

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: P532998

Luminaire Tested: **GALN-SA8B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28332 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

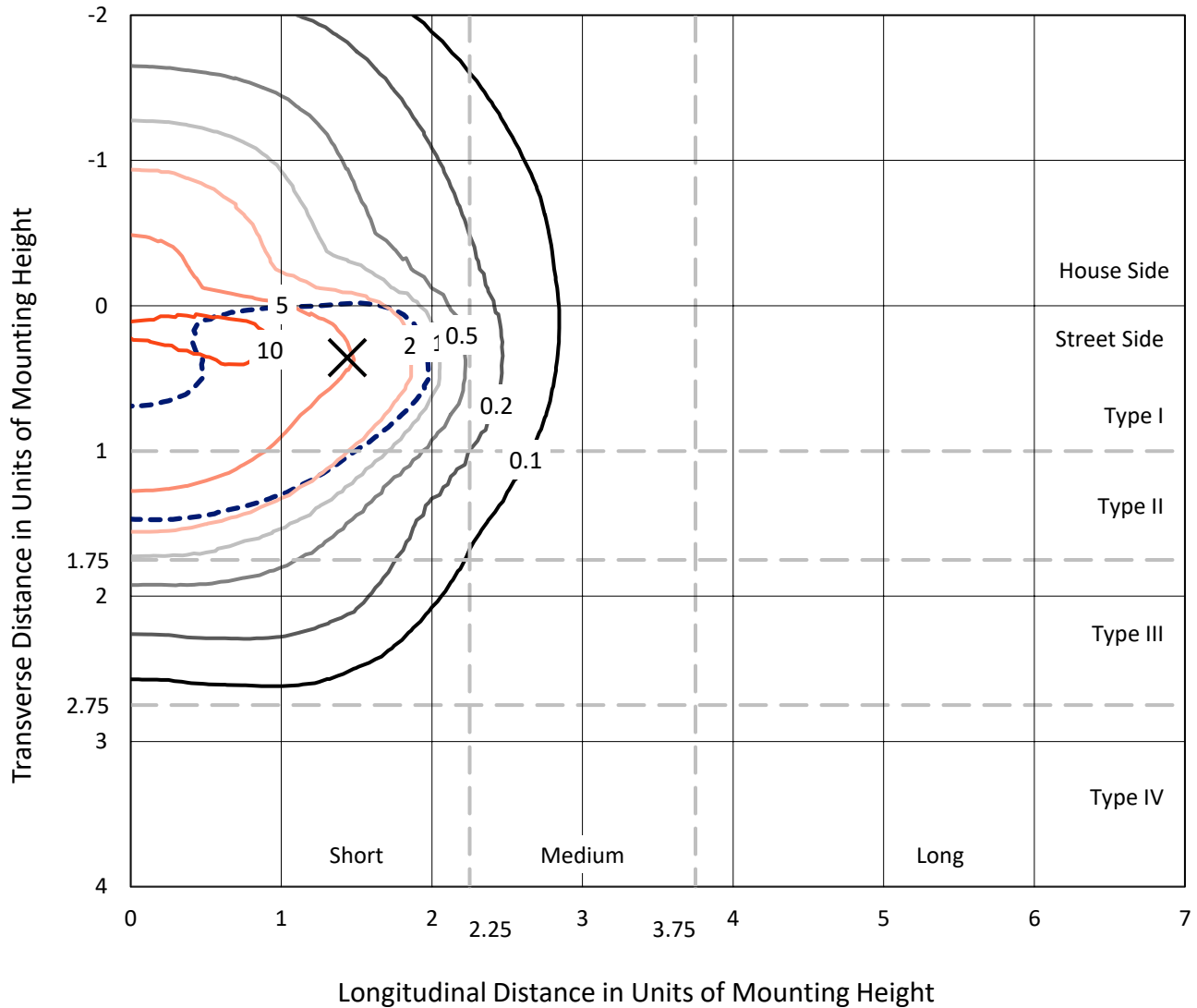
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

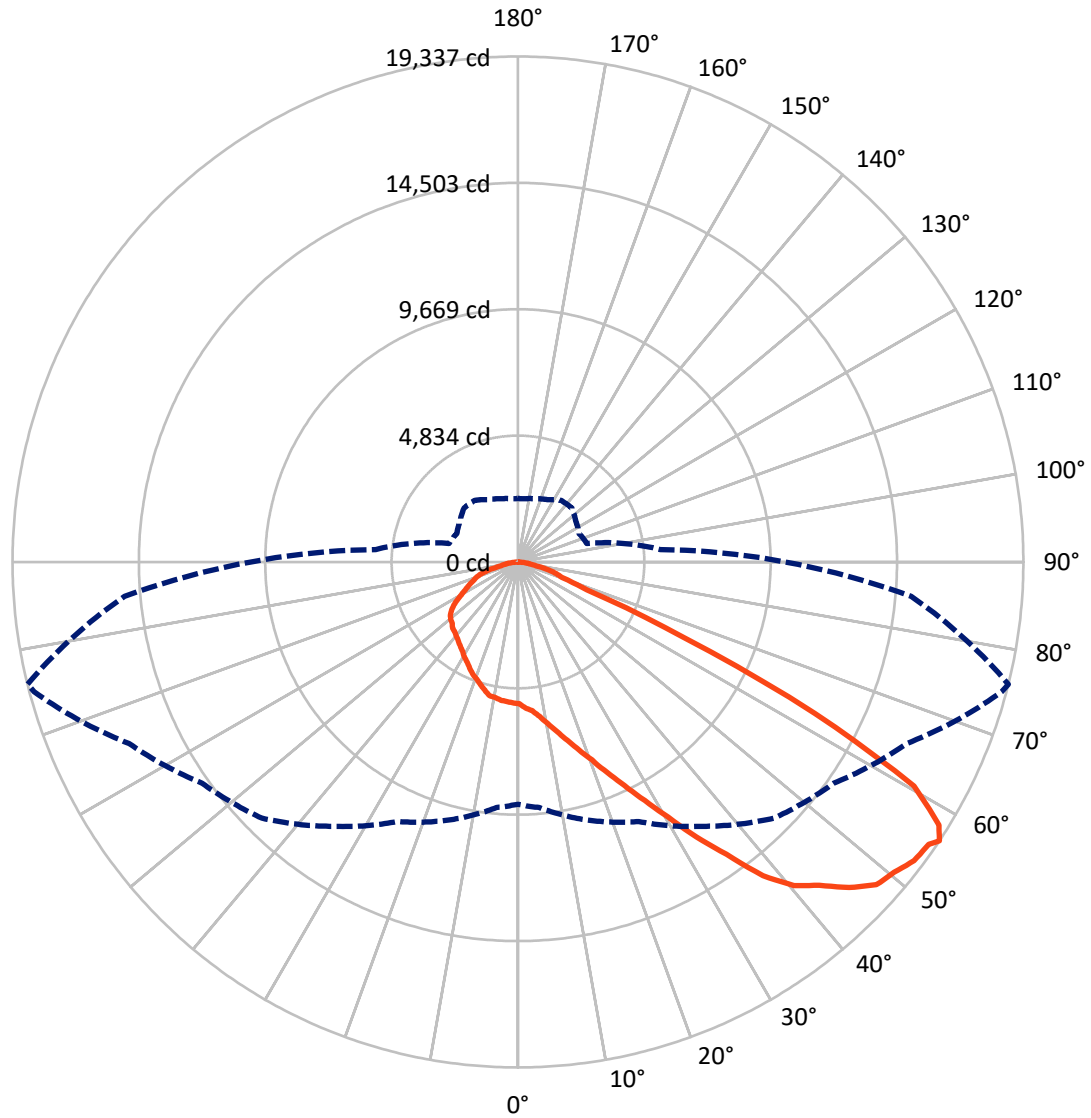
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7617.6	0.0	7617.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20714.4	0.0	20714.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	28332.0	0.0	28332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	1.9
10°-20°	1688.7	6.0
20°-30°	2953.4	10.4
30°-40°	4624.2	16.3
40°-50°	6726.9	23.7
50°-60°	7393.3	26.1
60°-70°	3300.0	11.6
70°-80°	953.2	3.4
80°-90°	154.6	0.5
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°	28332.0	100.0
0°-180°	28332.0	100.0

Coefficient of Utilization

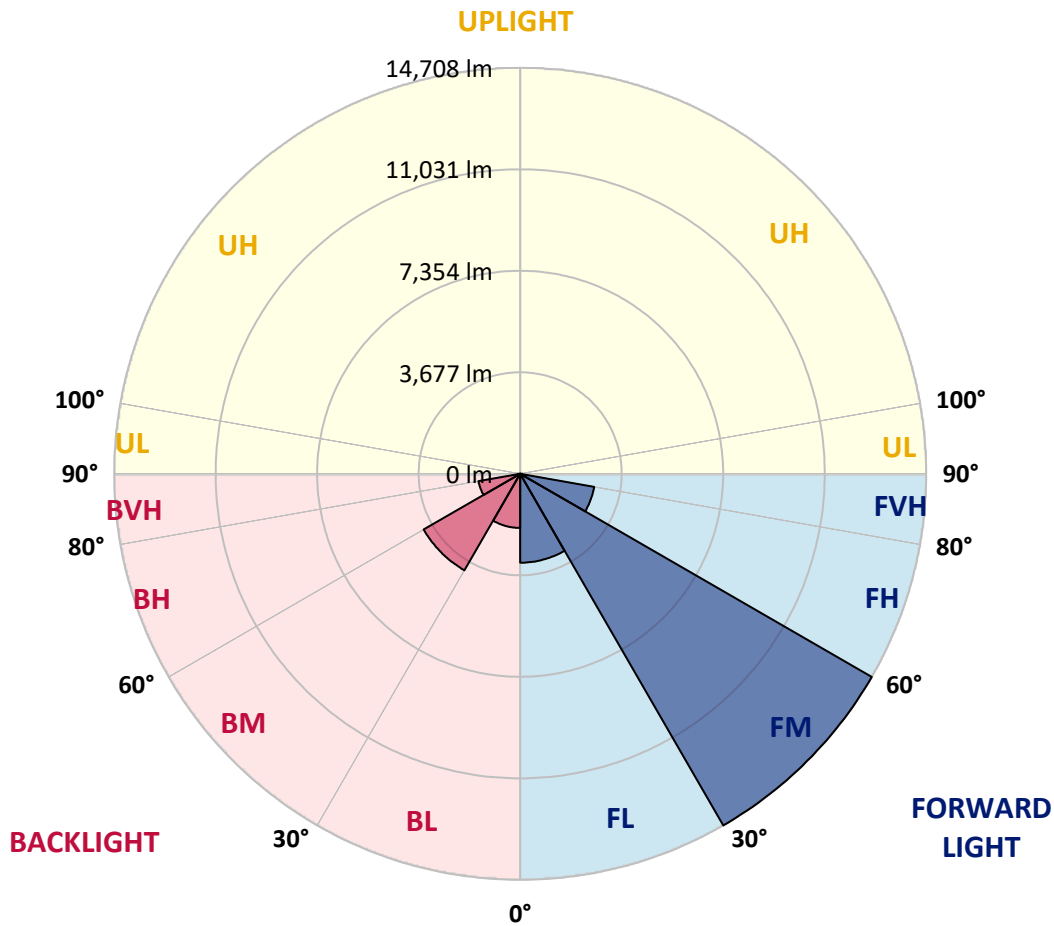


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3219.6	11.4			
FM (30°-60°)	14707.7	51.9			
FH (60°-80°)	2720.5	9.6			G2/5000
FVH (80°-90°)	66.6	0.2			G1/100
BL (0°-30°)	1960.2	6.9	B3/2500		
BM (30°-60°)	4036.7	14.2	B3/5000		
BH (60°-80°)	1532.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	88.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0
2.5°	5971.9	5876.4	5869.0	5843.3	5858.0	5791.9	5722.1	5630.3	5534.8	5593.6	5454.0
5°	6390.6	6262.0	6313.4	6225.3	6236.3	6148.2	6004.9	5898.4	5780.9	5711.1	5611.9
