

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: P648153

Luminaire Tested: **GALN-SA9A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648153
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-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 18983 lumens
Efficiency: N/A
Efficacy: 69.3 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

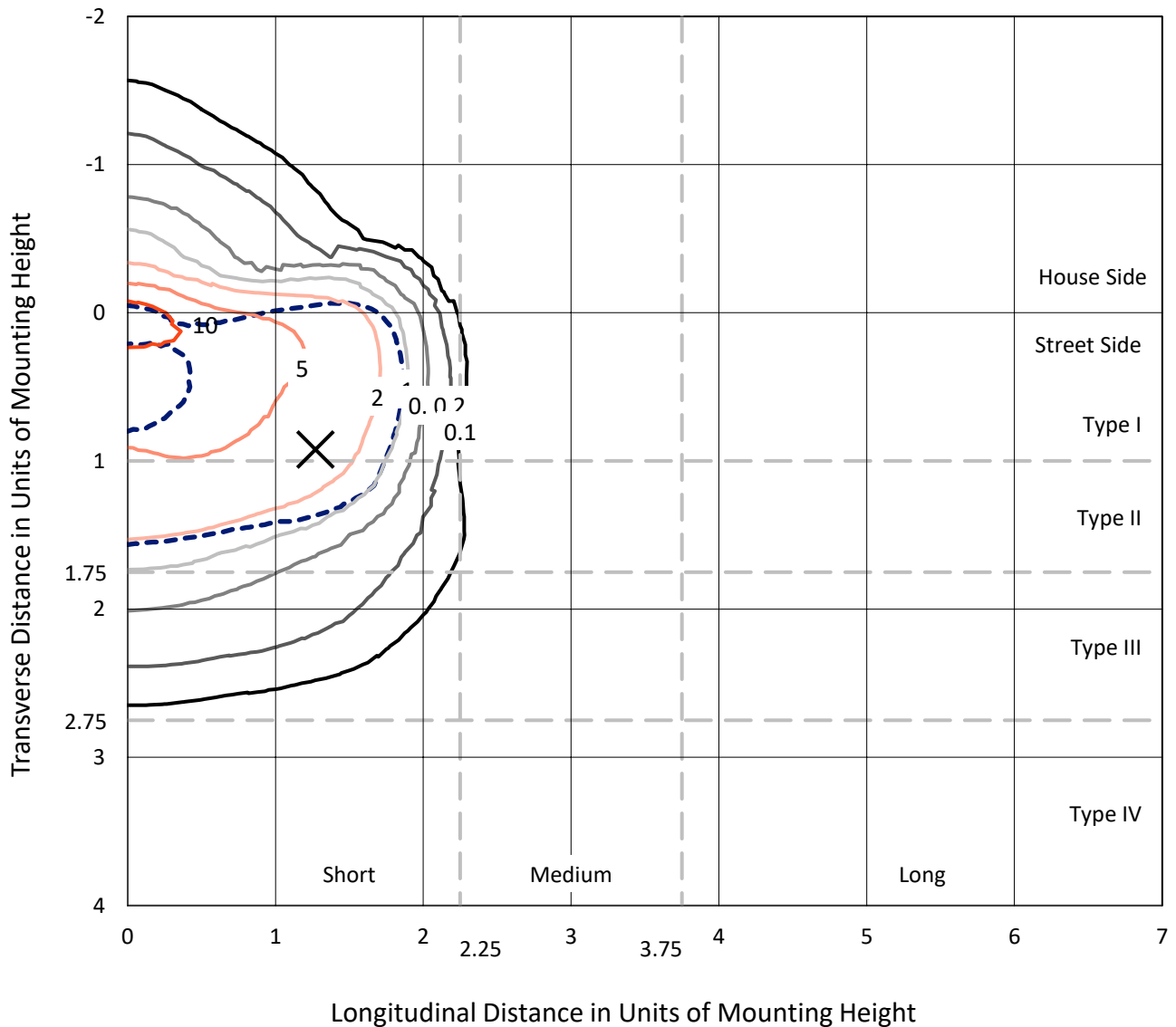
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

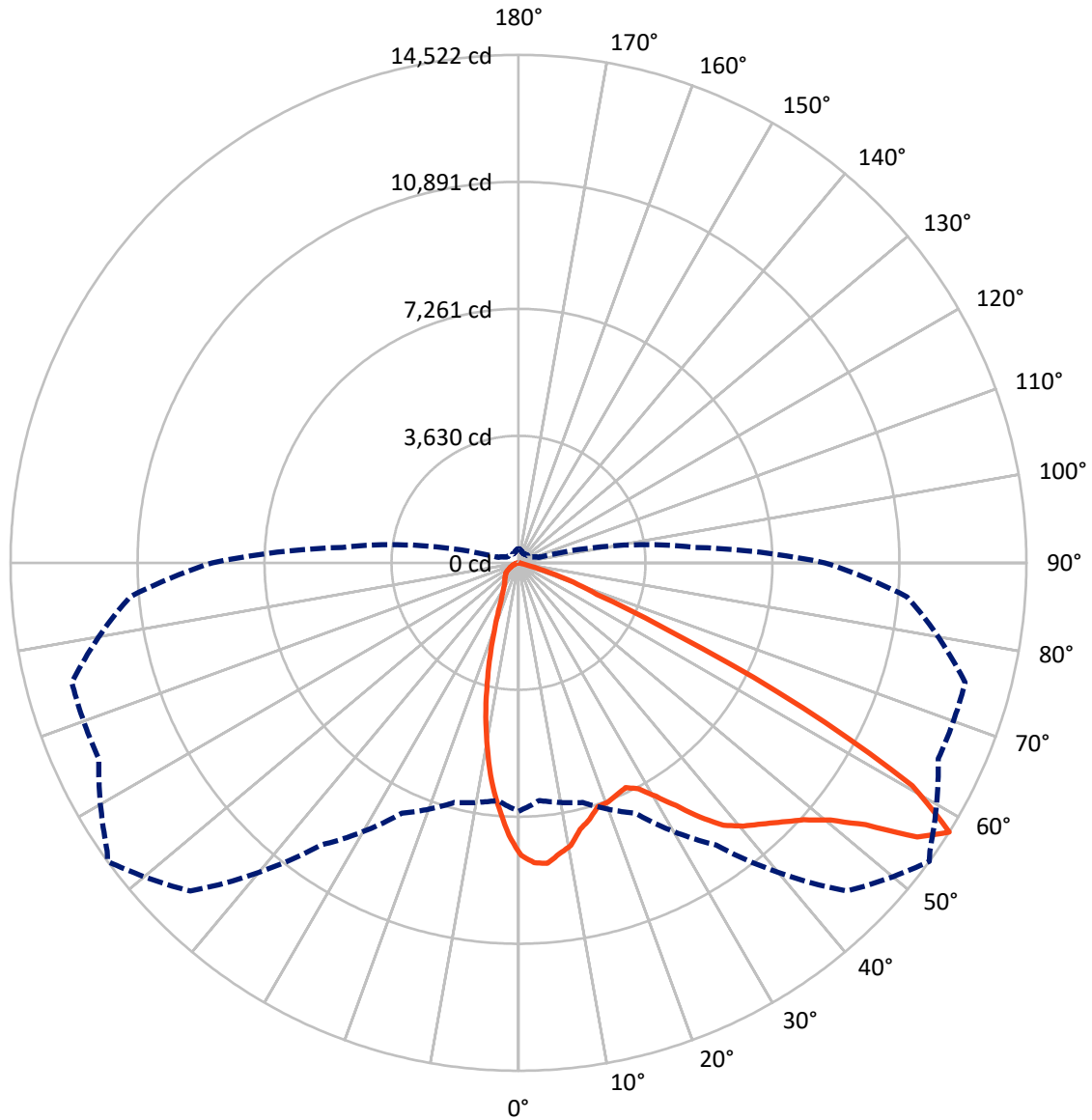
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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
House Side	Lumens	2682.6	0.0	2682.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16300.4	0.0	16300.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	18983.0	0.0	18983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.8	3.7
10°-20°	1494.0	7.9
20°-30°	1979.8	10.4
30°-40°	2877.3	15.2
40°-50°	4266.6	22.5
50°-60°	5335.2	28.1
60°-70°	2104.5	11.1
70°-80°	209.5	1.1
80°-90°	16.3	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°	18983.0	100.0
0°-180°	18983.0	100.0

Coefficient of Utilization



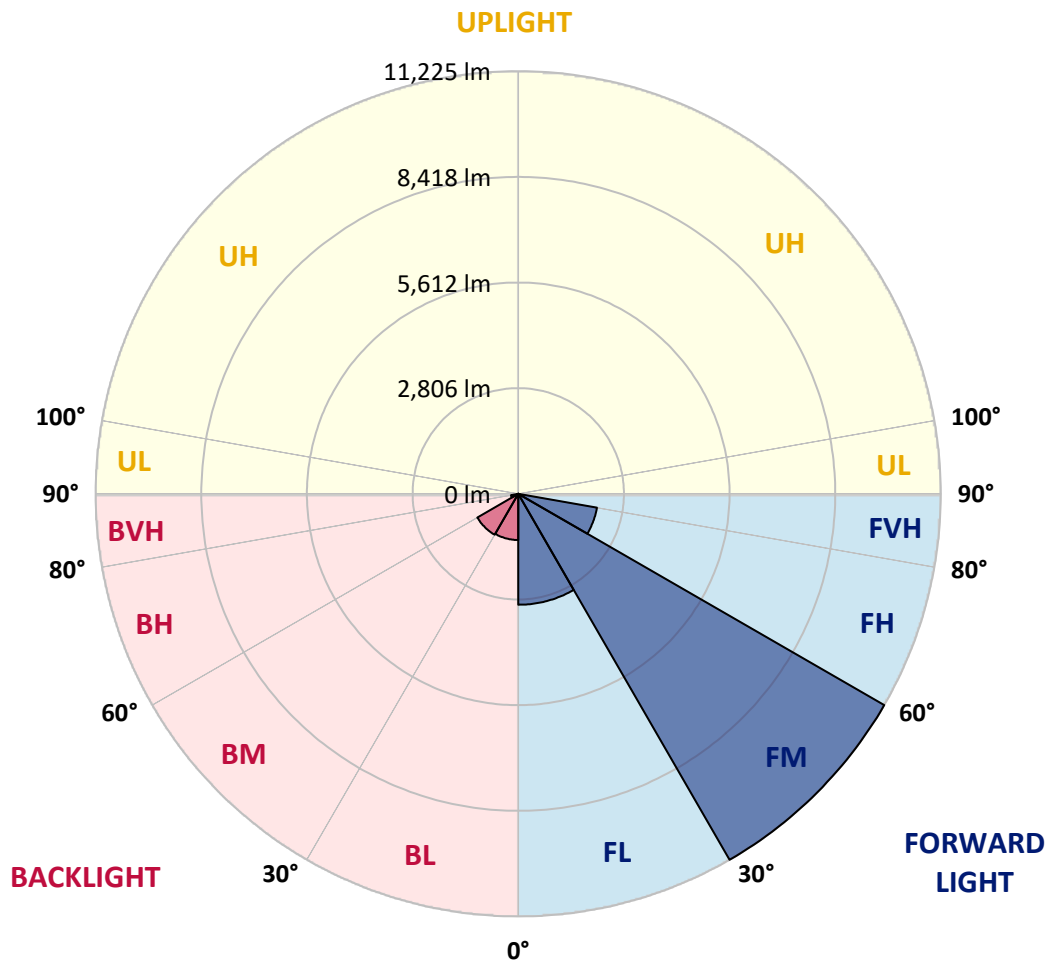
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2946.7	15.5			
FM (30°-60°)	11224.6	59.1			
FH (60°-80°)	2121.7	11.2			G2/5000
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1226.9	6.5	B3/2500		
BM (30°-60°)	1254.5	6.6	B2/2500		
