

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: P459516

Luminaire Tested: **GALN-SA9C-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44384 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

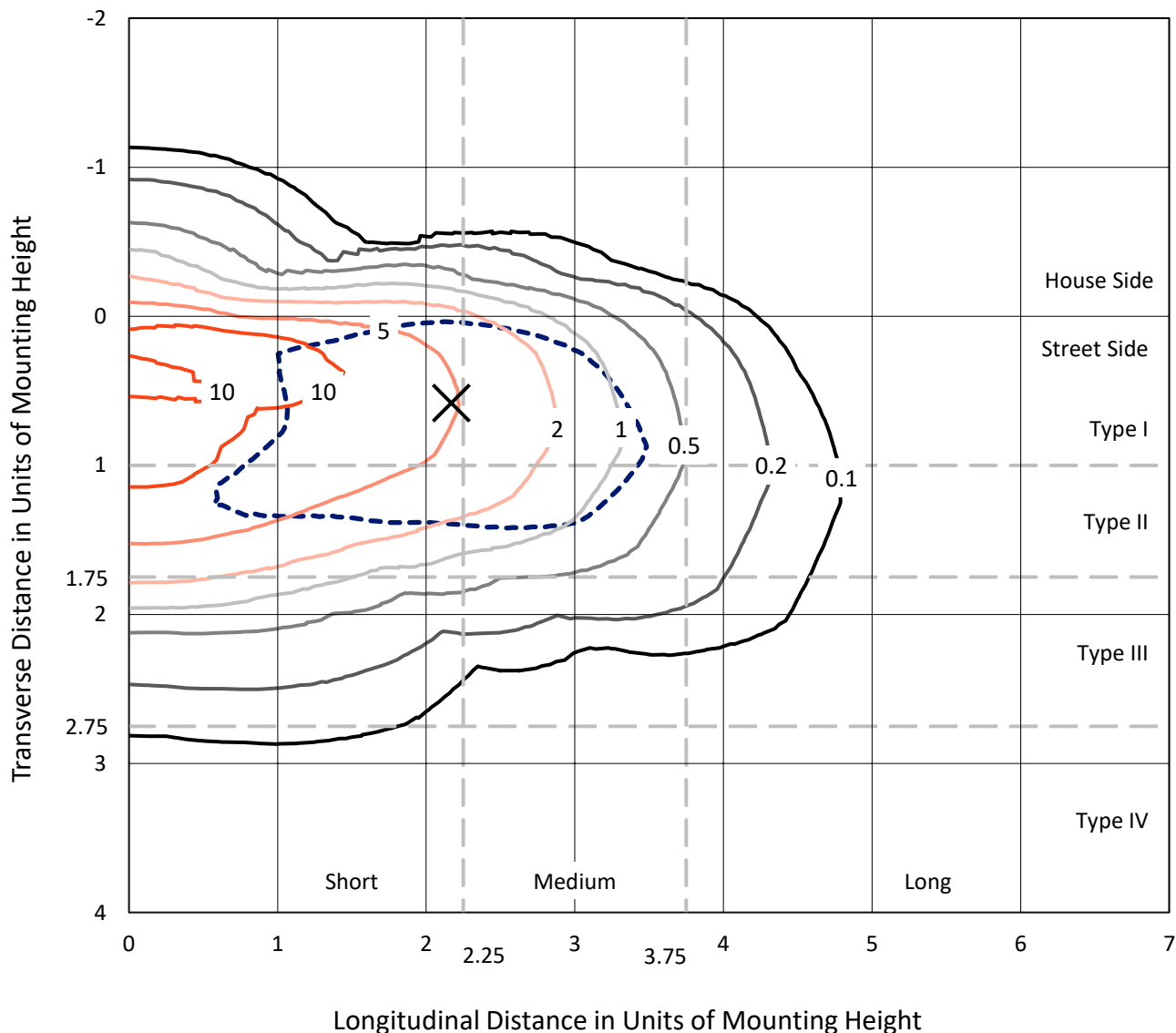
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

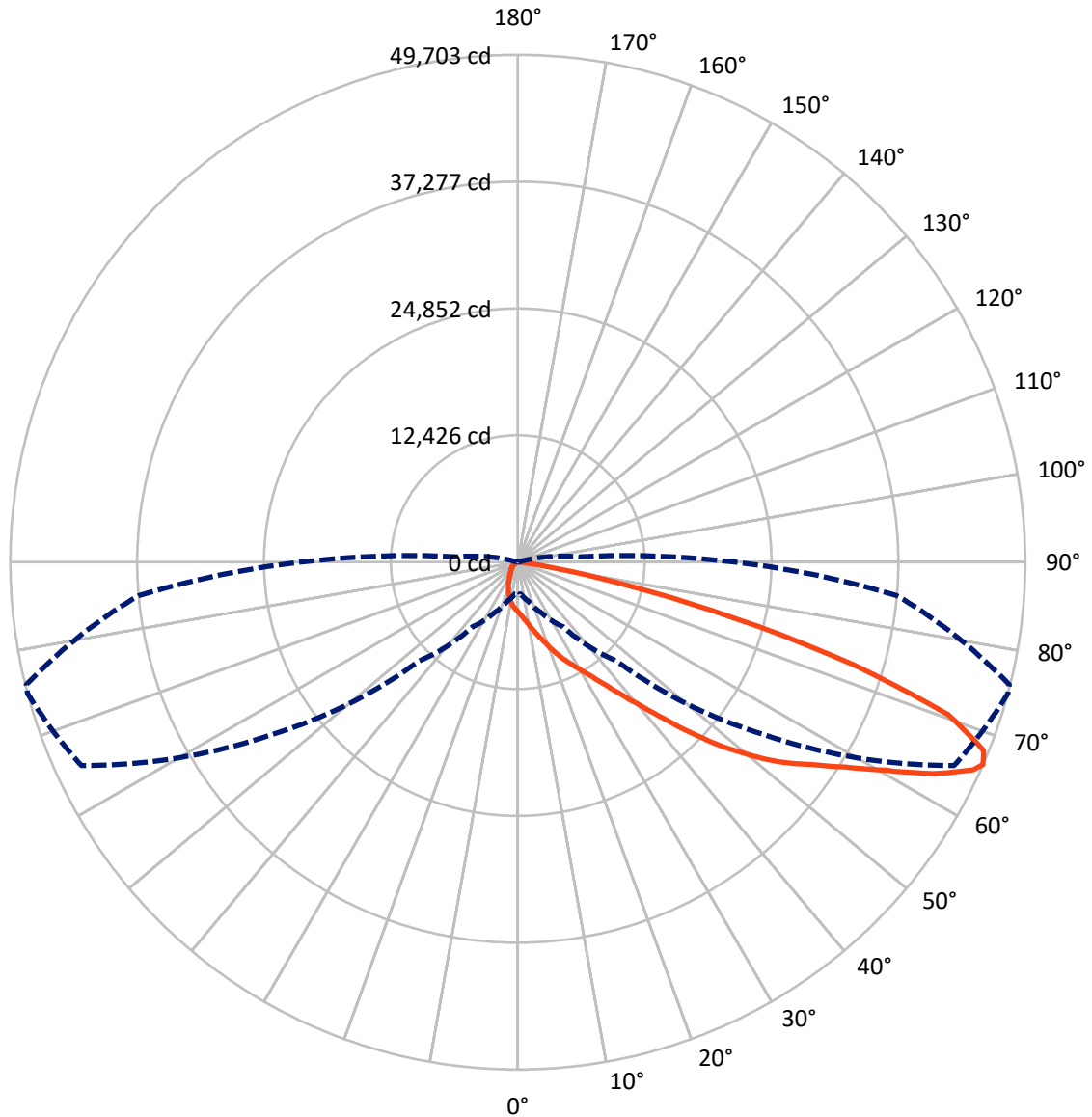
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2740.1	0.0	2740.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	41643.9	0.0	41643.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	44384.0	0.0	44384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	1.1
10°-20°	1377.8	3.1
20°-30°	2379.2	5.4
30°-40°	4291.6	9.7
40°-50°	7752.8	17.5
50°-60°	12086.7	27.2
60°-70°	11481.9	25.9
70°-80°	4303.1	9.7
80°-90°	242.8	0.5
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°	44384.0	100.0
0°-180°	44384.0	100.0

Coefficient of Utilization



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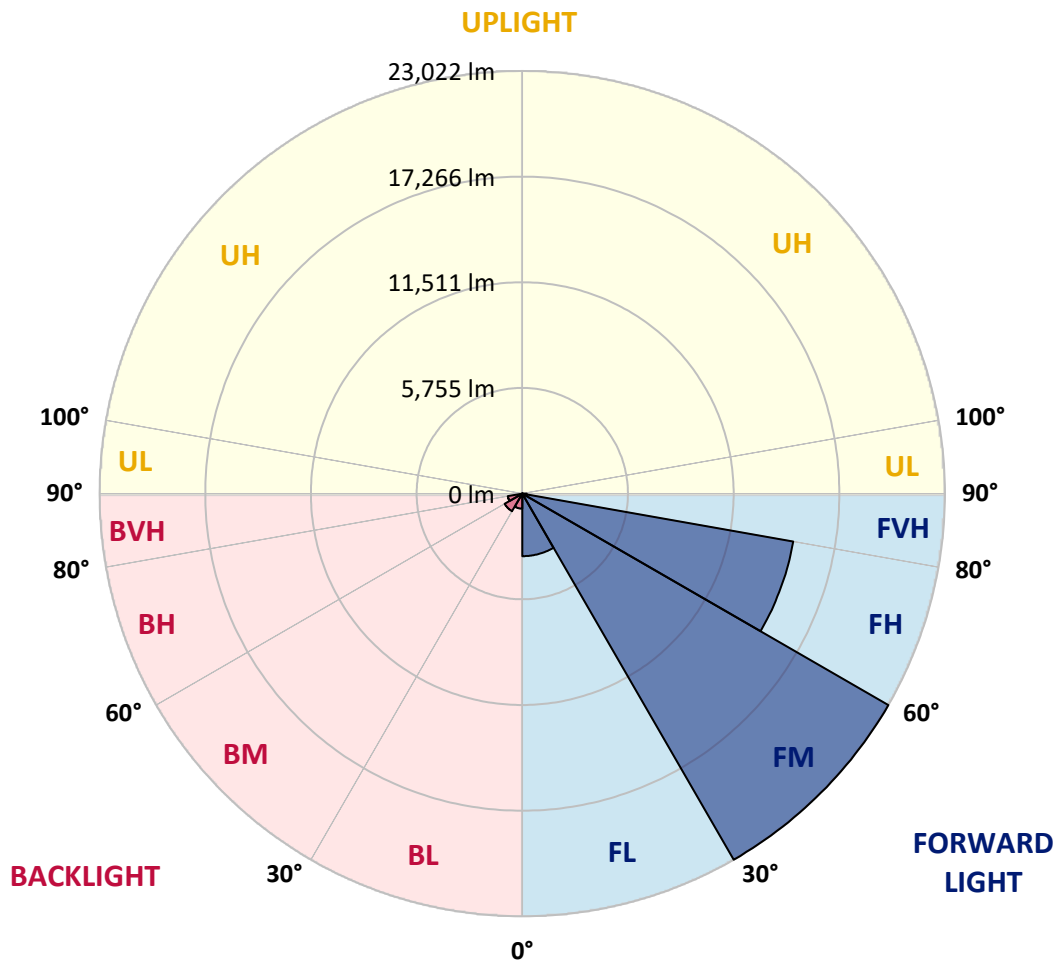
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.9	7.7			
FM (30°-60°)	23022.0	51.9			
FH (60°-80°)	14984.9	33.8			G5
FVH (80°-90°)	230.2	0.5			G3/500
BL (0°-30°)	818.3	1.8	B2/1000		
BM (30°-60°)	1109.1	2.5	B2/2500		
BH (60°-80°)	800.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	12.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8
2.5°	5799.0	5726.8	5749.8	5717.0	5641.5	5529.9	5431.4	5290.3	5149.2	5126.2	4968.7
