

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: P533693

Luminaire Tested: **GALN-SA9A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533693
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-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 17823 lumens
Efficiency: N/A
Efficacy: 65.0 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

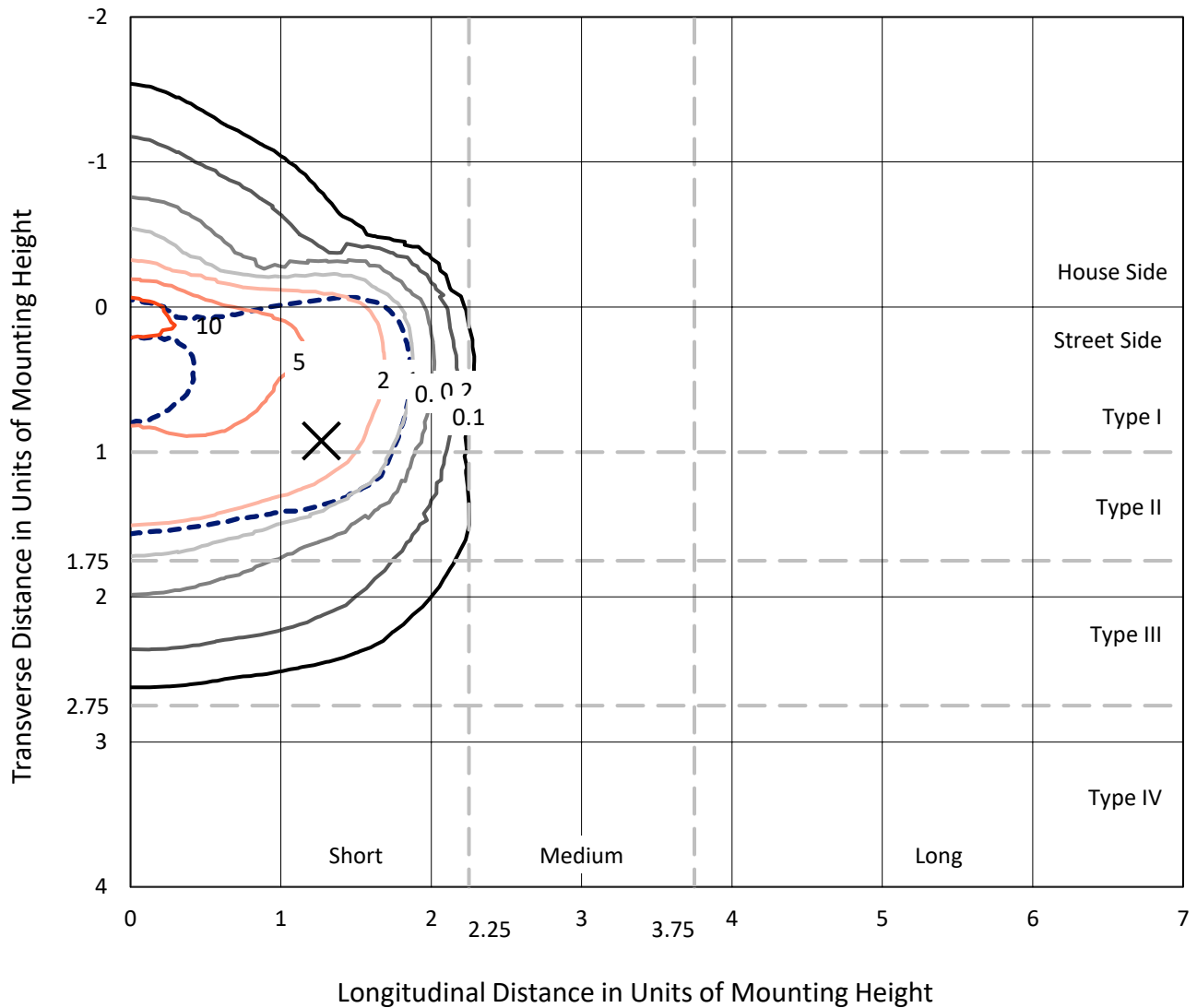
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

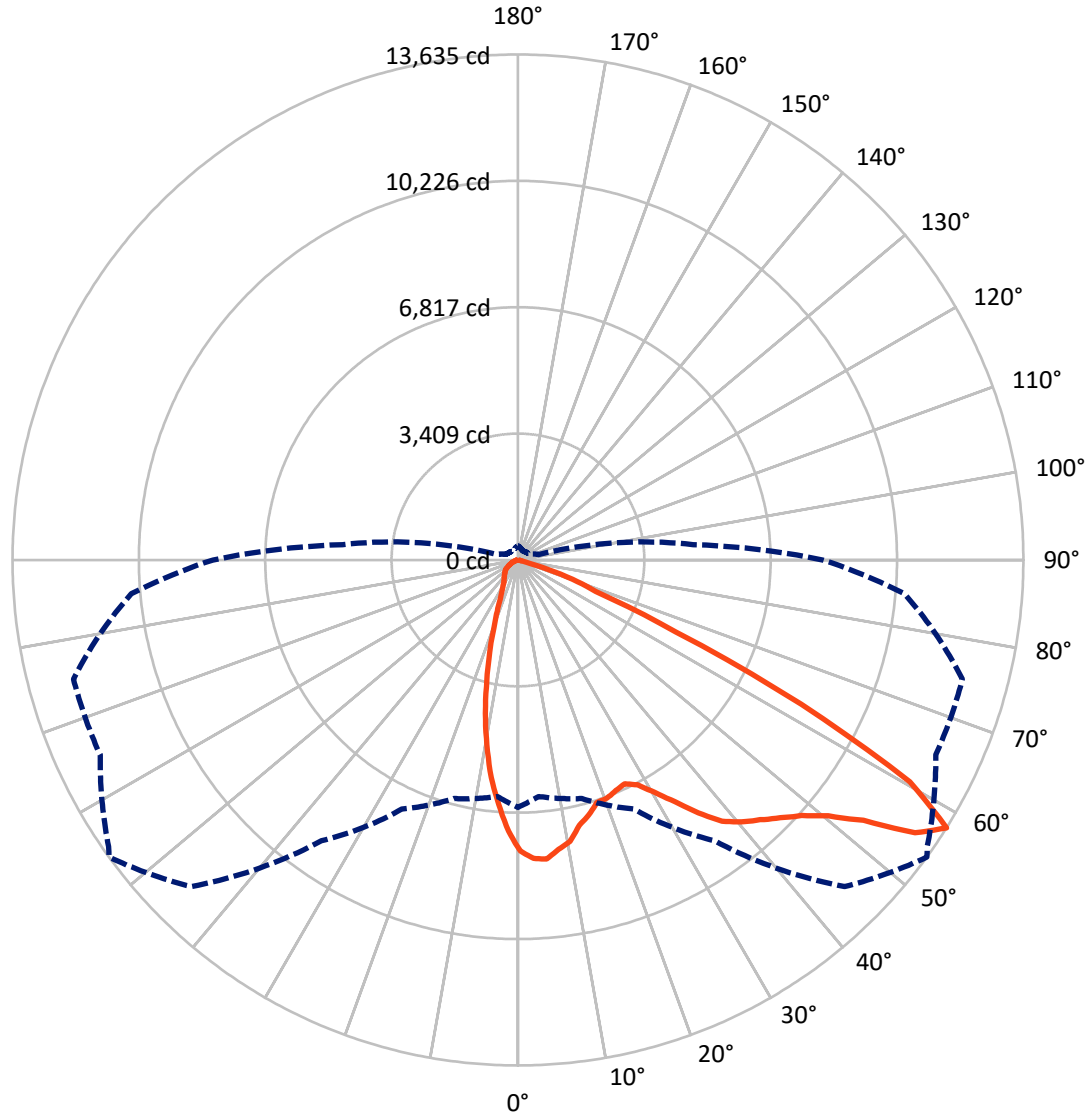
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	2518.7	0.0	2518.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15304.3	0.0	15304.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	17823.0	0.0	17823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.0	3.7
10°-20°	1402.7	7.9
20°-30°	1858.9	10.4
30°-40°	2701.4	15.2
40°-50°	4005.9	22.5
50°-60°	5009.2	28.1
60°-70°	1975.9	11.1
70°-80°	196.7	1.1
80°-90°	15.3	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°	17823.0	100.0
0°-180°	17823.0	100.0

Coefficient of Utilization



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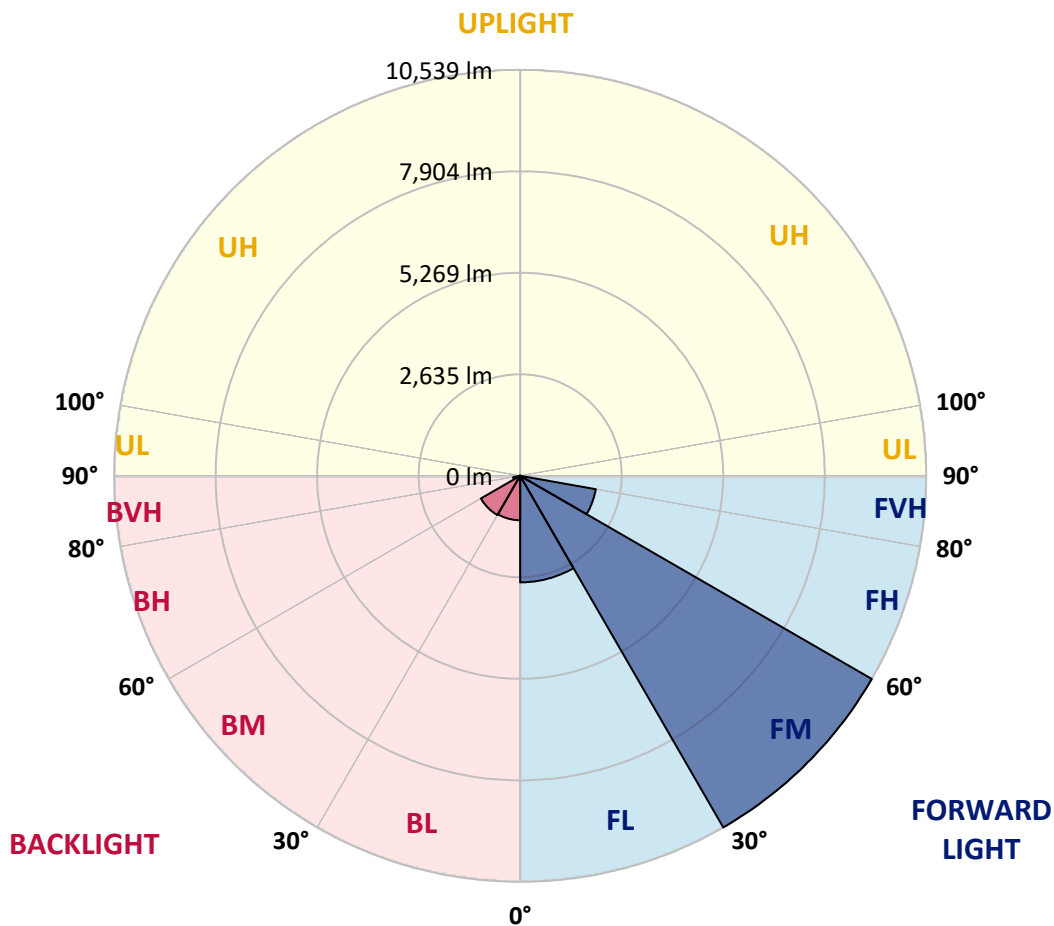
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2766.6	15.5			
FM (30°-60°)	10538.7	59.1			
FH (60°-80°)	1992.0	11.2			G2/5000
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	1151.9	6.5	B3/2500		
BM (30°-60°)	1177.8	6.6	B2/2500		