BH (60°-80°)	192.4	1.0	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
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°	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3
2.5°	8849.4	8757.6	8764.7	8733.0	8690.6	8722.3	8584.7	8616.4	8612.9	8425.9	8302.3
5°	8627.0	8725.8	8623.5	8708.2	8627.0	8715.3	8630.5	8567.0	8464.6	8327.0	8097.6
7.5°	8249.3	8154.0	8182.3	8288.1	8305.8	8503.5	8397.6	8478.8	8436.4	8164.7	7850.4
10°	7490.4	7469.2	7610.4	7751.6	7924.6	8136.4	8217.6	8171.7	8139.9	8037.6	7617.5
12.5°	6908.0	6968.0	6964.5	7197.4	7490.4	7610.4	7822.2	7815.1	7991.7	7801.0	7398.6
15°	6353.8	6385.5	6533.8	6678.5	7003.3	7345.7	7606.9	7642.2	7854.0	7719.8	7229.2
17.5°	6014.9	5969.0	6085.6	6258.5	6590.3	7038.6	7328.0	7412.7	7702.2	7673.9	7035.0
20°	5679.6	5679.6	5774.9	5979.6	6283.2	6788.0	7303.4	7278.6	7702.2	7621.0	6826.8
22.5°	5566.7	5623.1	5647.8	5803.1	6163.1	6597.3	7197.4	7243.3	7762.2	7596.3	6735.1
25°	5721.9	5647.8	5654.9	5778.4	6117.3	6505.6	7119.7	7222.2	7871.7	7719.8	6660.9
27.5°	5746.7	5820.7	5842.0	5926.7	6152.6	6533.8	7313.9	7522.2	8143.4	8009.3	6682.0
30°	5962.0	6036.1	6032.5	6177.3	6332.6	6763.2	7748.1	7790.5	8704.7	8372.9	6812.6
32.5°	6223.2	6300.8	6325.5	6495.0	6618.5	7183.3	8277.6	8387.0	9244.7	8944.8	7155.1
35°	6547.9	6519.7	6632.6	6802.1	7066.8	7797.5	8923.5	9107.1	9827.2	9686.0	7508.0
37.5°	6953.9	6918.6	7028.0	7303.4	7663.4	8524.7	9520.1	9640.1	10250.8	10374.4	8161.1