7.5°	6537.5	6548.5	6585.2	6570.5	6497.1	6497.1	6401.6	6214.3	6008.6	5968.2	5802.9
10°	6735.8	6739.5	6699.1	6710.1	6812.9	6765.2	6680.7	6599.9	6335.5	6287.7	5993.9
12.5°	6805.6	6739.5	6805.6	6864.4	6985.6	7051.7	7033.3	6974.5	6691.7	6658.7	6229.0
15°	6816.6	6776.2	6831.3	6963.5	7070.0	7349.2	7488.7	7448.3	7073.7	7077.4	6493.4
17.5°	6765.2	6820.3	6842.3	6956.2	7202.2	7463.0	7867.0	7922.1	7613.6	7565.8	6827.6
20°	6835.0	6794.6	6824.0	6926.8	7253.7	7661.3	8190.2	8553.8	8120.4	8087.4	7172.9
22.5°	7103.1	7048.0	7040.6	7106.8	7341.8	7764.2	8531.8	9185.5	8737.4	8755.8	7602.6
25°	7312.4	7341.8	7316.1	7312.4	7459.3	7918.4	8983.5	9938.4	9574.8	9468.3	8109.4
27.5°	7672.4	7742.1	7690.7	7760.5	7727.4	8149.8	9306.7	10772.1	10478.3	10335.1	8568.5
30°	8171.8	8208.6	8160.8	8160.8	8061.7	8473.0	9600.5	11642.6	11521.4	11326.7	9108.4
32.5°	8829.3	8884.4	8788.9	8733.8	8719.1	8954.1	10129.4	12502.0	12707.7	12542.4	9824.6
35°	9699.7	9666.7	9552.8	9501.4	9303.1	9692.4	10915.4	13490.0	14029.9	13736.0	10691.3
37.5°	10467.3	10415.9	10408.5	10122.1	10169.8	10489.3	11583.8	14239.2	15311.7	15227.2	11605.9
40°	11183.5	11231.2	11308.4	11146.8	11073.3	11425.9	12362.4	14812.2	16307.0	16273.9	12311.0
42.5°	11951.1	11907.0	12042.9	11907.0	11796.8	12296.3	13207.2	15208.8	17181.1	16909.3	13049.2
45°	13063.9	12924.4	12972.1	12983.1	12902.3	13086.0	13556.1	15495.3	17794.4	17765.0	13589.1
47.5°	13993.1	13996.8	13916.0	13853.6	13607.5	13791.1	13945.4	15675.3	18499.6	18451.8	13798.5
