

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: P530169

Luminaire Tested: **GALN-SA5B-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530169
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-SA5B-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA 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: 17331 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

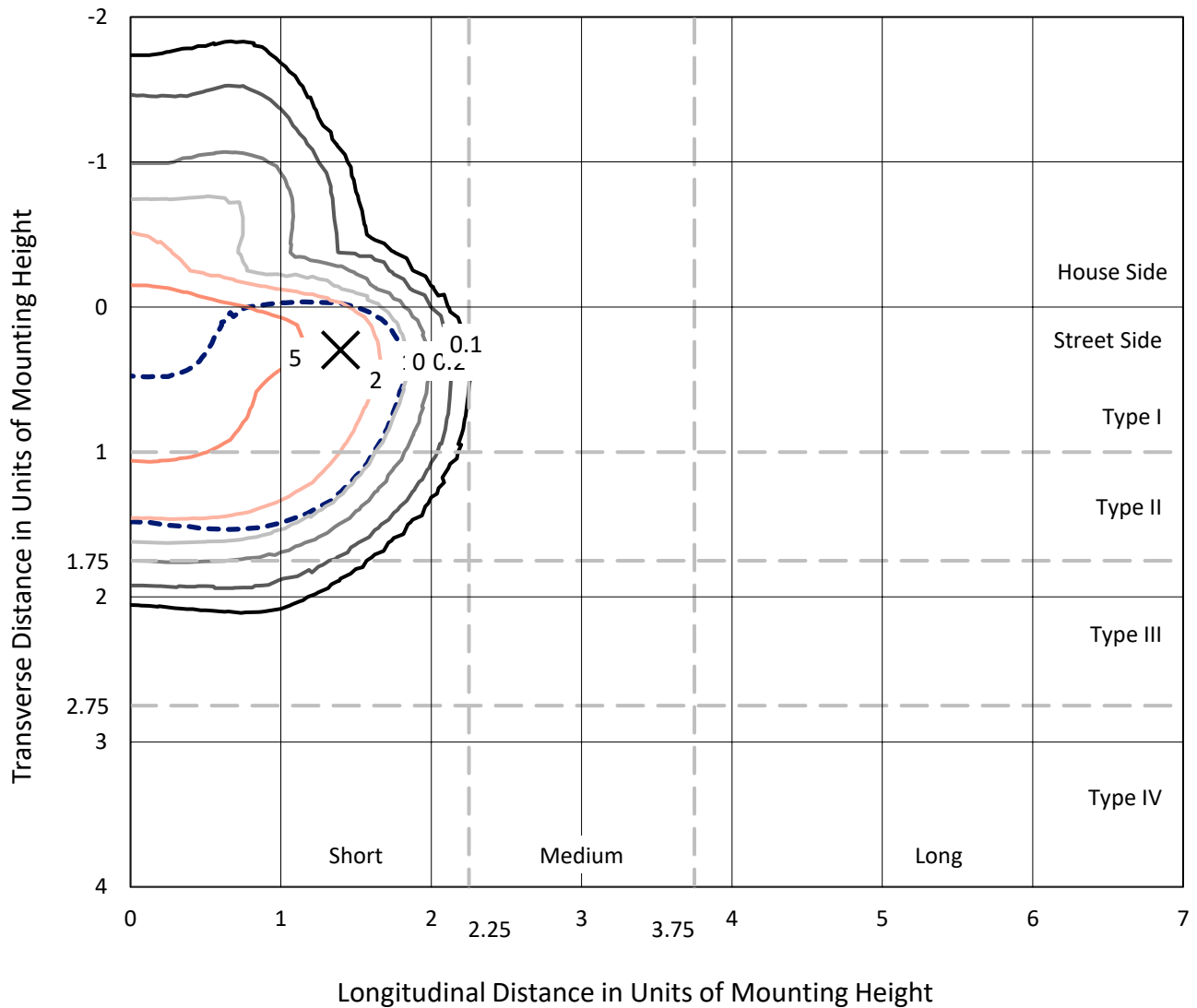
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

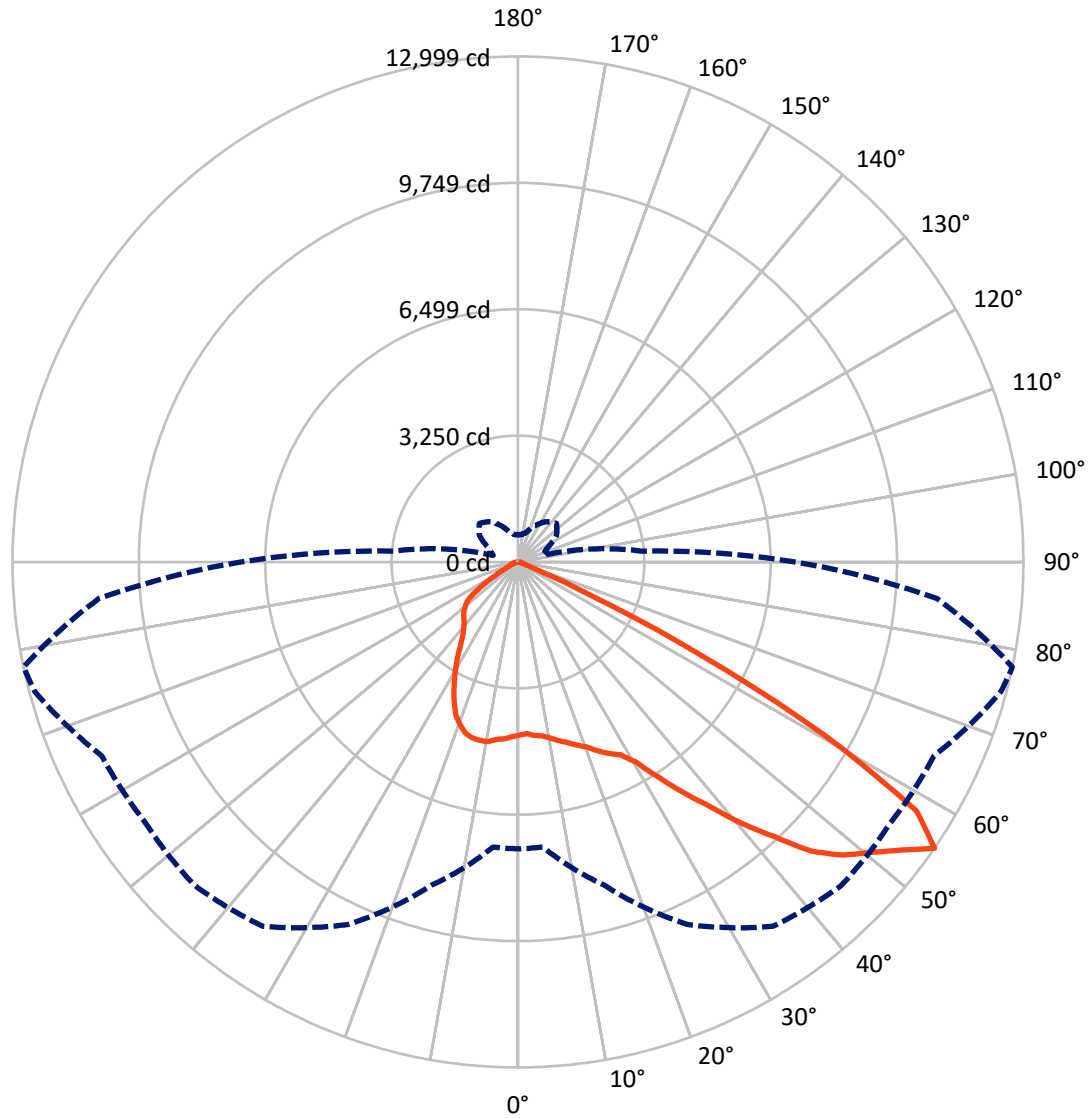
✕ Max cd
 - - - 1/2 Max cd



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

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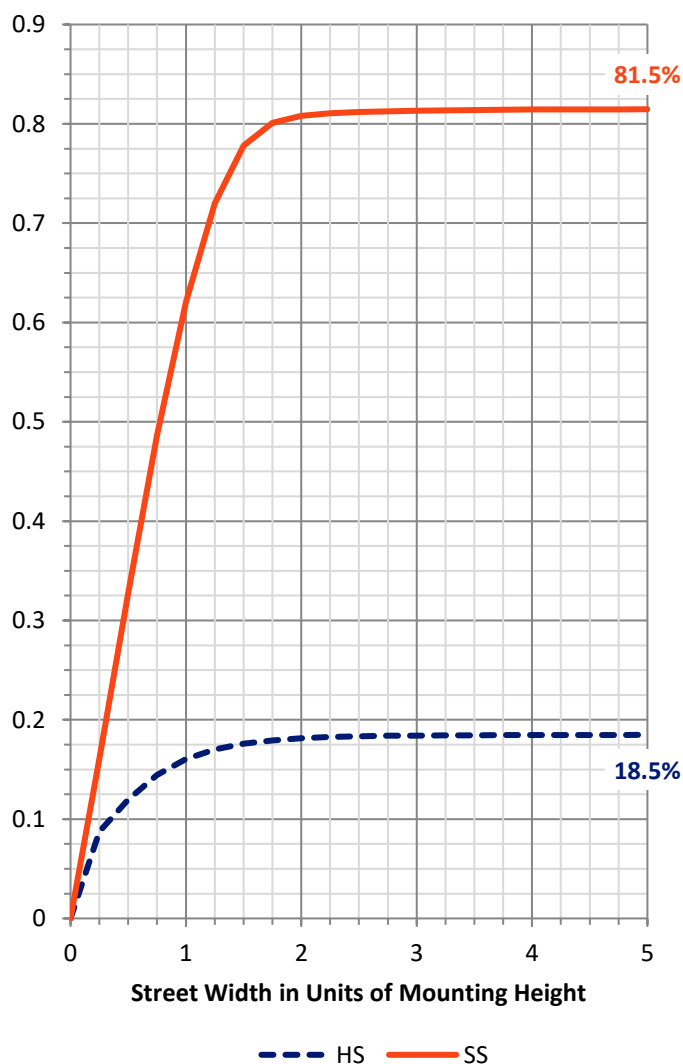
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3219.1	0.0	3219.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14112.0	0.0	14112.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	17331.0	0.0	17331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	2.3
10°-20°	1051.5	6.1
20°-30°	1843.1	10.6
30°-40°	3039.0	17.5
40°-50°	4422.2	25.5
50°-60°	5010.8	28.9
60°-70°	1432.7	8.3
70°-80°	111.3	0.6
80°-90°	23.2	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°	17331.0	100.0