5°	6563.7	6544.0	6517.7	6422.5	6370.0	6199.4	5995.9	5753.1	5461.0	5408.5	5122.9
7.5°	7085.5	7075.6	7088.8	7039.5	6993.6	6839.3	6622.7	6291.3	5838.4	5808.8	5333.0
10°	7256.1	7282.4	7331.6	7410.4	7482.6	7433.3	7269.3	6855.7	6327.4	6242.0	5572.6
12.5°	7157.7	7187.2	7305.4	7515.4	7748.4	7883.0	7817.3	7515.4	6845.9	6777.0	5841.7
15°	6905.0	6941.1	7108.4	7433.3	7850.1	8230.8	8394.9	8178.3	7449.8	7338.2	6166.6
17.5°	6530.8	6583.4	6822.9	7252.8	7823.9	8480.3	8943.0	8870.8	8093.0	7988.0	6521.0
20°	6248.6	6288.0	6491.5	6983.7	7712.3	8618.1	9464.8	9668.3	8887.2	8706.7	6937.8
22.5°	6435.7	6448.8	6517.7	6813.1	7512.1	8654.2	9924.3	10498.6	9730.6	9569.8	7371.0
25°	7351.3	7220.0	7151.1	7085.5	7469.4	8621.4	10341.1	11365.0	10570.8	10400.1	7800.9
27.5°	8795.3	8736.2	8388.4	7922.3	7833.7	8664.0	10616.7	12185.4	11361.7	11177.9	8221.0
30°	10367.3	10265.6	10052.3	9369.6	8683.7	8966.0	10816.9	12982.9	12297.0	12054.2	8605.0
32.5°	11811.3	11876.9	11558.6	10856.3	10062.1	9609.2	11076.2	13852.6	13370.2	13068.3	9051.3
35°	13494.9	13626.2	13137.2	12464.4	11535.6	10771.0	11581.6	14833.9	14732.1	14351.5	9740.5
37.5°	15204.7	15283.5	14984.8	14039.7	13202.8	12247.8	12533.3	16044.9	16409.2	16084.3	10564.2
40°	16642.2	16750.5	16530.6	15690.4	14797.8	13957.6	13915.0	17364.2	18404.5	18069.8	11791.6
42.5°	17741.6	17823.6	17830.2	17236.2	16432.1	16051.4	15677.3	19047.8	20905.3	20518.0	13215.9
45°	19129.8	19247.9	19179.0	18775.4	18174.8	18105.9	17912.2	21082.5	23898.3	23409.3	15063.6