50°	14338.4	14290.6	14525.7	14661.6	14676.3	14301.7	14250.2	15774.4	18870.5	18661.2	14007.8
52.5°	13097.0	13141.1	13512.0	14320.0	14786.5	14826.9	14606.5	15980.1	19021.1	18977.0	14176.8
55°	10540.8	10753.8	11363.5	12296.3	13401.8	14617.5	14992.1	16193.1	19101.9	19065.2	14926.0
56°	9266.3	9431.6	10224.9	10955.8	12344.1	13857.2	14749.7	16420.8	19164.4	19337.0	15102.3
57.5°	7459.3	7650.3	8219.6	9049.6	10687.7	12410.2	14081.3	16141.7	18922.0	18988.1	15230.9
60°	4664.4	4682.7	5365.9	5913.1	7066.4	8748.5	10746.4	14044.6	17511.6	17416.1	13681.0
62.5°	3059.4	3063.1	3683.8	4131.8	4657.0	5042.7	6324.5	9314.1	12920.7	12751.8	9740.1
65°	2148.6	2196.3	2677.4	3276.1	3489.1	3287.1	3246.7	4910.5	7216.9	6974.5	5233.7
67.5°	1571.9	1575.6	2001.6	2644.4	2952.9	2501.1	2031.0	2398.3	2857.4	2850.0	2424.0
70°	1039.4	1083.5	1410.3	1975.9	2328.5	2009.0	1660.1	1715.2	1818.0	1818.0	1803.3
72.5°	606.0	646.4	863.1	1252.4	1307.5	1256.1	1314.8	1469.1	1535.2	1531.5	1513.2
75°	345.2	363.6	411.3	521.5	650.1	767.6	965.9	1112.8	1178.9	1219.3	1171.6
77.5°	202.0	213.0	242.4	297.5	337.9	415.0	525.2	628.0	716.2	705.2	712.5
80°	106.5	106.5	135.9	176.3	235.1	293.8	348.9	407.7	455.4	466.4	477.5
82.5°	62.4	66.1	88.1	128.5	168.9	209.3	268.1	308.5	352.6	356.3	363.6
85°	33.1	36.7	55.1	84.5	113.9	128.5	132.2	124.9	135.9	128.5	146.9
87.5°	11.0	11.0	18.4	14.7	14.7	18.4	22.0	22.0	29.4	29.4	29.4
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°	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0	5421.0