BH (60°-80°)	180.6	1.0	B1/500		G1/500
BVH (80°-90°)	8.4	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°	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3
2.5°	8308.6	8222.5	8229.1	8199.3	8159.5	8189.3	8060.1	8089.9	8086.6	7910.9	7794.9
5°	8099.8	8192.6	8096.5	8176.1	8099.8	8182.7	8103.1	8043.5	7947.4	7818.1	7602.7
7.5°	7745.2	7655.7	7682.2	7781.7	7798.2	7983.8	7884.4	7960.6	7920.9	7665.7	7370.7
10°	7032.7	7012.8	7145.4	7277.9	7440.3	7639.2	7715.4	7672.3	7642.5	7546.4	7152.0
12.5°	6485.8	6542.2	6538.9	6757.6	7032.7	7145.4	7344.2	7337.6	7503.3	7324.3	6946.5
15°	5965.5	5995.3	6134.5	6270.4	6575.3	6896.8	7142.0	7175.2	7374.0	7248.1	6787.4
17.5°	5647.3	5604.3	5713.6	5876.0	6187.6	6608.5	6880.2	6959.8	7231.5	7205.0	6605.1
20°	5332.5	5332.5	5422.0	5614.2	5899.2	6373.2	6857.0	6833.8	7231.5	7155.3	6409.6
22.5°	5226.4	5279.5	5302.7	5448.5	5786.5	6194.2	6757.6	6800.7	7287.9	7132.1	6323.4
25°	5372.3	5302.7	5309.3	5425.3	5743.5	6108.0	6684.7	6780.8	7390.6	7248.1	6253.8
27.5°	5395.5	5465.1	5485.0	5564.5	5776.6	6134.5	6867.0	7062.5	7645.8	7519.9	6273.7
30°	5597.6	5667.2	5663.9	5799.8	5945.6	6350.0	7274.6	7314.4	8172.7	7861.2	6396.4
32.5°	5842.9	5915.8	5939.0	6098.1	6214.1	6744.3	7771.7	7874.5	8679.8	8398.1	6717.8
35°	6147.8	6121.3	6227.3	6386.4	6635.0	7321.0	8378.2	8550.6	9226.7	9094.1	7049.2
37.5°	6528.9	6495.8	6598.5	6857.0	7195.1	8003.7	8938.3	9051.0	9624.4	9740.3	7662.4
