

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: P533641

Luminaire Tested: **GALN-SA9A-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-750-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24244 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

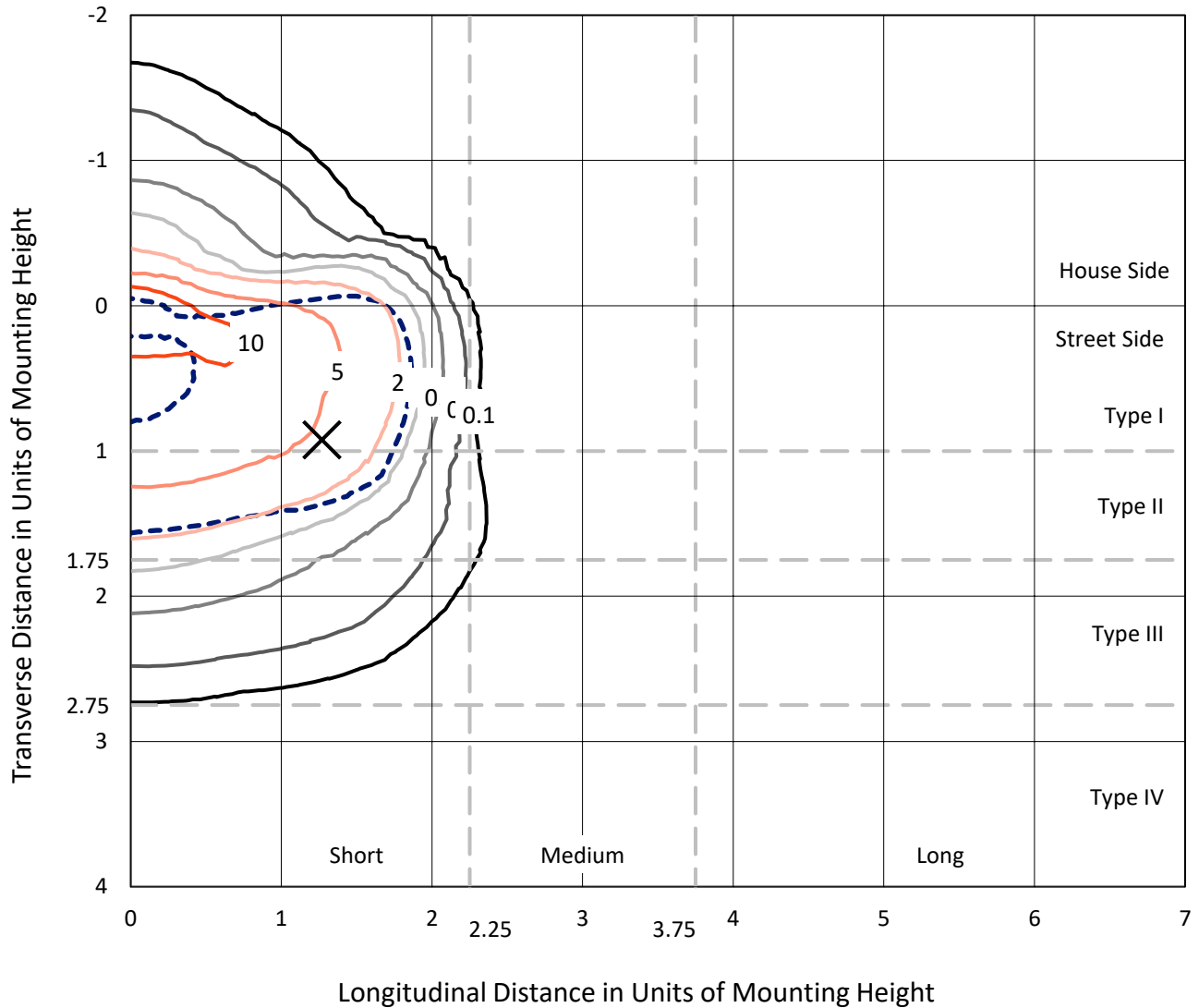
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

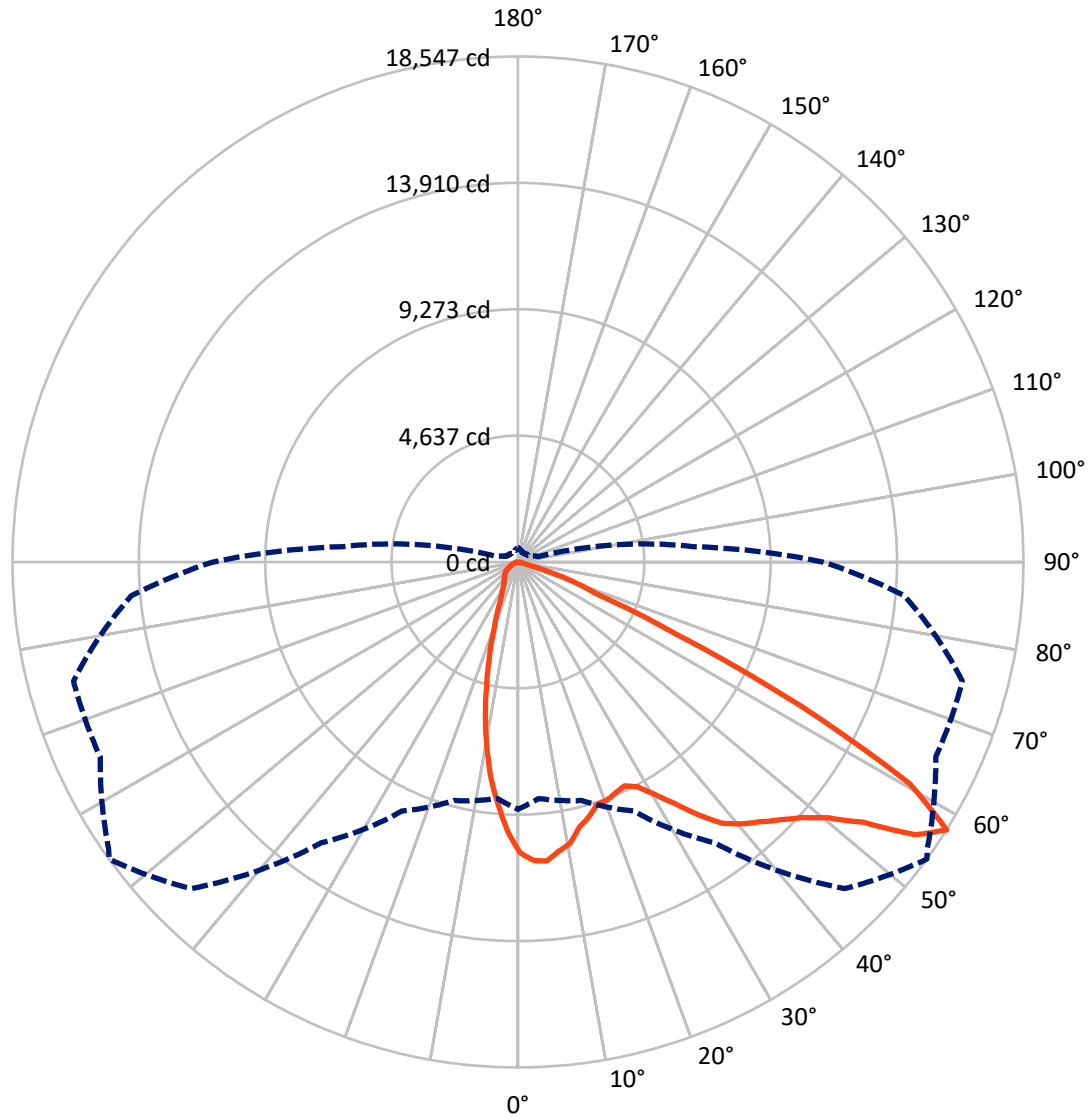
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3426.1	0.0	3426.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	20817.9	0.0	20817.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	24244.0	0.0	24244.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	893.7	3.7
10°-20°	1908.0	7.9
20°-30°	2528.5	10.4
30°-40°	3674.7	15.2
40°-50°	5449.1	22.5
50°-60°	6813.8	28.1
60°-70°	2687.7	11.1
70°-80°	267.6	1.1
80°-90°	20.8	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°	24244.0	100.0
0°-180°	24244.0	100.0

**Coefficient of Utilization**



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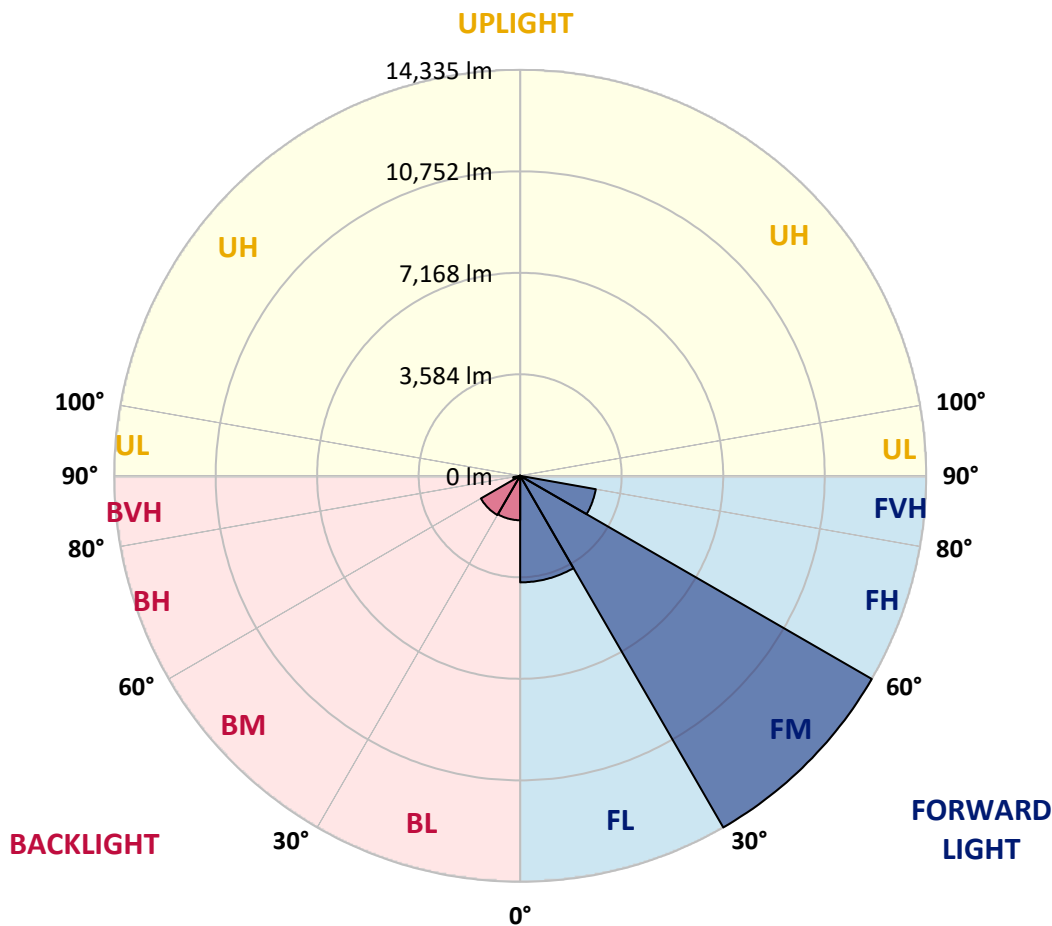
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.4	15.5			
FM (30°-60°)	14335.4	59.1			
FH (60°-80°)	2709.7	11.2			G2/5000
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	1566.9	6.5	B3/2500		
BM (30°-60°)	1602.1	6.6	B2/2500		
BH (60°-80°)	245.7	1.0	B1/500		G1/500
BVH (80°-90°)	11.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8