0°-180°	17331.0	100.0

Coefficient of Utilization



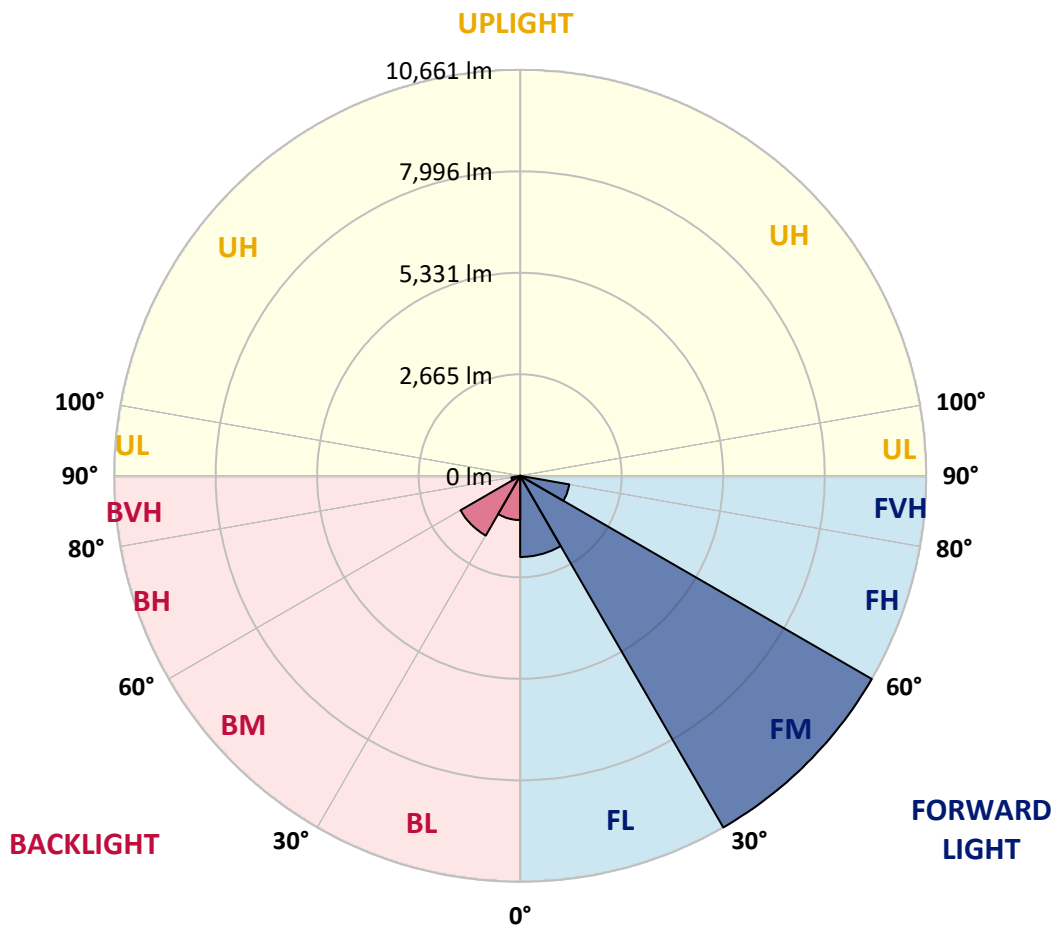
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.5	12.3			
FM (30°-60°)	10661.3	61.5			
FH (60°-80°)	1309.0	7.6			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	1161.4	6.7	B3/2500		
BM (30°-60°)	1810.8	10.4	B2/2500		
BH (60°-80°)	235.0	1.4	B1/500		G1/500
BVH (80°-90°)	11.9	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°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4189.3	4229.6	4235.8	4285.4	4282.3	4366.0	4390.7	4393.8	4449.6	4421.7	4493.0
5°	4071.6	4049.9	4040.6	4127.4	4152.1	4226.5	4288.5	4325.7	4440.3	4480.6	4555.0
7.5°	3966.2	3966.2	3972.4	4049.9	4040.6	4136.7	4201.7	4316.4	4483.7	4517.8	4607.6
10°	3864.0	3826.8	3873.3	3953.8	4022.0	4065.4	4201.7	4310.2	4505.4	4604.5	4728.5
12.5°	3811.3	3829.9	3836.1	3895.0	3969.3	4099.5	4173.8	4353.6	4660.3	4719.2	4852.4
15°	4142.9	4105.7	4015.8	3963.1	4025.1	4087.1	4273.0	4455.8	4740.9	4824.5	4973.3
17.5°	4527.1	4496.1	4421.7	4279.2	4139.8	4254.4	4400.0	4567.4	4827.6	4951.6	5171.6
20°	5029.1	4979.5	4905.1	4626.2	4505.4	4381.4	4536.4	4734.7	4970.2	5081.7	5307.9