40°	6797.4	6810.6	7122.2	7470.1	7828.1	8653.3	9292.9	9402.3	9902.7	10343.5	8126.3
42.5°	7244.8	7327.6	7702.1	8126.3	8500.8	9140.5	9581.3	9687.3	10032.0	10827.4	8752.7
45°	7894.4	7857.9	8272.2	8746.1	9160.4	9647.6	9922.6	9886.2	10108.2	11308.0	9147.1
47.5°	8729.5	8736.2	9011.2	9415.6	9846.4	10088.3	10303.8	10174.5	10267.3	11815.0	9674.1
50°	9299.6	9349.3	9571.3	9985.6	10201.0	10572.2	10847.3	10767.7	10737.9	12119.9	10005.5
52.5°	9445.4	9594.5	9713.8	10230.8	10734.6	11321.2	11672.5	11841.5	11311.3	12222.7	10426.4
55°	8345.1	8477.6	8898.5	9607.8	10936.8	12507.7	12991.6	12994.9	12060.3	12680.0	10721.3
57.5°	6671.4	6403.0	6661.5	7413.8	9246.5	12458.0	13634.5	13478.7	12434.8	12411.6	10466.2
60°	4613.3	4547.0	4563.6	4861.9	6399.7	9909.4	12149.8	12351.9	11450.5	10757.8	8285.4
62.5°	3655.5	3599.2	3526.3	3493.1	3973.7	6174.3	8570.4	8855.5	8007.0	6976.3	4911.6
65°	2863.4	2830.3	2840.2	2972.8	2969.5	3503.1	4686.2	4570.2	3658.8	2704.4	1544.4
67.5°	1932.2	1981.9	2021.6	2422.7	2628.1	2439.2	2263.6	2197.3	1189.8	500.4	341.4
70°	1087.0	1093.7	1136.8	1514.6	1995.1	1892.4	1561.0	1561.0	593.2	182.3	195.5
72.5°	593.2	573.4	533.6	652.9	888.2	901.5	696.0	606.5	175.7	119.3	109.4
75°	288.3	285.0	245.2	202.2	192.2	159.1	122.6	112.7	79.5	76.2	66.3
77.5°	59.7	56.3	29.8	29.8	33.1	36.5	46.4	46.4	56.3	56.3	46.4
80°	0.0	0.0	3.3	13.3	23.2	33.1	39.8	39.8	46.4	46.4	36.5
