

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: P534303

Luminaire Tested: **GALN-SA9D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534303  
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-SA9D-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA 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: 39732 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

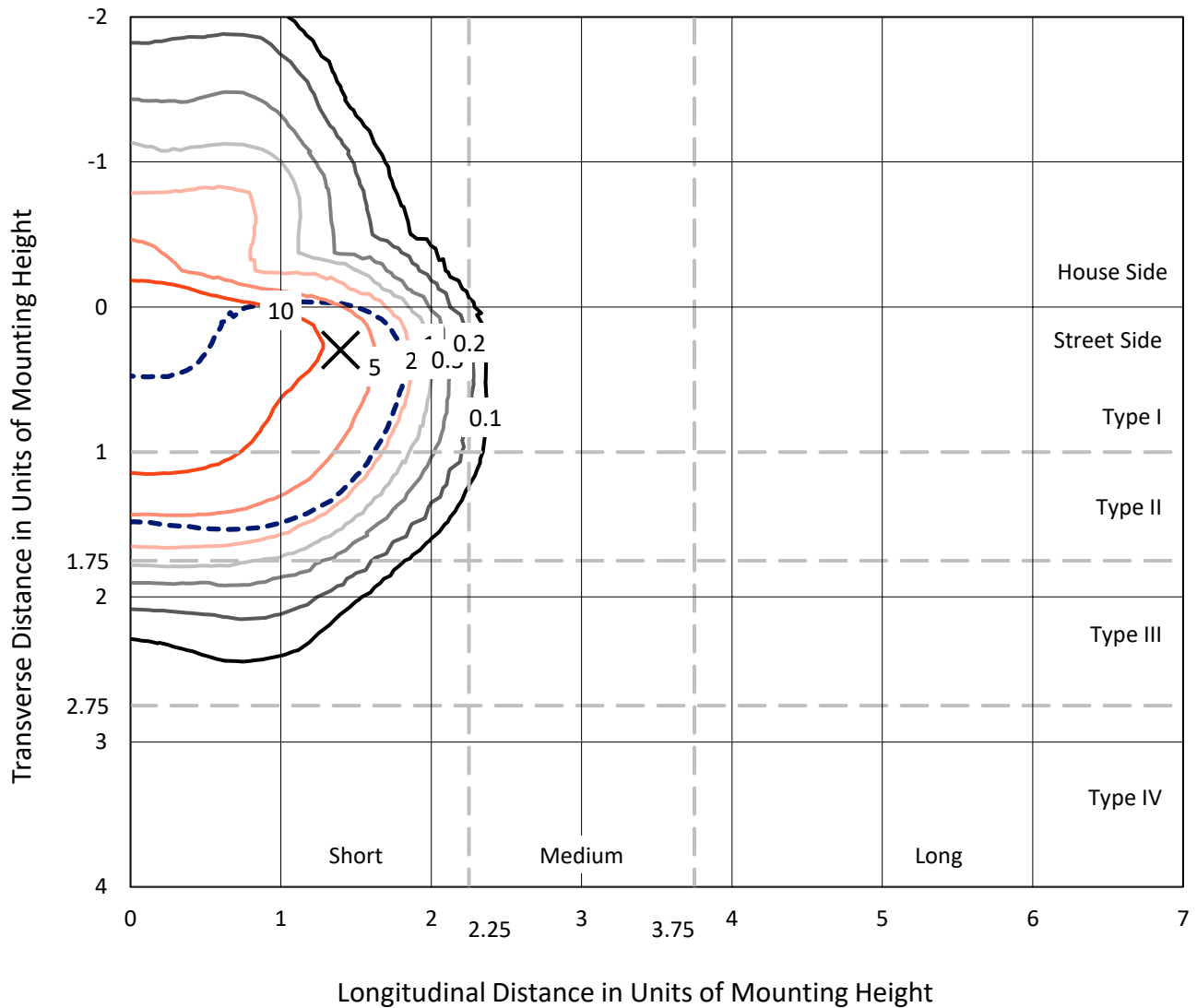
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

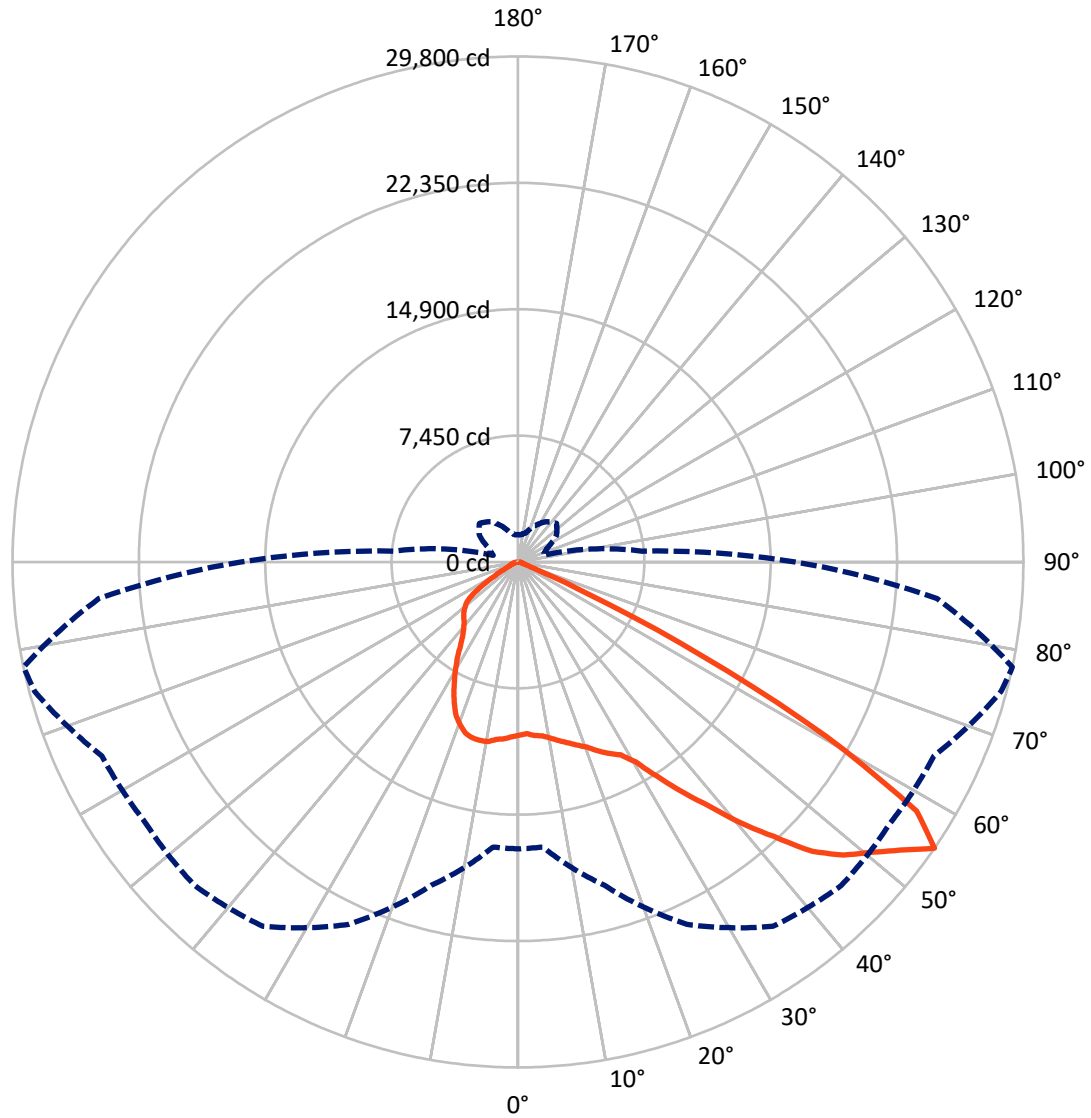
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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
<b>House Side</b>	Lumens	7379.8	0.0	7379.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	32352.2	0.0	32352.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	39732.0	0.0	39732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	910.9	2.3
10°-20°	2410.6	6.1
20°-30°	4225.4	10.6
30°-40°	6967.1	17.5
40°-50°	10138.0	25.5
50°-60°	11487.4	28.9
60°-70°	3284.5	8.3
70°-80°	255.0	0.6
80°-90°	53.0	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°	39732.0	100.0
0°-180°	39732.0	100.0

**Coefficient of Utilization**



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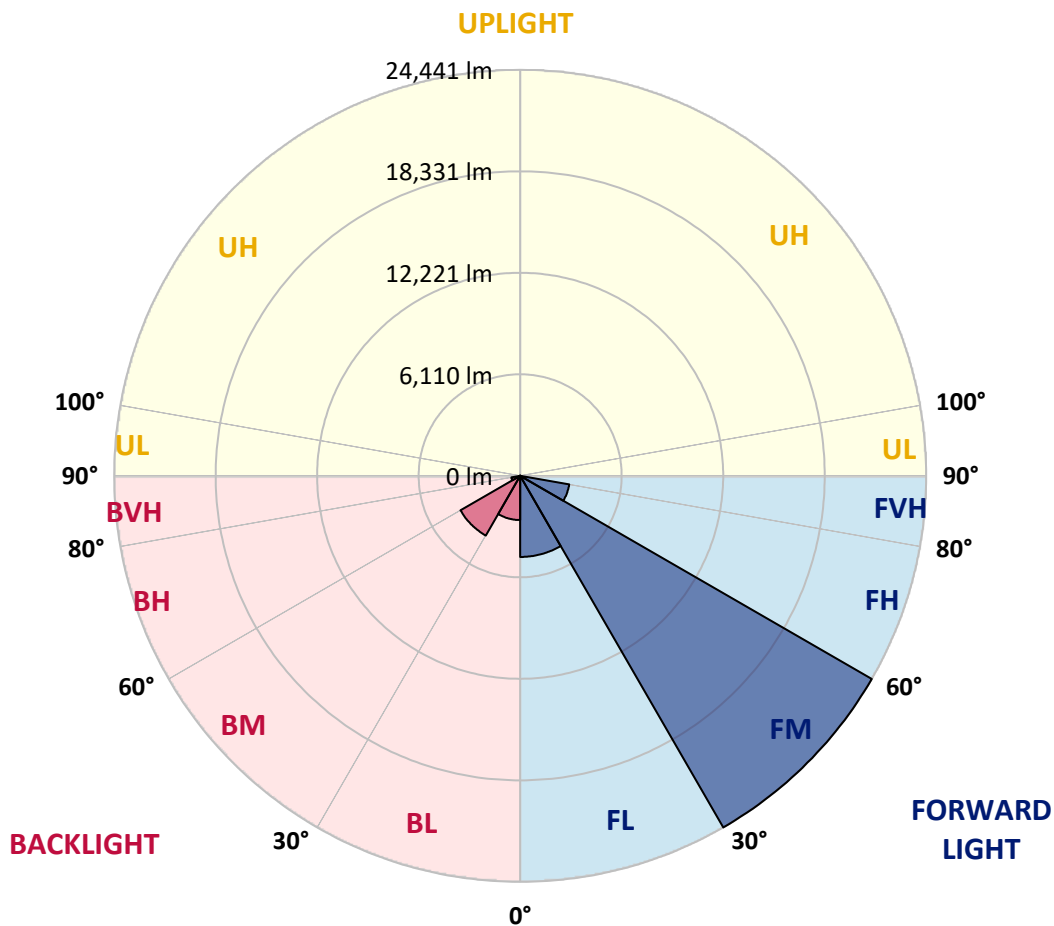
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4884.2	12.3			
FM (30°-60°)	24441.4	61.5			
FH (60°-80°)	3000.8	7.6			G2/5000
FVH (80°-90°)	25.8	0.1			G1/100
BL (0°-30°)	2662.6	6.7	B4/5000		
BM (30°-60°)	4151.2	10.4	B3/5000		