22.5°	5627.1	5627.1	5459.8	5122.0	4871.0	4753.3	4818.3	4933.0	5128.2	5280.0	5503.1
25°	6249.9	6231.3	6079.5	5729.3	5304.8	5165.4	5239.8	5320.3	5373.0	5456.7	5605.4
27.5°	6962.6	6854.1	6662.0	6274.7	5899.8	5630.2	5710.7	5639.5	5574.4	5617.8	5831.6
30°	7446.0	7514.1	7269.4	6897.5	6544.3	6243.7	6259.2	6197.2	5899.8	5961.7	6088.8
32.5°	7948.0	7991.3	7855.0	7650.5	7297.2	6947.1	6820.1	6767.4	6544.3	6572.2	6448.2
35°	8366.3	8449.9	8329.1	8239.2	8137.0	7855.0	7504.8	7675.3	7315.8	7247.7	6925.4
37.5°	8750.5	8725.7	8868.2	8775.3	8753.6	8555.3	8171.1	8205.1	7963.4	7948.0	7576.1
40°	9094.4	9100.6	9295.8	9339.2	9252.5	8899.2	8341.5	8611.1	8806.3	8824.9	8347.7
42.5°	9379.5	9463.2	9630.5	9980.6	9850.5	9261.8	8518.1	8812.5	9537.5	9652.2	9078.9
45°	9627.4	9797.8	10005.4	10318.4	10244.0	9776.1	8958.1	9227.7	10318.4	10619.0	9766.8
47.5°	9642.9	9866.0	10092.2	10557.0	10649.9	10051.9	9413.6	9884.6	10938.1	11263.5	10268.8
50°	9580.9	9698.7	10151.1	10656.1	10866.8	10501.2	10051.9	10436.1	11539.2	11743.8	10522.9
52.5°	8846.5	8936.4	9844.3	10749.1	11257.3	11009.4	10897.8	11204.6	12152.8	12304.6	10761.5
55°	7374.7	7359.2	8608.0	10281.2	11437.0	11762.3	11694.2	11802.6	12862.4	12998.7	10820.4