40°	7239.8	7253.9	7585.7	7956.4	8337.6	9216.5	9897.8	10014.3	10547.3	11016.7	8655.3
42.5°	7716.3	7804.6	8203.4	8655.3	9054.1	9735.4	10204.9	10317.8	10685.0	11532.1	9322.4
45°	8408.2	8369.3	8810.6	9315.4	9756.6	10275.5	10568.5	10529.6	10766.2	12043.9	9742.5
47.5°	9297.7	9304.8	9597.8	10028.4	10487.3	10745.0	10974.4	10836.7	10935.6	12584.1	10303.7
50°	9904.9	9957.8	10194.3	10635.6	10865.0	11260.3	11553.3	11468.6	11436.8	12908.8	10656.7
52.5°	10060.1	10219.0	10346.1	10896.8	11433.3	12058.0	12432.2	12612.3	12047.5	13018.2	11105.0
55°	8888.2	9029.4	9477.7	10233.1	11648.6	13321.8	13837.1	13840.7	12845.3	13505.3	11419.2
57.5°	7105.6	6819.7	7095.1	7896.3	9848.3	13268.8	14521.9	14356.0	13244.1	13219.4	11147.3
60°	4913.6	4843.0	4860.6	5178.4	6816.2	10554.4	12940.6	13155.9	12195.8	11458.0	8824.7
62.5°	3893.5	3833.5	3755.8	3720.5	4232.3	6576.2	9128.3	9431.9	8528.2	7430.4	5231.3
65°	3049.8	3014.6	3025.1	3166.3	3162.8	3731.1	4991.2	4867.7	3897.0	2880.4	1644.9
67.5°	2058.0	2110.9	2153.2	2580.4	2799.2	2598.0	2410.9	2340.3	1267.2	533.0	363.5
70°	1157.8	1164.9	1210.8	1613.1	2125.0	2015.6	1662.5	1662.5	631.9	194.1	208.3
72.5°	631.9	610.7	568.3	695.4	946.0	960.1	741.3	646.0	187.1	127.1	116.5
75°	307.1	303.6	261.2	215.3	204.8	169.4	130.6	120.0	84.7	81.2	70.6
77.5°	63.5	60.0	31.8	31.8	35.3	38.8	49.4	49.4	60.0	60.0	49.4
80°	0.0	0.0	3.5	14.1	24.7	35.3	42.4	42.4	49.4	49.4	38.8