BH (60°-80°)	538.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1
2.5°	9604.2	9696.6	9710.8	9824.4	9817.3	10009.1	10065.9	10073.0	10200.9	10137.0	10300.4
5°	9334.3	9284.5	9263.2	9462.1	9519.0	9689.4	9831.5	9916.8	10179.6	10272.0	10442.4
7.5°	9092.7	9092.7	9106.9	9284.5	9263.2	9483.4	9632.6	9895.5	10279.1	10357.2	10563.2
10°	8858.3	8773.1	8879.6	9064.3	9220.6	9320.1	9632.6	9881.2	10328.8	10556.1	10840.2
12.5°	8737.6	8780.2	8794.4	8929.4	9099.8	9398.2	9568.7	9980.7	10684.0	10818.9	11124.4
15°	9497.6	9412.4	9206.4	9085.6	9227.7	9369.8	9796.0	10215.1	10868.7	11060.5	11401.4
17.5°	10378.5	10307.5	10137.0	9810.2	9490.5	9753.4	10087.3	10470.9	11067.6	11351.7	11856.1
20°	11529.3	11415.6	11245.2	10605.8	10328.8	10044.6	10399.8	10854.5	11394.3	11650.1	12168.6
22.5°	12900.3	12900.3	12516.7	11742.4	11167.0	10897.1	11046.3	11309.1	11756.6	12104.7	12616.2
25°	14328.2	14285.5	13937.5	13134.7	12161.5	11841.9	12012.4	12197.1	12317.8	12509.6	12850.6
27.5°	15962.0	15713.4	15273.0	14385.0	13525.4	12907.4	13092.1	12928.7	12779.6	12879.0	13369.2
30°	17070.2	17226.5	16665.3	15812.8	15003.0	14314.0	14349.5	14207.4	13525.4	13667.5	13958.8
32.5°	18221.0	18320.4	18007.9	17539.0	16729.2	15926.5	15635.2	15514.5	15003.0	15066.9	14782.8
35°	19180.0	19371.8	19094.7	18888.7	18654.3	18007.9	17205.2	17595.9	16771.8	16615.6	15876.8
37.5°	20060.8	20004.0	20330.8	20117.7	20068.0	19613.3	18732.5	18810.6	18256.5	18221.0	17368.5
40°	20849.4	20863.6	21311.1	21410.6	21211.6	20401.8	19123.2	19741.2	20188.7	20231.3	19137.4