2.5°	5450.3	5450.3	5387.9	5270.4	5252.0	5204.3	5160.2	5156.5	5123.5	5094.1	5079.4
5°	5553.2	5439.3	5347.5	5241.0	5116.1	5057.4	4991.3	4917.8	4888.4	4917.8	4914.1
7.5°	5670.7	5575.2	5299.8	5101.4	4958.2	4899.4	4826.0	4748.9	4756.2	4756.2	4704.8
10°	5784.6	5656.0	5215.3	4961.9	4752.5	4708.5	4668.1	4697.4	4734.2	4741.5	4708.5
12.5°	5975.5	5685.4	5174.9	4822.3	4690.1	4594.6	4620.3	4701.1	4778.2	4756.2	4781.9
15°	6118.8	5711.1	4991.3	4679.1	4513.8	4557.9	4649.7	4704.8	4833.3	4818.6	4844.3
17.5°	6258.3	5725.8	4811.3	4488.1	4418.3	4539.5	4609.3	4767.2	4807.6	4895.8	4928.8
20°	6544.8	5755.2	4627.7	4370.6	4348.5	4488.1	4609.3	4682.7	4770.9	4848.0	4848.0
22.5°	6691.7	5740.5	4506.5	4216.3	4286.1	4374.2	4484.4	4609.3	4609.3	4682.7	4686.4
25°	6875.4	5681.7	4315.5	4142.9	4194.3	4278.7	4403.6	4359.5	4407.3	4407.3	4466.1
27.5°	7084.7	5556.9	4150.2	4010.6	4113.5	4205.3	4223.7	4194.3	4139.2	4131.8	4109.8
30°	7253.7	5402.6	4029.0	3966.6	4051.0	4102.5	4043.7	3981.3	3885.8	3878.4	3827.0
32.5°	7485.0	5211.6	3878.4	3856.4	3951.9	3955.5	3937.2	3841.7	3702.1	3643.4	3584.6
35°	7874.4	5101.4	3764.6	3797.6	3827.0	3816.0	3782.9	3680.1	3540.5	3514.8	3492.8
37.5°	8160.8	5020.6	3647.0	3687.4	3713.1	3727.8	3628.7	3514.8	3518.5	3467.1	3452.4
40°	8484.0	4969.2	3551.5	3569.9	3573.6	3621.3	3500.1	3445.0	3470.7	3437.7	3459.7
42.5°	8899.0	4983.9	3452.4	3437.7	3507.5	3489.1	3430.3	3356.9	3371.6	3272.4	3287.1
45°	9119.4	5083.1	3393.6	3327.5	3404.6	3401.0	3323.8	3254.0	3165.9	2974.9	2982.3