57.5°	5044.5	5326.5	6404.8	8561.5	10337.0	11585.7	11657.0	11477.3	12035.0	12087.7	9432.2
60°	2720.6	2838.3	3705.9	5713.8	7870.5	9441.5	9627.4	9302.0	9258.7	9109.9	6733.3
62.5°	1081.4	1140.3	1633.0	2829.0	4288.5	5738.6	6138.4	6005.1	5720.0	5329.6	3485.9
65°	514.4	551.6	811.8	1323.1	1902.6	2392.1	2791.9	2915.8	2150.4	1936.6	1149.6
67.5°	350.1	378.0	591.8	756.1	678.6	709.6	923.4	858.3	505.1	430.7	319.2
70°	266.5	285.1	474.1	514.4	303.7	213.8	238.6	223.1	207.6	210.7	207.6
72.5°	189.0	204.5	347.0	303.7	133.2	99.2	127.0	151.8	151.8	151.8	148.7
75°	114.6	130.1	201.4	117.7	52.7	52.7	80.6	102.3	108.5	111.6	105.4
77.5°	58.9	74.4	68.2	34.1	34.1	40.3	58.9	71.3	77.5	77.5	74.4
80°	12.4	12.4	12.4	18.6	34.1	43.4	58.9	65.1	74.4	74.4	68.2
82.5°	0.0	3.1	9.3	18.6	31.0	40.3	55.8	65.1	74.4	77.5	71.3
85°	0.0	3.1	6.2	12.4	21.7	24.8	21.7	18.6	18.6	18.6	18.6
87.5°	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8	4455.8
2.5°	4499.2	4508.5	4493.0	4489.9	4477.5	4514.7	4424.8	4403.1	4458.9	4406.2	4418.6
5°	4558.1	4579.8	4551.9	4505.4	4437.2	4331.9	4242.0	4124.3	4068.5	4028.2	4022.0
7.5°	4601.4	4616.9	4589.1	4440.3	4235.8	3969.3	3771.0	3625.4	3510.7	3476.6	3420.9
10°	4778.1	4781.2	4641.7	4313.3	3913.6	3563.4	3259.7	3036.6	2922.0	2850.7	2819.7
