

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: P533598

Luminaire Tested: **GALN-SA9A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533598  
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-SA9A-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 33937 lumens  
Efficiency: N/A  
Efficacy: 123.9 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

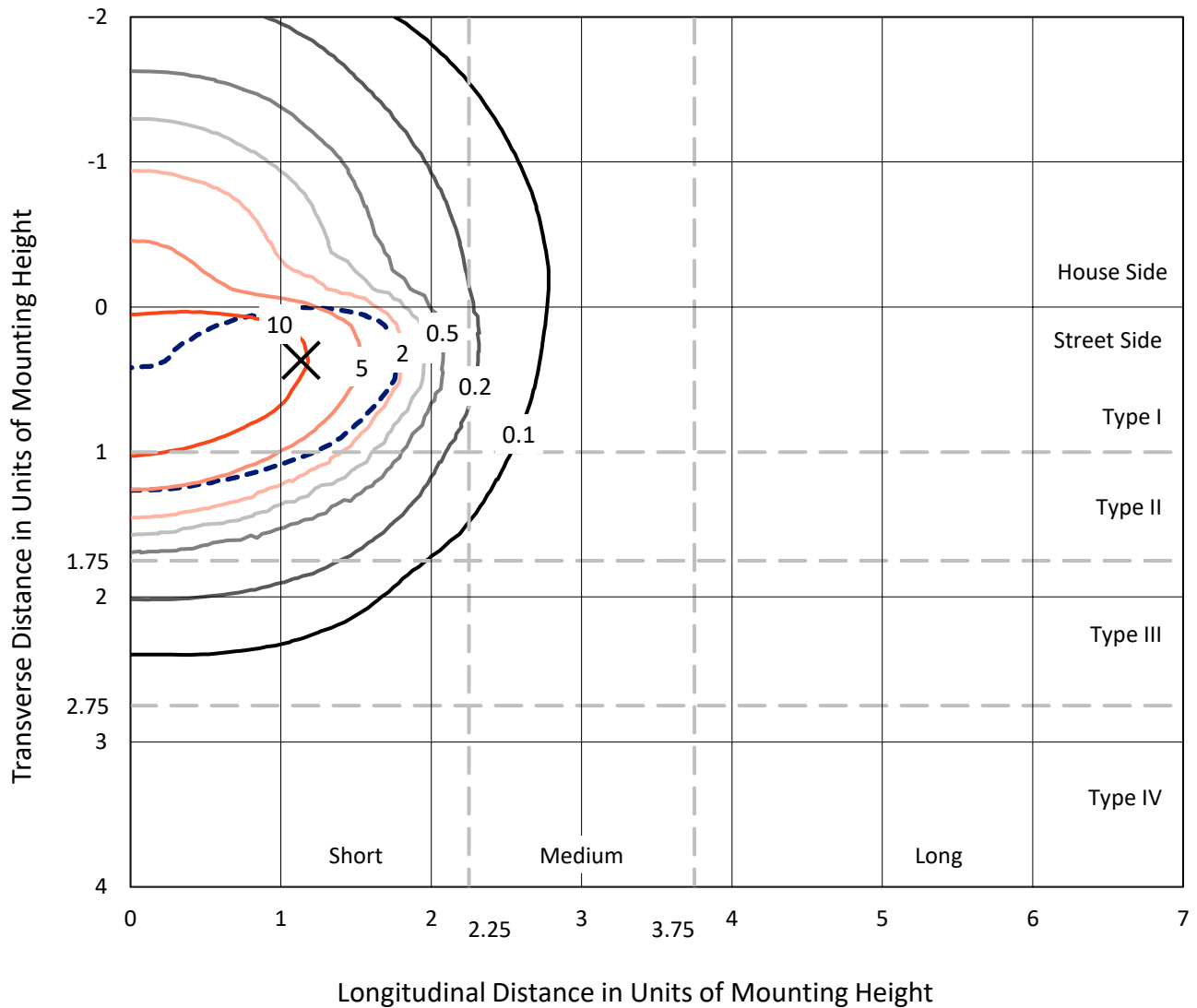
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

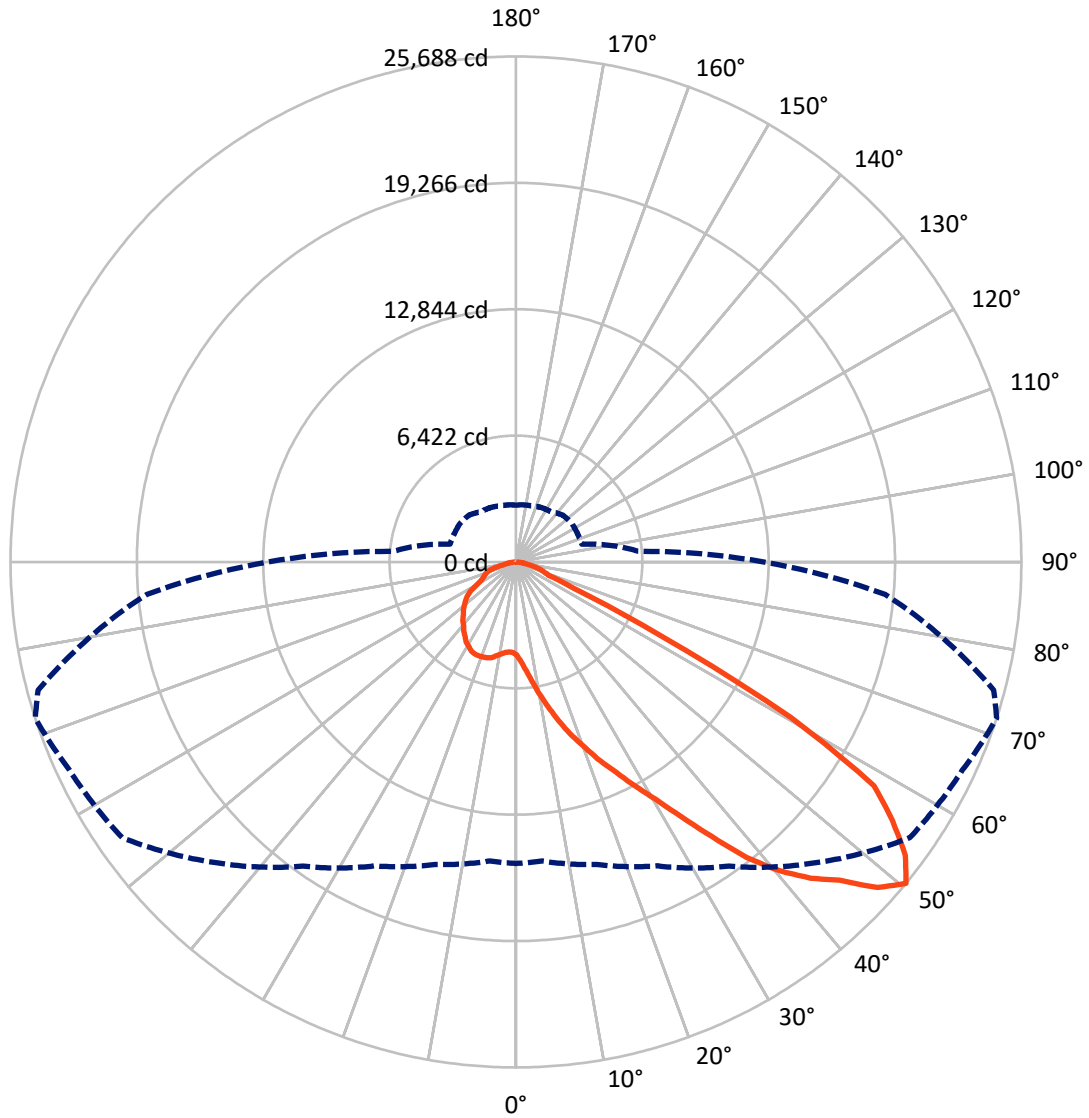
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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
<b>House Side</b>	Lumens	7775.2	0.0	7775.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	26161.8	0.0	26161.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	33937.0	0.0	33937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.7	1.6
10°-20°	2077.4	6.1
20°-30°	4027.9	11.9
30°-40°	6672.9	19.7
40°-50°	9336.8	27.5
50°-60°	7876.8	23.2
60°-70°	2400.8	7.1
70°-80°	842.3	2.5
80°-90°	146.4	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°	33937.0	100.0
0°-180°	33937.0	100.0

**Coefficient of Utilization**

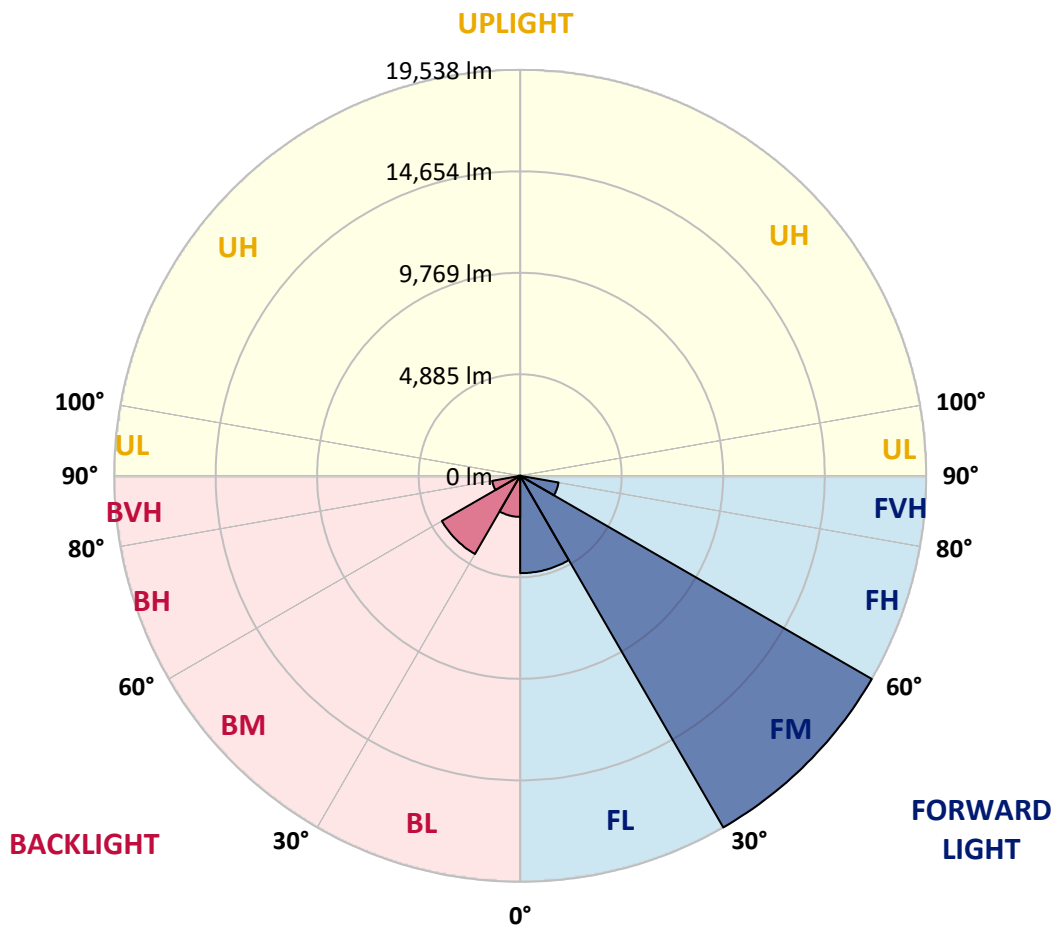


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4684.5	13.8			
FM (30°-60°)	19538.4	57.6			
FH (60°-80°)	1873.3	5.5			G2/5000
FVH (80°-90°)	65.6	0.2			G1/100
BL (0°-30°)	1976.5	5.8	B3/2500		
BM (30°-60°)	4348.0	12.8	B3/5000		
BH (60°-80°)	1369.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	80.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3
