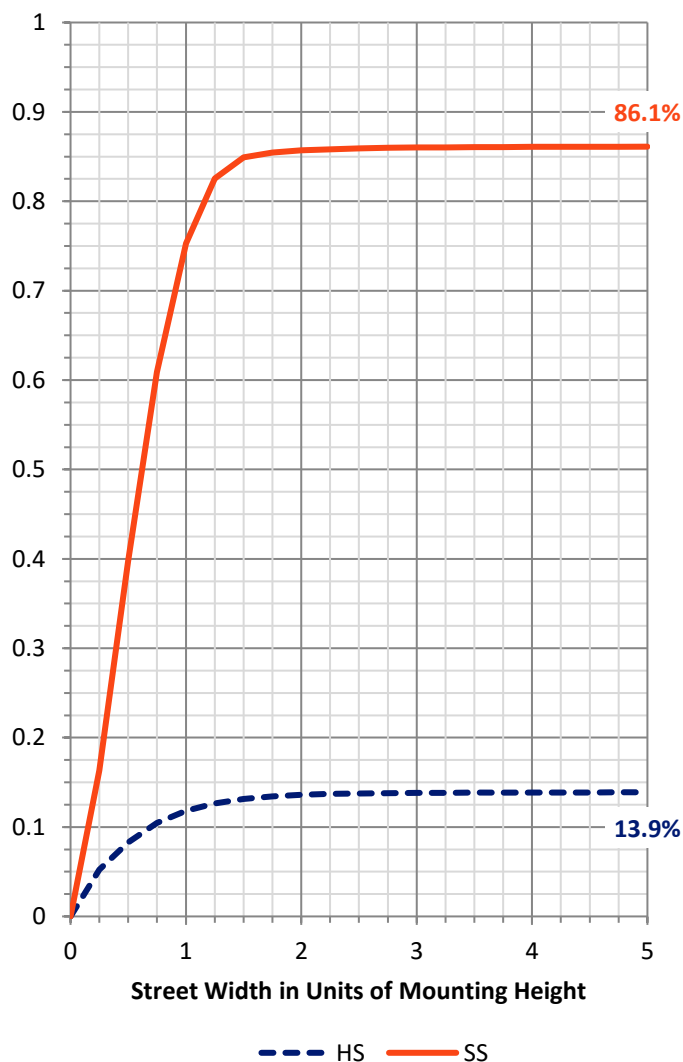
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.5	0.0	2460.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15157.5	0.0	15157.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	17618.0	0.0	17618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.3
10°-20°	1026.5	5.8
20°-30°	2153.4	12.2
30°-40°	3711.7	21.1
40°-50°	5424.6	30.8
50°-60°	4224.9	24.0
60°-70°	715.8	4.1
70°-80°	98.3	0.6
80°-90°	25.5	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°	17618.0	100.0
0°-180°	17618.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531673

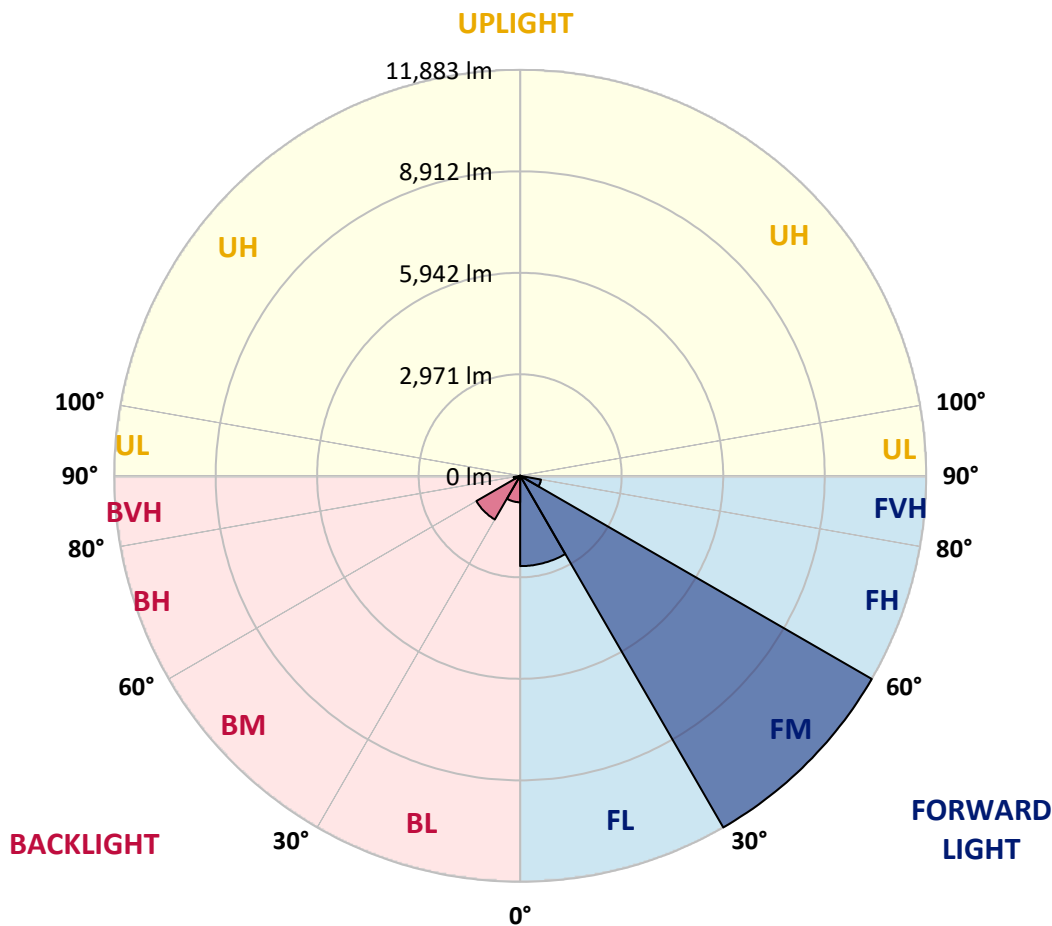
CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.9	15.0			
FM (30°-60°)	11883.0	67.4			
FH (60°-80°)	619.8	3.5			G0/660
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	774.2	4.4	B2/1000		
BM (30°-60°)	1478.2	8.4	B2/2500		
BH (60°-80°)	194.4	1.1	B1/500		G1/500
BVH (80°-90°)	13.7	0.1			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 I Short





REPORT NUMBER: P531673

CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9
2.5°	2389.7	2372.3	2334.7	2265.2	2236.2	2166.7	2126.1	2047.9	1998.7	1943.6	1882.8
5°	3365.9	3276.1	3221.1	3142.8	2914.0	2772.1	2537.4	2337.6	2244.9	2143.5	2004.5
7.5°	4373.9	4316.0	4240.7	4072.7	3916.2	3620.8	3218.2	2777.9	2589.6	2415.8	2140.6
10°	5208.1	5045.9	5037.2	4912.7	4741.8	4388.4	3904.7	3357.2	3021.2	2766.3	2334.7
12.5°	5790.4	5642.6	5709.3	5694.8	5535.5	5211.0	4652.0	3927.8	3577.3	3180.5	2534.6
15°	6320.5	6259.6	6239.3	6222.0	6158.2	5917.8	5416.7	4623.0	4116.1	3638.2	2760.5
17.5°	6838.9	6682.5	6757.8	6772.3	6766.5	6549.3	6080.0	5283.5	4686.7	4121.9	2998.0