2.5°	11301.9	11184.7	11193.7	11153.2	11099.1	11139.6	10963.8	11004.4	10999.9	10761.0	10603.2
5°	11017.9	11144.1	11013.4	11121.6	11017.9	11130.6	11022.4	10941.3	10810.5	10634.7	10341.7
7.5°	10535.5	10413.8	10449.9	10585.1	10607.7	10860.1	10724.9	10828.6	10774.5	10427.4	10026.1
10°	9566.3	9539.2	9719.6	9899.9	10120.8	10391.3	10495.0	10436.4	10395.8	10265.1	9728.6
12.5°	8822.5	8899.1	8894.6	9192.1	9566.3	9719.6	9990.1	9981.0	10206.5	9963.0	9449.1
15°	8114.7	8155.2	8344.6	8529.4	8944.2	9381.5	9715.1	9760.1	10030.6	9859.3	9232.7
17.5°	7681.9	7623.3	7772.1	7993.0	8416.7	8989.3	9358.9	9467.1	9836.8	9800.7	8984.7
20°	7253.6	7253.6	7375.3	7636.8	8024.5	8669.2	9327.4	9295.8	9836.8	9733.1	8718.8
22.5°	7109.4	7181.5	7213.0	7411.4	7871.2	8425.7	9192.1	9250.7	9913.4	9701.5	8601.6
25°	7307.7	7213.0	7222.1	7379.8	7812.6	8308.5	9092.9	9223.7	10053.2	9859.3	8506.9
27.5°	7339.3	7433.9	7461.0	7569.2	7857.7	8344.6	9340.9	9606.9	10400.3	10229.0	8533.9
30°	7614.3	7708.9	7704.4	7889.3	8087.6	8637.6	9895.4	9949.5	11117.1	10693.3	8700.7
32.5°	7947.9	8047.0	8078.6	8295.0	8452.8	9174.1	10571.6	10711.4	11806.8	11423.7	9138.0
35°	8362.6	8326.6	8470.8	8687.2	9025.3	9958.5	11396.6	11631.0	12550.7	12370.4	9588.8
37.5°	8881.1	8836.0	8975.7	9327.4	9787.2	10887.2	12158.5	12311.8	13091.7	13249.5	10422.8