82.5°	0.0	0.0	3.5	10.6	21.1	31.8	38.8	42.4	49.4	52.9	42.4
85°	0.0	0.0	0.0	7.0	17.6	24.7	21.1	21.1	17.6	14.1	7.0
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°	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3	8362.3
2.5°	8238.7	8231.7	8069.3	7977.5	7811.6	7666.9	7550.4	7465.7	7465.7	7412.7	7363.3
5°	8005.8	7945.7	7599.8	7377.4	7063.3	6830.3	6671.5	6547.9	6353.8	6406.7	6198.5
7.5°	7716.3	7564.6	7105.6	6766.8	6332.6	6000.8	5662.0	5361.9	5072.4	4941.8	5012.5
10°	7405.7	7141.0	6523.3	5986.7	5446.6	4839.5	4444.2	3964.1	3667.6	3649.9	3572.2
12.5°	7077.4	6777.3	6025.5	5284.2	4574.8	3844.1	3240.4	2792.1	2590.9	2368.6	2410.9
15°	6830.3	6385.5	5471.3	4578.3	3635.8	2898.0	2290.9	1945.0	1754.4	1701.4	1683.8
17.5°	6562.1	6085.6	4906.5	3826.4	2852.2	2086.1	1648.4	1482.5	1408.5	1408.5	1397.8
20°	6283.2	5746.7	4345.3	3127.5	2139.1	1556.7	1320.1	1267.2	1263.7	1260.2	1260.2
22.5°	6099.6	5358.4	3837.0	2485.0	1613.1	1246.1	1147.2	1126.0	1140.1	1182.5	1182.5
25°	5905.5	4984.2	3275.8	1916.7	1249.6	1069.6	1013.0	1027.2	1062.5	1101.3	1087.2
27.5°	5707.8	4740.6	2746.2	1503.8	1023.7	935.5	914.2	946.0	984.9	1020.2	1009.5
30°	5662.0	4479.4	2245.0	1140.1	878.9	815.4	829.5	857.8	896.6	910.7	924.8
32.5°	5732.5	4274.7	1839.0	935.5	766.0	748.3	748.3	762.5	787.1	818.9	808.4
35°	5933.7	4158.2	1454.3	811.9	702.4	684.8	681.3	695.4	709.5	720.1	709.5