82.5°	0.0	0.0	3.3	9.9	19.9	29.8	36.5	39.8	46.4	49.7	39.8
85°	0.0	0.0	0.0	6.6	16.6	23.2	19.9	19.9	16.6	13.3	6.6
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°	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3	7851.3
2.5°	7735.3	7728.6	7576.2	7490.0	7334.3	7198.4	7089.0	7009.5	7009.5	6959.8	6913.4
5°	7516.5	7460.2	7135.4	6926.6	6631.7	6412.9	6263.8	6147.8	5965.5	6015.2	5819.7
7.5°	7244.8	7102.3	6671.4	6353.3	5945.6	5634.1	5315.9	5034.2	4762.5	4639.8	4706.1
10°	6953.1	6704.6	6124.6	5620.8	5113.8	4543.7	4172.5	3721.8	3443.4	3426.9	3353.9
12.5°	6644.9	6363.2	5657.3	4961.3	4295.2	3609.1	3042.4	2621.5	2432.6	2223.8	2263.6
15°	6412.9	5995.3	5137.0	4298.5	3413.6	2720.9	2150.9	1826.1	1647.1	1597.4	1580.9
17.5°	6161.0	5713.6	4606.7	3592.6	2677.9	1958.7	1547.7	1392.0	1322.4	1322.4	1312.4
20°	5899.2	5395.5	4079.7	2936.4	2008.4	1461.5	1239.5	1189.8	1186.5	1183.2	1183.2
22.5°	5726.9	5030.9	3602.5	2333.2	1514.6	1169.9	1077.1	1057.2	1070.5	1110.2	1110.2
25°	5544.6	4679.6	3075.6	1799.6	1173.2	1004.2	951.2	964.4	997.6	1034.0	1020.8
27.5°	5359.0	4450.9	2578.4	1411.8	961.1	878.3	858.4	888.2	924.7	957.8	947.9
30°	5315.9	4205.7	2107.8	1070.5	825.2	765.6	778.8	805.3	841.8	855.1	868.3
32.5°	5382.2	4013.5	1726.7	878.3	719.2	702.6	702.6	715.9	739.1	768.9	758.9
35°	5571.1	3904.1	1365.4	762.3	659.5	642.9	639.6	652.9	666.1	676.1	666.1