42.5°	21502.9	21694.7	22078.3	22881.0	22582.7	21233.0	19528.1	20202.9	21865.2	22128.0	20813.8
45°	22071.2	22461.9	22937.8	23655.3	23484.8	22412.2	20536.8	21154.8	23655.3	24344.4	22390.9
47.5°	22106.7	22618.2	23136.8	24202.3	24415.4	23044.4	21581.0	22660.8	25076.1	25821.9	23541.7
50°	21964.6	22234.6	23271.7	24429.6	24912.7	24074.4	23044.4	23925.3	26454.2	26923.0	24124.2
52.5°	20281.1	20487.1	22568.5	24642.7	25807.7	25239.4	24983.7	25687.0	27860.7	28208.8	24671.1
55°	16906.8	16871.3	19734.1	23570.1	26219.8	26965.6	26809.4	27058.0	29487.5	29800.0	24806.1
57.5°	11564.8	12211.3	14683.3	19627.5	23697.9	26560.7	26724.1	26312.1	27590.8	27711.5	21623.7
60°	6237.0	6507.0	8496.0	13099.2	18043.4	21645.0	22071.2	21325.3	21225.9	20884.9	15436.3
62.5°	2479.2	2614.2	3743.6	6485.7	9831.5	13156.1	14072.4	13767.0	13113.4	12218.4	7991.7
65°	1179.2	1264.5	1861.2	3033.3	4361.7	5484.1	6400.4	6684.6	4930.0	4439.8	2635.5
67.5°	802.7	866.7	1356.8	1733.3	1555.7	1626.7	2116.9	1967.7	1157.9	987.4	731.7
70°	610.9	653.5	1086.9	1179.2	696.2	490.2	547.0	511.5	475.9	483.1	475.9
72.5°	433.3	468.8	795.6	696.2	305.5	227.3	291.3	348.1	348.1	348.1	341.0
75°	262.8	298.4	461.7	269.9	120.8	120.8	184.7	234.4	248.6	255.7	241.5
77.5°	135.0	170.5	156.3	78.1	78.1	92.3	135.0	163.4	177.6	177.6	170.5
80°	28.4	28.4	28.4	42.6	78.1	99.5	135.0	149.2	170.5	170.5	156.3
82.5°	0.0	7.1	21.3	42.6	71.0	92.3	127.9	149.2	170.5	177.6	163.4
85°	0.0	7.1	14.2	28.4	49.7	56.8	49.7	42.6	42.6	42.6	42.6