20°	7299.5	7314.0	7212.6	7192.3	7175.0	7166.3	6708.6	5938.1	5387.7	4628.8	3308.0
22.5°	7890.4	7789.0	7878.8	7820.9	7707.9	7638.4	7287.9	6517.4	5996.0	5240.0	3623.7
25°	8588.5	8669.6	8458.2	8435.0	8310.4	8070.0	7754.3	7166.3	6581.1	5807.7	3965.5
27.5°	9448.8	9306.9	9251.8	9124.4	8898.5	8797.1	8426.3	7835.4	7287.9	6404.5	4295.7
30°	10187.5	10149.8	9874.6	9724.0	9527.0	9524.1	9005.6	8742.0	8209.1	7340.1	4750.5
32.5°	10790.0	10624.8	10523.5	10419.2	10259.9	10303.3	9865.9	9726.9	9191.0	8209.1	5286.4
35°	11192.6	11073.8	11013.0	10853.7	10807.3	11001.4	10818.9	10761.0	10320.7	9431.4	5914.9
37.5°	11320.0	11357.7	11346.1	11146.2	11244.7	11769.0	12003.6	11853.0	11621.3	10720.4	6595.6
40°	11433.0	11459.1	11401.1	11635.8	11916.7	12513.4	13362.2	13113.1	13026.2	12026.8	7542.8
42.5°	11496.7	11476.5	11476.5	11882.0	12307.8	13507.0	14674.3	14509.2	14442.6	13417.2	8637.8
45°	11221.6	11024.6	11236.0	11786.4	12643.8	13996.5	15722.9	15951.7	15856.2	15071.2	9918.1
47.5°	10193.2	10314.9	10433.7	11169.4	12235.4	13845.9	16366.0	17145.2	17321.9	16461.6	10758.1
50°	8637.8	8611.7	8857.9	9784.8	11079.6	13197.1	16241.4	17489.9	17811.4	16878.7	10934.8
52.5°	6282.8	6474.0	6740.5	7661.6	9196.8	11517.0	14633.8	16600.6	17029.3	16366.0	10818.9
55°	3658.4	3447.0	4046.6	4825.8	6274.1	8687.0	12371.5	14714.9	15508.6	15433.3	10233.8
57.5°	1465.7	1419.3	1625.0	2189.9	3273.2	5384.8	8996.9	12090.5	13362.2	14135.6	8994.0
60°	643.1	628.6	738.6	892.2	1338.2	2482.4	4921.4	7519.7	8846.3	9877.5	6190.1
62.5°	463.5	457.7	512.7	567.7	706.8	1080.4	2068.2	3029.9	3777.2	4562.2	2772.1
65°	373.7	388.1	425.8	454.8	521.4	599.6	730.0	842.9	1034.1	1071.8	611.2
