

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: P459350

Luminaire Tested: **GALN-SA8A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24771 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

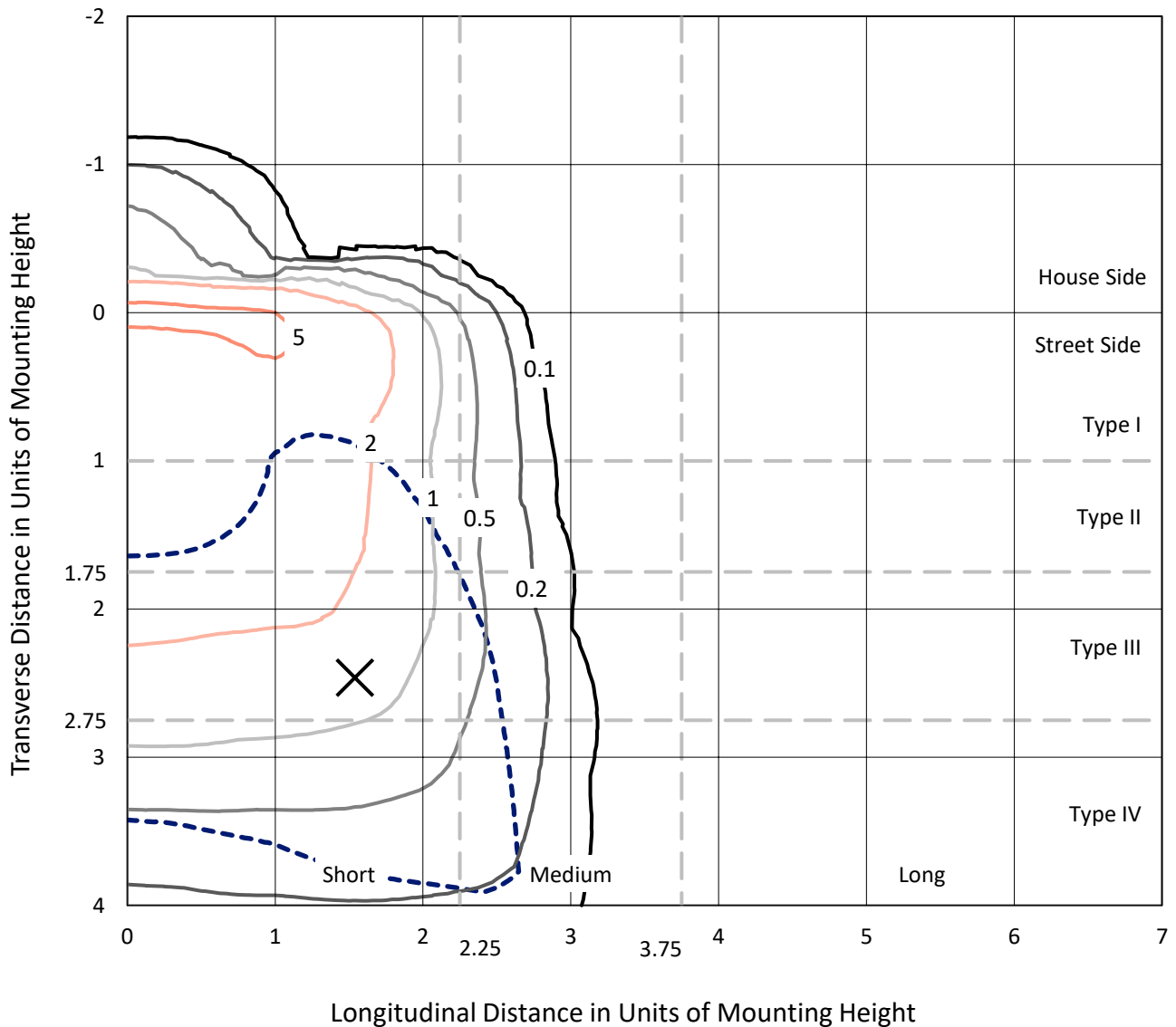
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