87.5°	0.0	0.0	7.1	7.1	7.1	14.2	14.2	14.2	14.2	14.2	14.2
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°	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1	10215.1
2.5°	10314.6	10335.9	10300.4	10293.3	10264.8	10350.1	10144.1	10094.4	10222.2	10101.5	10129.9
5°	10449.5	10499.3	10435.3	10328.8	10172.5	9931.0	9725.0	9455.0	9327.2	9234.8	9220.6
7.5°	10549.0	10584.5	10520.6	10179.6	9710.8	9099.8	8645.2	8311.3	8048.5	7970.4	7842.5
10°	10953.9	10961.0	10641.3	9888.4	8972.0	8169.3	7473.1	6961.6	6698.8	6535.4	6464.4
12.5°	11223.8	11209.6	10563.2	9313.0	8091.1	7025.6	6229.9	5611.9	5370.4	5292.3	5242.5
15°	11564.8	11486.7	10378.5	8723.3	6954.5	5803.7	5086.2	4660.0	4638.7	4589.0	4638.7
17.5°	11834.8	11614.5	10108.6	7650.7	5867.7	4780.8	4311.9	4340.4	4397.2	4446.9	4454.0
20°	12275.2	11820.6	9490.5	6713.0	4858.9	4098.8	4091.7	4219.6	4361.7	4418.5	4475.3
22.5°	12609.1	11905.8	8829.9	5711.4	4034.9	3821.8	3942.6	4134.4	4240.9	4297.7	4383.0
25°	12729.8	11671.4	7949.0	4709.8	3637.1	3693.9	3878.6	4006.5	4141.5	4205.4	4169.9
27.5°	12850.6	11550.6	6897.7	3878.6	3424.0	3608.7	3765.0	3892.8	3935.4	4020.7	4077.5
30°	13141.8	11131.5	5952.9	3352.9	3317.4	3551.8	3665.5	3708.1	3821.8	3871.5	3871.5
32.5°	13376.3	10968.1	4951.3	3104.3	3303.2	3580.3	3594.5	3594.5	3608.7	3573.2	3559.0
35°	13859.3	10406.9	4056.2	2955.1	3296.1	3587.4	3622.9	3502.1	3175.4	3047.5	3012.0
37.5°	14456.0	10044.6	3395.6	2919.6	3345.8	3672.6	3729.4	3274.8	2848.6	2642.6	2607.1
40°	15180.6	9788.9	2962.2	2905.4	3459.5	3871.5	3701.0	3097.2	2543.1	2244.8	2230.6