47.5°	21276.1	21354.9	21184.2	20708.4	20097.9	20206.2	20091.4	23363.4	26950.4	26530.3	16976.9
50°	22766.1	22897.3	23140.2	23330.5	22887.5	22487.1	22145.8	25493.3	29848.3	29470.8	18932.9
52.5°	22749.7	22966.3	23734.2	24692.5	25660.6	25539.2	24557.9	27846.3	32614.8	32148.8	20770.7
55°	21217.0	21637.1	22766.1	24466.1	27147.3	28483.0	28036.7	30570.3	35004.0	34689.0	22900.6
57.5°	18053.4	18309.3	19878.1	22254.1	26317.0	29868.0	32066.8	34262.3	37869.1	37721.4	26208.7
60°	12142.8	12257.6	14276.0	17213.2	22405.1	28486.3	35020.4	38728.9	41397.0	41324.8	30071.4
62.5°	6957.5	7006.7	8470.4	10948.2	15943.1	24141.2	35269.8	44239.1	45627.3	45666.7	34541.3
65°	3744.6	3770.8	4952.3	6425.8	9701.1	17206.6	31715.6	47258.4	49047.0	49122.5	37311.1
66°	3232.6	3107.9	3941.5	5477.4	7718.9	13695.1	29467.6	47150.1	49703.3	49621.3	37212.7
67.5°	2458.1	2569.7	3147.3	4210.6	5720.2	9737.2	24328.2	45053.0	49204.5	48948.5	35699.8
70°	1759.1	1805.0	2241.5	3002.9	3895.5	5342.8	15546.0	37419.4	44721.5	44376.9	31101.9
72.5°	1135.5	1184.7	1588.4	2172.6	2815.8	2917.5	8703.4	27035.7	34478.9	34429.7	23422.4
75°	810.6	856.6	1050.2	1555.6	2116.8	1805.0	4190.9	18220.7	21919.4	21771.7	14489.3
77.5°	587.4	610.4	702.3	1017.4	1512.9	1293.0	1942.8	9730.6	10912.1	11427.3	6402.9
80°	338.0	357.7	489.0	620.3	1023.9	882.8	928.8	3905.4	4026.8	3833.2	2001.9
82.5°	167.4	190.3	292.1	423.4	640.0	594.0	426.6	1174.9	1240.5	1207.7	505.4