2.5°	6076.5	6038.7	5925.3	5887.6	5753.2	5509.6	5425.6	5177.9	5072.9	4976.3	4862.9
5°	7684.9	7508.5	7495.9	7281.8	6971.0	6790.4	6252.9	5891.8	5560.0	5392.0	5081.3
7.5°	8709.5	8713.7	8713.7	8537.4	8289.6	7831.9	7348.9	6698.0	6198.3	5950.5	5421.4
10°	9683.8	9599.8	9553.6	9536.8	9368.9	8923.7	8407.2	7600.9	6916.4	6626.6	5677.6
12.5°	10372.5	10301.1	10406.1	10351.5	10229.7	9940.0	9452.8	8533.2	7676.5	7286.0	6089.1
15°	10700.1	10750.5	10834.4	10985.6	10931.0	10821.8	10284.3	9490.6	8495.4	8054.4	6454.5
17.5°	11204.0	11065.4	11166.2	11355.2	11506.3	11456.0	11149.4	10183.5	9305.9	8764.1	6945.8
20°	11556.7	11476.9	11527.3	11745.7	11859.1	12144.7	11985.1	11090.6	10082.7	9511.6	7525.3
22.5°	12564.6	12447.0	12283.2	12316.8	12358.8	12560.4	12598.2	12085.9	10985.6	10380.9	8075.4
25°	13807.6	13698.4	13505.3	13307.9	13186.1	13148.3	13278.5	12866.9	11850.7	11225.0	8667.6
27.5°	15176.6	14991.8	14870.1	14462.7	14135.2	14084.8	14021.8	13799.2	12875.3	12199.2	9335.3
30°	16507.8	16360.8	16197.1	15546.2	15206.0	15151.4	14840.7	14903.7	13988.2	13236.5	10091.1
32.5°	17515.7	17528.3	17154.5	16663.2	16344.0	16054.3	15940.9	16121.5	15416.0	14811.3	10935.2
35°	18330.4	18368.2	18011.2	17566.1	17221.7	17423.3	17372.9	17456.9	17120.9	16381.8	11917.9
37.5°	19124.0	18935.1	18552.9	18338.8	18158.2	18489.9	18918.3	18989.7	19052.7	18183.4	13060.1
40°	19254.2	19271.0	19048.5	19199.6	18972.9	19472.6	20467.9	20375.5	20631.6	19871.5	14298.9