42.5°	16025.9	9554.5	2671.0	2898.3	3601.6	4077.5	3672.6	2948.0	2230.6	2031.7	2060.1
45°	16700.8	9426.6	2472.1	2848.6	3651.3	4198.3	3693.9	2685.2	2102.7	1974.8	1989.0
47.5°	17226.5	9156.7	2308.7	2763.3	3644.2	4240.9	3502.1	2578.6	2038.8	2074.3	2109.8
50°	17240.7	8794.4	2102.7	2578.6	3537.6	4162.8	3281.9	2479.2	2024.6	2173.7	2244.8
52.5°	17048.9	8282.9	1882.5	2315.8	3289.0	3892.8	3083.0	2436.6	1960.6	1946.4	2031.7
55°	16366.9	7323.9	1513.1	1875.4	2777.5	3210.9	2905.4	2358.4	1768.8	1605.4	1619.6
57.5°	13227.1	5249.6	1115.3	1342.6	1967.7	2351.3	2621.3	2322.9	1591.2	1363.9	1371.0
60°	8190.6	2976.5	816.9	916.4	1214.7	1427.8	2124.0	2159.5	1420.7	1150.8	1136.6
62.5°	4205.4	1470.5	632.2	646.4	745.9	838.2	1456.3	1811.4	1285.8	1094.0	1094.0
65°	1406.5	724.6	554.1	497.3	497.3	518.6	880.9	1257.4	1086.9	916.4	916.4
67.5°	603.8	539.9	483.1	433.3	397.8	376.5	497.3	731.7	809.8	696.2	667.7
70°	468.8	454.6	419.1	362.3	312.6	284.1	291.3	376.5	461.7	447.5	433.3
72.5°	348.1	348.1	333.9	284.1	241.5	206.0	191.8	198.9	220.2	227.3	234.4
75°	241.5	248.6	248.6	220.2	177.6	149.2	127.9	106.6	85.2	71.0	63.9
77.5°	163.4	170.5	184.7	163.4	135.0	99.5	78.1	56.8	35.5	14.2	14.2
80°	142.1	163.4	177.6	163.4	142.1	106.6	78.1	42.6	21.3	0.0	0.0
82.5°	149.2	163.4	184.7	156.3	135.0	99.5	78.1	49.7	21.3	7.1	0.0
85°	35.5	35.5	42.6	49.7	63.9	71.0	56.8	35.5	21.3	7.1	0.0
87.5°	14.2	14.2	14.2	14.2	14.2	7.1	7.1	7.1	7.1	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)