67.5°	304.1	315.7	350.5	382.4	393.9	324.4	336.0	295.5	295.5	263.6	211.5
70°	223.0	225.9	266.5	304.1	243.3	130.3	228.8	228.8	205.7	197.0	179.6
72.5°	165.1	168.0	199.9	188.3	95.6	81.1	168.0	185.4	168.0	159.3	144.8
75°	121.7	124.6	104.3	43.4	40.6	52.1	98.5	127.5	121.7	118.8	110.1
77.5°	23.2	17.4	14.5	20.3	29.0	43.4	63.7	78.2	81.1	86.9	81.1
80°	2.9	2.9	8.7	17.4	31.9	46.3	66.6	75.3	78.2	81.1	75.3
82.5°	0.0	2.9	8.7	17.4	31.9	43.4	57.9	66.6	72.4	75.3	72.4
85°	0.0	2.9	5.8	14.5	26.1	31.9	29.0	20.3	17.4	20.3	14.5
87.5°	0.0	0.0	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531673

CATALOG NUMBER: GALN-SA7A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9	1824.9
2.5°	1848.1	1836.5	1795.9	1752.5	1714.8	1732.2	1714.8	1700.3	1706.1	1700.3	1694.5
5°	1949.4	1897.3	1810.4	1772.7	1740.9	1738.0	1729.3	1726.4	1729.3	1729.3	1703.2
7.5°	2045.0	1961.0	1868.3	1827.8	1790.1	1793.0	1772.7	1772.7	1769.8	1755.4	1749.6
10°	2189.9	2076.9	1958.1	1885.7	1839.4	1830.7	1810.4	1790.1	1790.1	1790.1	1761.2
12.5°	2349.2	2207.2	2045.0	1961.0	1906.0	1862.5	1830.7	1824.9	1793.0	1787.2	1772.7
15°	2488.2	2308.6	2103.0	1987.1	1917.6	1859.6	1810.4	1778.5	1764.0	1755.4	1743.8
17.5°	2624.3	2395.5	2134.8	1987.1	1911.8	1845.2	1793.0	1764.0	1729.3	1735.1	1711.9
20°	2806.8	2488.2	2143.5	1949.4	1856.7	1793.0	1723.5	1709.0	1688.7	1671.4	1677.1
22.5°	2983.5	2554.8	2117.4	1903.1	1769.8	1694.5	1659.8	1642.4	1633.7	1619.2	1598.9
25°	3142.8	2627.2	2076.9	1819.1	1677.1	1622.1	1590.3	1587.4	1567.1	1567.1	1529.4
27.5°	3305.1	2653.3	2007.4	1720.6	1596.0	1564.2	1549.7	1543.9	1535.2	1514.9	1488.9
30°	3490.4	2662.0	1906.0	1619.2	1523.6	1488.9	1509.1	1523.6	1486.0	1448.3	1459.9