40°	9246.2	9264.2	9688.0	10161.4	10648.3	11770.8	12640.9	12789.6	13470.4	14069.9	11054.0
42.5°	9854.8	9967.5	10476.9	11054.0	11563.4	12433.5	13033.1	13177.3	13646.2	14728.1	11906.0
45°	10738.4	10688.8	11252.3	11897.0	12460.5	13123.2	13497.4	13447.8	13749.9	15381.8	12442.5
47.5°	11874.5	11883.5	12257.7	12807.7	13393.7	13722.8	14015.8	13840.0	13966.3	16071.6	13159.3
50°	12649.9	12717.5	13019.5	13583.1	13876.1	14381.0	14755.2	14647.0	14606.4	16486.3	13610.1
52.5°	12848.2	13051.1	13213.4	13916.7	14601.9	15399.8	15877.7	16107.6	15386.3	16626.1	14182.6
55°	11351.5	11531.8	12104.4	13069.1	14876.9	17013.8	17671.9	17676.5	16405.2	17248.2	14583.9
57.5°	9074.9	8709.7	9061.4	10084.7	12577.7	16946.1	18546.5	18334.6	16914.6	16883.0	14236.7
60°	6275.3	6185.2	6207.7	6613.5	8705.2	13479.4	16526.9	16801.9	15575.7	14633.5	11270.4
62.5°	4972.5	4895.9	4796.7	4751.6	5405.3	8398.7	11658.1	12045.8	10891.7	9489.7	6681.1
65°	3895.0	3850.0	3863.5	4043.8	4039.3	4765.1	6374.5	6216.7	4977.0	3678.7	2100.8
67.5°	2628.3	2695.9	2750.0	3295.5	3575.0	3318.0	3079.1	2988.9	1618.4	680.7	464.3
70°	1478.7	1487.7	1546.3	2060.2	2713.9	2574.2	2123.3	2123.3	807.0	247.9	266.0
72.5°	807.0	779.9	725.8	888.1	1208.2	1226.2	946.7	825.0	238.9	162.3	148.8
75°	392.2	387.7	333.6	275.0	261.5	216.4	166.8	153.3	108.2	103.7	90.2
77.5°	81.1	76.6	40.6	40.6	45.1	49.6	63.1	63.1	76.6	76.6	63.1
80°	0.0	0.0	4.5	18.0	31.6	45.1	54.1	54.1	63.1	63.1	49.6