42.5°	19069.5	19107.2	19195.4	19409.6	19955.5	20556.0	22034.2	21656.3	21967.0	21290.9	15504.2
45°	18767.1	18611.7	18720.9	19535.6	20480.5	21815.9	23466.2	23172.3	23071.5	22504.6	16940.4
47.5°	17322.5	17482.1	17822.2	18825.9	20245.3	22034.2	24482.5	24415.3	24717.6	24318.7	18246.4
50°	15319.4	15256.4	15911.5	17041.1	18872.1	21605.9	24427.9	25036.8	25687.7	25133.4	18830.1
52.5°	11472.7	11808.7	12371.4	13774.0	16386.0	19271.0	23235.3	24251.5	24780.6	24663.0	18359.8
55°	7252.4	7353.1	7693.3	9360.5	11712.1	15466.4	19917.7	22273.6	23218.5	23659.4	17927.2
57.5°	3523.3	3334.3	3750.1	5089.7	6765.2	10401.9	15361.4	19401.2	21454.7	22252.6	16986.6
60°	1839.3	1910.7	2074.5	2553.2	3498.1	5400.4	9574.6	12929.9	16066.9	17293.1	12875.3
62.5°	1524.4	1549.6	1658.8	1898.1	2326.5	3107.6	4888.1	6303.3	8193.0	9297.5	7323.7
65°	1293.4	1306.0	1423.6	1583.2	1856.1	2187.9	2515.4	2633.0	3187.3	3271.3	2603.6
67.5°	1079.2	1091.8	1217.8	1369.0	1545.4	1633.6	1717.6	1709.2	1772.1	1746.9	1742.7
70°	831.5	844.1	974.3	1133.8	1222.0	1171.6	1432.0	1490.8	1516.0	1537.0	1570.6
72.5°	600.5	625.7	726.5	839.9	793.7	911.3	1180.0	1268.2	1301.8	1314.4	1356.4
75°	436.7	445.1	470.3	436.7	503.9	634.1	831.5	940.7	982.7	995.3	1058.2
77.5°	193.2	197.4	201.6	252.0	323.4	394.7	495.5	583.7	642.5	659.3	676.1
80°	100.8	105.0	130.2	172.2	231.0	289.8	361.1	411.5	449.3	453.5	470.3
82.5°	63.0	67.2	92.4	121.8	163.8	214.2	264.6	306.6	336.0	340.2	344.4
85°	29.4	37.8	54.6	75.6	109.2	138.6	142.8	121.8	130.2	134.4	126.0