32.5°	3644.0	2641.7	1784.3	1523.6	1471.5	1454.1	1494.7	1509.1	1465.7	1425.1	1404.9
35°	3829.3	2592.5	1665.6	1448.3	1419.3	1454.1	1488.9	1488.9	1402.0	1352.7	1341.1
37.5°	4110.3	2537.4	1555.5	1384.6	1364.3	1436.7	1483.1	1451.2	1315.1	1254.2	1239.8
40°	4411.6	2502.7	1448.3	1320.9	1335.3	1407.8	1433.8	1335.3	1196.3	1158.7	1147.1
42.5°	4849.0	2433.2	1352.7	1265.8	1309.3	1367.2	1367.2	1190.5	1138.4	1118.1	1115.2
45°	5393.5	2383.9	1268.7	1219.5	1271.6	1286.1	1239.8	1115.2	1077.5	1071.8	1074.7
47.5°	5660.0	2288.3	1181.8	1164.4	1202.1	1205.0	1083.3	1054.4	1022.5	1013.8	1008.0
50°	5619.5	2117.4	1068.9	1092.0	1144.2	1115.2	987.8	993.5	964.6	961.7	947.2
52.5°	5335.6	1848.1	955.9	1010.9	1068.9	984.9	909.5	903.7	903.7	866.1	851.6
55°	4730.2	1488.9	819.7	889.3	958.8	828.4	808.2	802.4	787.9	753.1	744.4
57.5°	3745.3	1092.0	617.0	692.3	814.0	703.9	701.0	674.9	637.3	611.2	611.2
60°	2227.5	628.6	388.1	422.9	538.8	570.6	634.4	622.8	559.0	518.5	506.9
62.5°	1016.7	324.4	246.2	252.0	289.7	370.8	498.2	576.4	486.6	417.1	411.3
65°	341.8	240.4	202.8	194.1	199.9	223.0	298.4	408.4	388.1	321.5	309.9
67.5°	208.6	214.4	191.2	176.7	176.7	173.8	170.9	185.4	228.8	223.0	225.9
70°	179.6	197.0	176.7	159.3	153.5	144.8	121.7	101.4	86.9	101.4	107.2
72.5°	144.8	156.4	150.6	136.1	121.7	110.1	86.9	66.6	49.2	43.4	43.4
75°	107.2	115.9	121.7	104.3	92.7	78.2	63.7	43.4	26.1	17.4	17.4
77.5°	78.2	86.9	89.8	81.1	69.5	55.0	40.6	29.0	14.5	5.8	5.8
80°	66.6	78.2	86.9	81.1	72.4	52.1	37.7	20.3	11.6	2.9	2.9
82.5°	63.7	78.2	86.9	78.2	69.5	49.2	37.7	23.2	8.7	2.9	2.9
85°	14.5	20.3	26.1	31.9	37.7	37.7	29.0	17.4	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	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)