82.5°	0.0	0.0	4.5	13.5	27.0	40.6	49.6	54.1	63.1	67.6	54.1
85°	0.0	0.0	0.0	9.0	22.5	31.6	27.0	27.0	22.5	18.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8	10679.8
2.5°	10522.0	10513.0	10305.6	10188.4	9976.5	9791.7	9642.9	9534.7	9534.7	9467.1	9404.0
5°	10224.5	10147.8	9706.0	9422.0	9020.8	8723.3	8520.4	8362.6	8114.7	8182.3	7916.3
7.5°	9854.8	9661.0	9074.9	8642.1	8087.6	7663.9	7231.1	6847.9	6478.2	6311.4	6401.6
10°	9458.1	9120.0	8331.1	7645.8	6956.1	6180.7	5675.8	5062.7	4684.0	4661.4	4562.2
12.5°	9038.8	8655.6	7695.4	6748.7	5842.6	4909.4	4138.5	3565.9	3309.0	3025.0	3079.1
15°	8723.3	8155.2	6987.6	5847.1	4643.4	3701.2	2925.8	2484.0	2240.6	2172.9	2150.4
17.5°	8380.7	7772.1	6266.3	4886.8	3642.6	2664.3	2105.3	1893.4	1798.8	1798.8	1785.2
20°	8024.5	7339.3	5549.5	3994.2	2731.9	1988.1	1686.0	1618.4	1613.9	1609.4	1609.4
22.5°	7790.1	6843.4	4900.4	3173.7	2060.2	1591.4	1465.1	1438.1	1456.1	1510.2	1510.2
25°	7542.1	6365.5	4183.6	2447.9	1595.9	1366.0	1293.8	1311.9	1357.0	1406.5	1388.5
27.5°	7289.7	6054.4	3507.3	1920.5	1307.4	1194.7	1167.6	1208.2	1257.8	1302.9	1289.3
30°	7231.1	5720.8	2867.2	1456.1	1122.5	1041.4	1059.4	1095.5	1145.1	1163.1	1181.1
32.5°	7321.2	5459.4	2348.7	1194.7	978.3	955.7	955.7	973.8	1005.3	1045.9	1032.4
35°	7578.2	5310.6	1857.4	1036.9	897.1	874.6	870.1	888.1	906.1	919.7	906.1
37.5°	7970.4	5193.4	1519.2	919.7	843.0	807.0	797.9	793.4	811.5	816.0	825.0