37.5°	6240.8	4066.4	1189.5	720.1	660.1	631.9	624.8	621.2	635.4	638.9	646.0
40°	6632.6	4115.8	1009.5	663.6	617.7	586.0	564.8	564.8	564.8	575.3	578.9
42.5°	7056.2	4182.9	871.9	631.9	578.9	540.0	518.9	511.8	518.9	533.0	529.5
45°	7501.0	4313.5	783.6	582.4	543.6	494.2	466.0	458.9	476.5	504.8	501.3
47.5°	7917.5	4500.6	716.6	550.7	508.3	462.4	427.1	420.1	451.8	490.6	494.2
50°	8334.0	4825.3	691.9	525.9	483.6	430.6	398.9	391.8	427.1	476.5	487.1
52.5°	8814.2	5174.8	674.2	494.2	455.4	405.9	370.7	363.5	402.4	466.0	469.5
55°	9128.3	5471.3	660.1	437.7	402.4	367.1	338.9	335.4	377.7	434.2	448.3
57.5°	8761.1	5058.3	610.7	381.2	342.4	324.7	300.0	300.0	335.4	388.3	398.9
60°	6643.2	3328.7	434.2	307.1	289.5	278.8	268.3	268.3	296.5	335.4	338.9
62.5°	3889.9	1793.1	278.8	247.1	247.1	236.5	218.8	218.8	247.1	268.3	271.8
65°	1154.3	575.3	225.9	211.8	208.3	190.6	173.0	169.4	190.6	201.2	197.7
67.5°	331.8	264.7	187.1	176.5	173.0	144.7	134.1	130.6	134.1	127.1	123.6
70°	197.7	180.0	144.7	148.2	130.6	105.9	95.3	91.8	84.7	74.2	67.1
72.5°	109.5	109.5	105.9	113.0	91.8	70.6	60.0	49.4	38.8	31.8	28.3
75°	67.1	70.6	74.2	77.7	60.0	45.9	38.8	24.7	14.1	7.0	7.0
77.5°	45.9	49.4	52.9	56.5	49.4	42.4	31.8	17.6	3.5	0.0	0.0
80°	35.3	38.8	45.9	49.4	52.9	56.5	42.4	17.6	3.5	0.0	0.0
82.5°	38.8	42.4	52.9	49.4	49.4	49.4	38.8	17.6	3.5	0.0	0.0
85°	7.0	10.6	17.6	17.6	24.7	31.8	24.7	7.0	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)