85°	39.4	49.2	164.1	279.0	311.8	265.8	206.8	344.6	426.6	416.8	193.6
87.5°	3.3	6.6	59.1	49.2	52.5	88.6	72.2	88.6	137.8	128.0	68.9
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°	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8	4853.8
2.5°	4896.5	4834.1	4653.6	4476.4	4328.7	4174.5	4033.4	3951.3	3918.5	3882.4	3898.8
5°	4965.4	4814.4	4450.2	4135.1	3826.6	3564.1	3354.0	3219.5	3153.8	3144.0	3127.6
7.5°	5057.3	4798.0	4233.6	3741.3	3337.6	3045.5	2806.0	2612.3	2553.3	2500.8	2458.1
10°	5168.9	4768.5	3964.5	3327.8	2897.9	2530.3	2215.2	1985.5	1867.4	1834.5	1857.5
12.5°	5287.0	4712.7	3682.2	2947.1	2451.5	1982.2	1690.1	1575.3	1542.5	1529.3	1532.6
15°	5405.2	4643.8	3386.9	2579.5	1952.7	1581.8	1447.3	1417.8	1404.6	1398.1	1391.5
17.5°	5513.5	4532.2	3055.4	2221.8	1581.8	1352.1	1302.9	1276.6	1250.4	1240.5	1224.1
20°	5641.5	4404.2	2756.7	1821.4	1339.0	1224.1	1165.1	1115.8	1076.4	1050.2	1046.9
22.5°	5762.9	4240.1	2445.0	1509.6	1220.8	1099.4	1004.2	951.7	905.8	873.0	882.8
25°	5828.5	4039.9	2166.0	1316.0	1112.5	974.7	869.7	804.0	754.8	738.4	735.1
27.5°	5828.5	3793.8	1893.6	1204.4	1014.1	863.1	754.8	692.5	659.6	636.7	640.0
30°	5782.6	3521.4	1640.9	1119.1	928.8	764.7	662.9	607.1	580.9	564.5	561.2
32.5°	5746.5	3262.1	1424.3	1037.1	840.1	679.3	590.7	548.1	521.8	505.4	505.4
35°	5802.3	3039.0	1256.9	955.0	758.1	613.7	534.9	495.6	469.3	456.2	452.9
37.5°	5950.0	2835.5	1129.0	866.4	682.6	557.9	495.6	449.6	423.4	406.9	400.4