12.5°	4895.8	4889.6	4607.6	4062.3	3529.3	3064.5	2717.5	2447.9	2342.6	2308.5	2286.8
15°	5044.5	5010.5	4527.1	3805.1	3033.5	2531.6	2218.6	2032.7	2023.4	2001.7	2023.4
17.5°	5162.3	5066.2	4409.3	3337.2	2559.5	2085.4	1880.9	1893.3	1918.0	1939.7	1942.8
20°	5354.4	5156.1	4139.8	2928.2	2119.5	1787.9	1784.8	1840.6	1902.6	1927.3	1952.1
22.5°	5500.0	5193.3	3851.6	2491.3	1760.0	1667.1	1719.7	1803.4	1849.9	1874.7	1911.8
25°	5552.7	5091.0	3467.4	2054.4	1586.5	1611.3	1691.8	1747.6	1806.5	1834.4	1818.9
27.5°	5605.4	5038.4	3008.8	1691.8	1493.5	1574.1	1642.3	1698.0	1716.6	1753.8	1778.6
30°	5732.4	4855.5	2596.6	1462.5	1447.1	1549.3	1598.9	1617.5	1667.1	1688.7	1688.7
32.5°	5834.7	4784.3	2159.7	1354.1	1440.9	1561.7	1567.9	1567.9	1574.1	1558.6	1552.4
35°	6045.4	4539.5	1769.3	1289.0	1437.8	1564.8	1580.3	1527.6	1385.1	1329.3	1313.8
37.5°	6305.7	4381.4	1481.1	1273.5	1459.4	1602.0	1626.8	1428.5	1242.5	1152.7	1137.2
40°	6621.7	4269.9	1292.1	1267.3	1509.0	1688.7	1614.4	1351.0	1109.3	979.2	973.0
42.5°	6990.5	4167.6	1165.1	1264.2	1571.0	1778.6	1602.0	1285.9	973.0	886.2	898.6
45°	7284.8	4111.9	1078.3	1242.5	1592.7	1831.3	1611.3	1171.3	917.2	861.4	867.6