87.5°	8.4	12.6	16.8	12.6	16.8	16.8	21.0	25.2	25.2	25.2	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°	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3	4724.3
2.5°	4799.9	4762.1	4615.1	4560.5	4417.8	4443.0	4367.4	4363.2	4346.4	4342.2	4338.0
5°	4917.5	4799.9	4623.5	4489.2	4409.4	4401.0	4346.4	4346.4	4363.2	4375.8	4346.4
7.5°	5110.7	4976.3	4678.1	4552.1	4480.8	4468.2	4430.4	4401.0	4438.8	4426.2	4392.6
10°	5333.2	5098.1	4783.1	4673.9	4556.3	4526.9	4526.9	4539.5	4476.6	4497.6	4464.0
12.5°	5581.0	5266.0	4917.5	4791.5	4652.9	4636.1	4627.7	4535.3	4568.9	4552.1	4468.2
15°	5896.0	5459.2	5089.7	4875.5	4757.9	4682.3	4573.1	4556.3	4535.3	4493.4	4455.6
17.5°	6236.1	5669.2	5169.5	4900.7	4724.3	4669.7	4585.7	4497.6	4434.6	4443.0	4413.6
20°	6525.9	5862.4	5198.9	4925.9	4699.1	4594.1	4464.0	4409.4	4342.2	4338.0	4333.8
22.5°	6870.2	6122.7	5240.8	4858.7	4623.5	4514.4	4426.2	4329.6	4283.4	4224.6	4254.0
25°	7281.8	6223.5	5249.2	4820.9	4568.9	4375.8	4329.6	4224.6	4207.8	4123.8	4140.6
27.5°	7579.9	6278.1	5182.1	4703.3	4443.0	4296.0	4212.0	4136.4	4107.0	4044.0	4027.2
30°	7978.9	6362.1	5039.3	4556.3	4317.0	4153.2	4102.8	4086.0	4002.0	3934.8	3926.4
32.5°	8432.4	6416.7	4946.9	4405.2	4186.8	4060.8	4086.0	4006.2	3901.2	3842.4	3825.6
35°	8793.5	6437.7	4715.9	4233.0	4098.6	4018.8	3989.4	3972.6	3821.4	3766.9	3724.9
37.5°	9343.7	6391.5	4522.7	4111.2	4002.0	3972.6	3947.4	3834.0	3661.9	3582.1	3523.3
40°	9986.2	6378.9	4275.0	3939.0	3909.6	3943.2	3867.6	3691.3	3451.9	3363.7	3321.7
42.5°	10603.5	6467.1	4119.6	3846.6	3808.9	3821.4	3716.5	3451.9	3334.3	3283.9	3216.7