40°	6314.2	2720.6	1033.8	784.4	610.4	512.0	449.6	406.9	374.1	357.7	354.4
42.5°	6898.4	2723.9	941.9	708.9	554.6	472.6	410.2	361.0	324.9	308.5	305.2
45°	7777.9	2848.6	869.7	636.7	505.4	429.9	367.6	315.1	282.2	265.8	265.8
47.5°	8831.4	3091.5	807.3	574.3	459.5	390.5	324.9	272.4	239.6	226.4	226.4
50°	9973.5	3406.5	745.0	508.7	420.1	347.9	279.0	236.3	210.0	200.2	200.2
52.5°	11138.5	3787.2	682.6	456.2	377.4	301.9	239.6	210.0	187.1	180.5	177.2
55°	12667.9	4272.9	617.0	400.4	331.5	259.3	213.3	183.8	157.5	147.7	144.4
57.5°	15020.9	5004.8	544.8	351.2	272.4	216.6	183.8	154.2	124.7	108.3	105.0
60°	17859.7	5897.5	469.3	308.5	219.9	177.2	147.7	118.1	91.9	72.2	68.9
62.5°	20518.0	6465.2	397.1	259.3	173.9	134.6	105.0	88.6	65.6	45.9	42.7
65°	21692.9	6274.9	328.2	210.0	137.8	95.2	68.9	62.4	39.4	19.7	16.4
66°	21302.4	5992.6	301.9	190.3	124.7	82.0	59.1	52.5	29.5	9.8	9.8
67.5°	20150.4	5326.4	262.5	164.1	108.3	65.6	45.9	39.4	16.4	3.3	0.0
70°	17265.7	4309.0	206.8	121.4	78.8	45.9	26.3	19.7	9.8	0.0	0.0
72.5°	13261.9	3209.6	164.1	91.9	55.8	26.3	13.1	6.6	9.8	0.0	0.0
75°	8125.8	1834.5	128.0	68.9	36.1	16.4	9.8	0.0	9.8	3.3	0.0
77.5°	3606.7	823.7	85.3	45.9	26.3	13.1	6.6	0.0	6.6	3.3	0.0
80°	912.3	269.1	49.2	32.8	19.7	9.8	3.3	0.0	6.6	6.6	3.3
82.5°	249.4	98.5	36.1	26.3	16.4	9.8	3.3	0.0	6.6	6.6	6.6
85°	98.5	45.9	32.8	26.3	19.7	9.8	3.3	0.0	6.6	6.6	6.6
87.5°	45.9	32.8	32.8	29.5	23.0	9.8	3.3	0.0	6.6	3.3	6.6
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)