47.5°	9266.3	5108.8	3254.0	3210.0	3290.8	3338.5	3250.4	3088.8	2963.9	2828.0	2795.0
50°	9416.9	5156.5	3187.9	3096.1	3129.2	3243.0	3132.8	2978.6	2857.4	2736.2	2754.6
52.5°	9549.1	5248.3	3059.4	2923.5	2982.3	3107.1	3048.4	2861.1	2728.8	2629.7	2600.3
55°	10136.8	5454.0	2842.7	2666.4	2806.0	2963.9	2930.8	2703.1	2559.9	2508.5	2501.1
56°	10228.6	5461.4	2728.8	2578.3	2706.8	2916.2	2875.8	2633.4	2504.8	2424.0	2427.7
57.5°	10243.3	5373.2	2567.2	2497.5	2607.6	2846.4	2795.0	2578.3	2402.0	2328.5	2306.5
60°	9012.9	4194.3	2365.2	2321.2	2449.7	2633.4	2615.0	2427.7	2229.4	2144.9	2185.3
62.5°	6144.5	3074.1	2207.3	2200.0	2266.1	2446.0	2398.3	2229.4	2064.1	2009.0	1983.3
65°	3577.2	2332.2	2053.1	2023.7	2078.8	2174.3	2207.3	2031.0	1858.4	1821.7	1810.7
67.5°	2111.8	1928.2	1854.7	1807.0	1788.6	1847.4	1873.1	1770.3	1597.6	1546.2	1590.3
70°	1766.6	1715.2	1718.8	1638.0	1594.0	1553.6	1531.5	1439.7	1296.5	1230.4	1212.0
72.5°	1524.2	1502.2	1487.5	1414.0	1373.6	1281.8	1186.3	1094.5	988.0	932.9	936.5
75°	1164.3	1156.9	1164.3	1127.5	1057.7	984.3	896.1	778.6	697.8	628.0	642.7
77.5°	694.1	716.2	727.2	712.5	683.1	617.0	561.9	484.8	407.7	352.6	345.2
80°	477.5	495.8	514.2	495.8	466.4	418.7	359.9	301.2	246.1	216.7	209.3
82.5°	363.6	382.0	393.0	374.6	337.9	286.5	246.1	205.7	161.6	132.2	124.9
85°	132.2	150.6	146.9	176.3	191.0	183.6	157.9	121.2	91.8	66.1	62.4
87.5°	36.7	33.1	36.7	36.7	36.7	33.1	29.4	29.4	29.4	18.4	14.7
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)