47.5°	7514.1	3994.1	1007.1	1205.4	1589.6	1849.9	1527.6	1124.8	889.3	904.8	920.3
50°	7520.3	3836.1	917.2	1124.8	1543.1	1815.8	1431.6	1081.4	883.1	948.2	979.2
52.5°	7436.7	3613.0	821.1	1010.1	1434.7	1698.0	1344.8	1062.8	855.2	849.0	886.2
55°	7139.2	3194.7	660.0	818.0	1211.6	1400.6	1267.3	1028.7	771.6	700.3	706.5
57.5°	5769.6	2289.9	486.5	585.6	858.3	1025.6	1143.4	1013.2	694.1	594.9	598.0
60°	3572.7	1298.3	356.3	399.7	529.9	622.8	926.5	942.0	619.7	502.0	495.8
62.5°	1834.4	641.4	275.8	282.0	325.4	365.6	635.2	790.1	560.8	477.2	477.2
65°	613.5	316.1	241.7	216.9	216.9	226.2	384.2	548.5	474.1	399.7	399.7
67.5°	263.4	235.5	210.7	189.0	173.5	164.2	216.9	319.2	353.2	303.7	291.3
70°	204.5	198.3	182.8	158.0	136.3	123.9	127.0	164.2	201.4	195.2	189.0
72.5°	151.8	151.8	145.6	123.9	105.4	89.9	83.7	86.8	96.1	99.2	102.3
75°	105.4	108.5	108.5	96.1	77.5	65.1	55.8	46.5	37.2	31.0	27.9
77.5°	71.3	74.4	80.6	71.3	58.9	43.4	34.1	24.8	15.5	6.2	6.2
80°	62.0	71.3	77.5	71.3	62.0	46.5	34.1	18.6	9.3	0.0	0.0
82.5°	65.1	71.3	80.6	68.2	58.9	43.4	34.1	21.7	9.3	3.1	0.0
85°	15.5	15.5	18.6	21.7	27.9	31.0	24.8	15.5	9.3	3.1	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	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)