45°	11636.5	6651.8	3863.4	3703.9	3687.1	3678.7	3552.7	3275.5	3208.3	3145.3	3132.7
47.5°	12568.8	6530.1	3699.7	3556.9	3573.7	3527.5	3258.7	3170.5	3095.0	3032.0	3011.0
50°	12623.4	6240.3	3468.7	3443.5	3447.7	3367.9	3111.8	3053.0	2956.4	2914.4	2885.0
52.5°	12337.8	5765.8	3254.5	3262.9	3275.5	3145.3	2931.2	2889.2	2809.4	2750.6	2733.8
55°	11535.7	5026.7	3044.6	3078.2	3111.8	2864.0	2796.8	2691.8	2628.8	2544.8	2549.0
57.5°	10162.5	4048.2	2750.6	2805.2	2876.6	2603.6	2553.2	2423.1	2330.7	2263.5	2255.1
60°	6811.4	2880.8	2309.7	2330.7	2490.2	2381.1	2376.9	2246.7	2120.7	2061.9	2028.3
62.5°	4018.8	2200.5	1994.7	1973.7	1969.5	2032.5	2137.5	2091.3	1927.5	1814.1	1847.7
65°	2103.9	1902.3	1856.1	1784.7	1742.7	1726.0	1805.7	1826.7	1717.6	1595.8	1587.4
67.5°	1767.9	1767.9	1730.2	1705.0	1646.2	1574.8	1524.4	1457.2	1440.4	1406.8	1364.8
70°	1608.4	1650.4	1637.8	1579.0	1528.6	1448.8	1318.6	1209.4	1104.4	1066.6	1091.8
72.5°	1402.6	1444.6	1444.6	1415.2	1348.0	1226.2	1100.2	974.3	886.1	818.9	810.5
75°	1079.2	1100.2	1150.6	1117.0	1028.9	953.3	823.1	692.9	608.9	545.9	533.3
77.5°	688.7	722.3	722.3	718.1	655.1	583.7	499.7	407.3	344.4	298.2	285.6
80°	457.7	478.7	495.5	478.7	436.7	382.1	319.2	256.2	210.0	172.2	163.8
82.5°	336.0	361.1	373.7	356.9	315.0	273.0	226.8	180.6	134.4	105.0	96.6
85°	130.2	134.4	151.2	180.6	176.4	172.2	138.6	100.8	75.6	54.6	50.4
87.5°	33.6	29.4	33.6	33.6	29.4	25.2	25.2	25.2	25.2	12.6	16.8
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)