37.5°	5859.5	3817.9	1116.9	676.1	619.8	593.2	586.6	583.3	596.6	599.9	606.5
40°	6227.3	3864.3	947.9	623.1	580.0	550.2	530.3	530.3	530.3	540.2	543.5
42.5°	6625.0	3927.3	818.6	593.2	543.5	507.1	487.2	480.6	487.2	500.4	497.1
45°	7042.6	4049.9	735.7	546.8	510.4	464.0	437.5	430.8	447.4	473.9	470.6
47.5°	7433.7	4225.6	672.8	517.0	477.2	434.2	401.0	394.4	424.2	460.7	464.0
50°	7824.8	4530.5	649.6	493.8	454.0	404.3	374.5	367.9	401.0	447.4	457.4
52.5°	8275.5	4858.6	633.0	464.0	427.5	381.1	348.0	341.4	377.8	437.5	440.8
55°	8570.4	5137.0	619.8	411.0	377.8	344.7	318.2	314.8	354.6	407.6	420.9
57.5°	8225.8	4749.2	573.4	357.9	321.5	304.9	281.7	281.7	314.8	364.6	374.5
60°	6237.3	3125.3	407.6	288.3	271.8	261.8	251.9	251.9	278.4	314.8	318.2
62.5°	3652.2	1683.6	261.8	232.0	232.0	222.0	205.5	205.5	232.0	251.9	255.2
65°	1083.7	540.2	212.1	198.9	195.5	179.0	162.4	159.1	179.0	188.9	185.6
67.5°	311.5	248.6	175.7	165.7	162.4	135.9	125.9	122.6	125.9	119.3	116.0
70°	185.6	169.0	135.9	139.2	122.6	99.4	89.5	86.2	79.5	69.6	63.0
72.5°	102.7	102.7	99.4	106.1	86.2	66.3	56.3	46.4	36.5	29.8	26.5
75°	63.0	66.3	69.6	72.9	56.3	43.1	36.5	23.2	13.3	6.6	6.6
77.5°	43.1	46.4	49.7	53.0	46.4	39.8	29.8	16.6	3.3	0.0	0.0
80°	33.1	36.5	43.1	46.4	49.7	53.0	39.8	16.6	3.3	0.0	0.0
82.5°	36.5	39.8	49.7	46.4	46.4	46.4	36.5	16.6	3.3	0.0	0.0
85°	6.6	9.9	16.6	16.6	23.2	29.8	23.2	6.6	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)