40°	8470.8	5256.5	1289.3	847.5	788.9	748.4	721.3	721.3	721.3	734.8	739.3
42.5°	9011.8	5342.2	1113.5	807.0	739.3	689.7	662.7	653.7	662.7	680.7	676.2
45°	9579.8	5509.0	1000.8	743.8	694.3	631.1	595.1	586.1	608.6	644.7	640.2
47.5°	10111.8	5747.9	915.2	703.3	649.2	590.6	545.5	536.5	577.0	626.6	631.1
50°	10643.7	6162.6	883.6	671.7	617.6	550.0	509.4	500.4	545.5	608.6	622.1
52.5°	11256.9	6608.9	861.1	631.1	581.6	518.4	473.4	464.3	513.9	595.1	599.6
55°	11658.1	6987.6	843.0	559.0	513.9	468.8	432.8	428.3	482.4	554.5	572.5
57.5°	11189.2	6460.2	779.9	486.9	437.3	414.7	383.2	383.2	428.3	495.9	509.4
60°	8484.3	4251.2	554.5	392.2	369.7	356.1	342.6	342.6	378.7	428.3	432.8
62.5°	4968.0	2290.1	356.1	315.6	315.6	302.0	279.5	279.5	315.6	342.6	347.1
65°	1474.2	734.8	288.5	270.5	266.0	243.4	220.9	216.4	243.4	257.0	252.5
67.5°	423.8	338.1	238.9	225.4	220.9	184.8	171.3	166.8	171.3	162.3	157.8
70°	252.5	229.9	184.8	189.3	166.8	135.2	121.7	117.2	108.2	94.7	85.7
72.5°	139.8	139.8	135.2	144.3	117.2	90.2	76.6	63.1	49.6	40.6	36.1
75°	85.7	90.2	94.7	99.2	76.6	58.6	49.6	31.6	18.0	9.0	9.0
77.5°	58.6	63.1	67.6	72.1	63.1	54.1	40.6	22.5	4.5	0.0	0.0
80°	45.1	49.6	58.6	63.1	67.6	72.1	54.1	22.5	4.5	0.0	0.0
82.5°	49.6	54.1	67.6	63.1	63.1	63.1	49.6	22.5	4.5	0.0	0.0
85°	9.0	13.5	22.5	22.5	31.6	40.6	31.6	9.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)