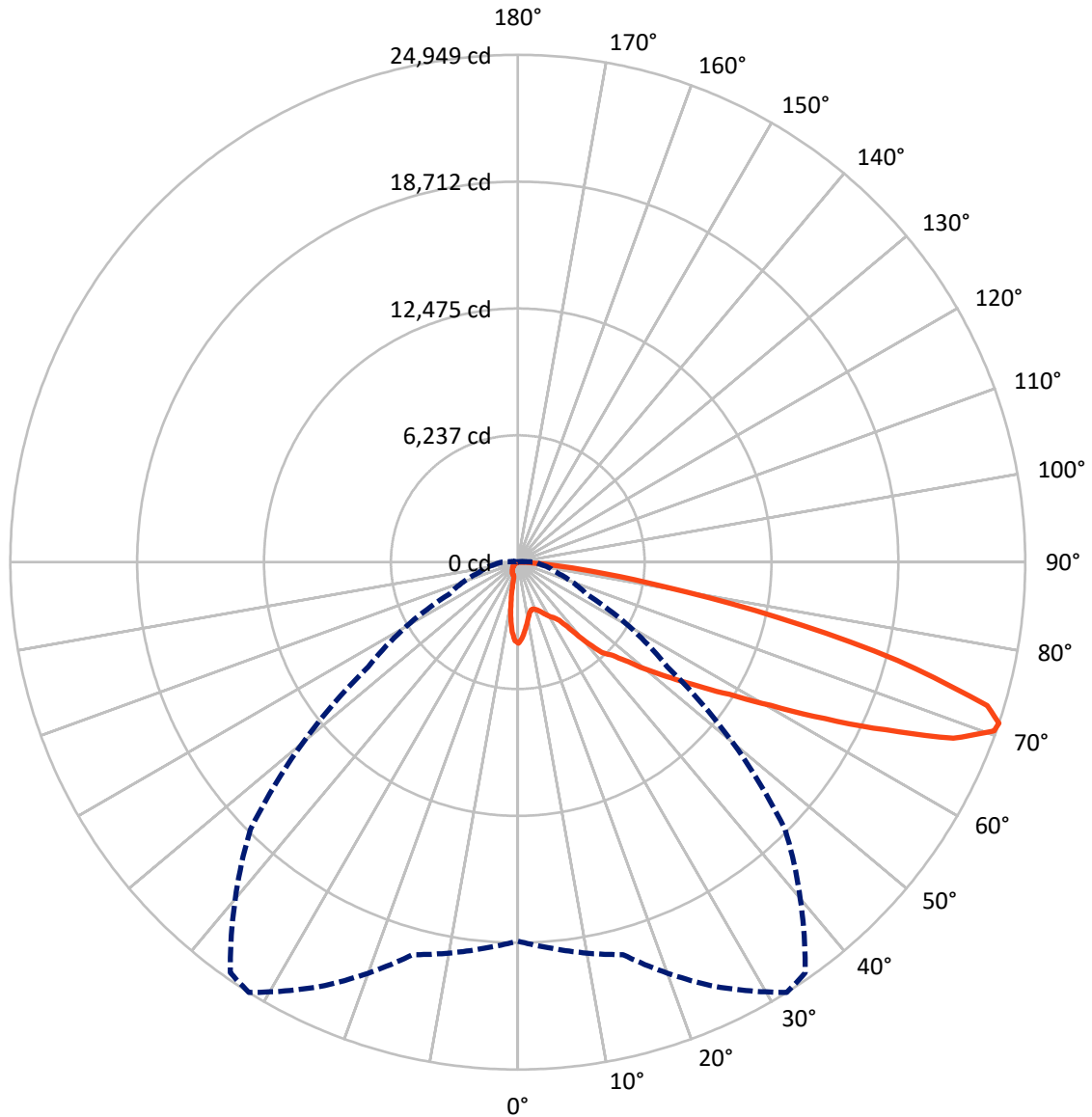
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2074.8	0.0	2074.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22696.2	0.0	22696.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	24771.0	0.0	24771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	1.3
10°-20°	703.0	2.8
20°-30°	1093.7	4.4
30°-40°	1822.0	7.4
40°-50°	3389.3	13.7
50°-60°	5441.6	22.0
60°-70°	7319.2	29.5
70°-80°	4342.6	17.5
80°-90°	335.7	1.4
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°	24771.0	100.0
0°-180°	24771.0	100.0

Coefficient of Utilization



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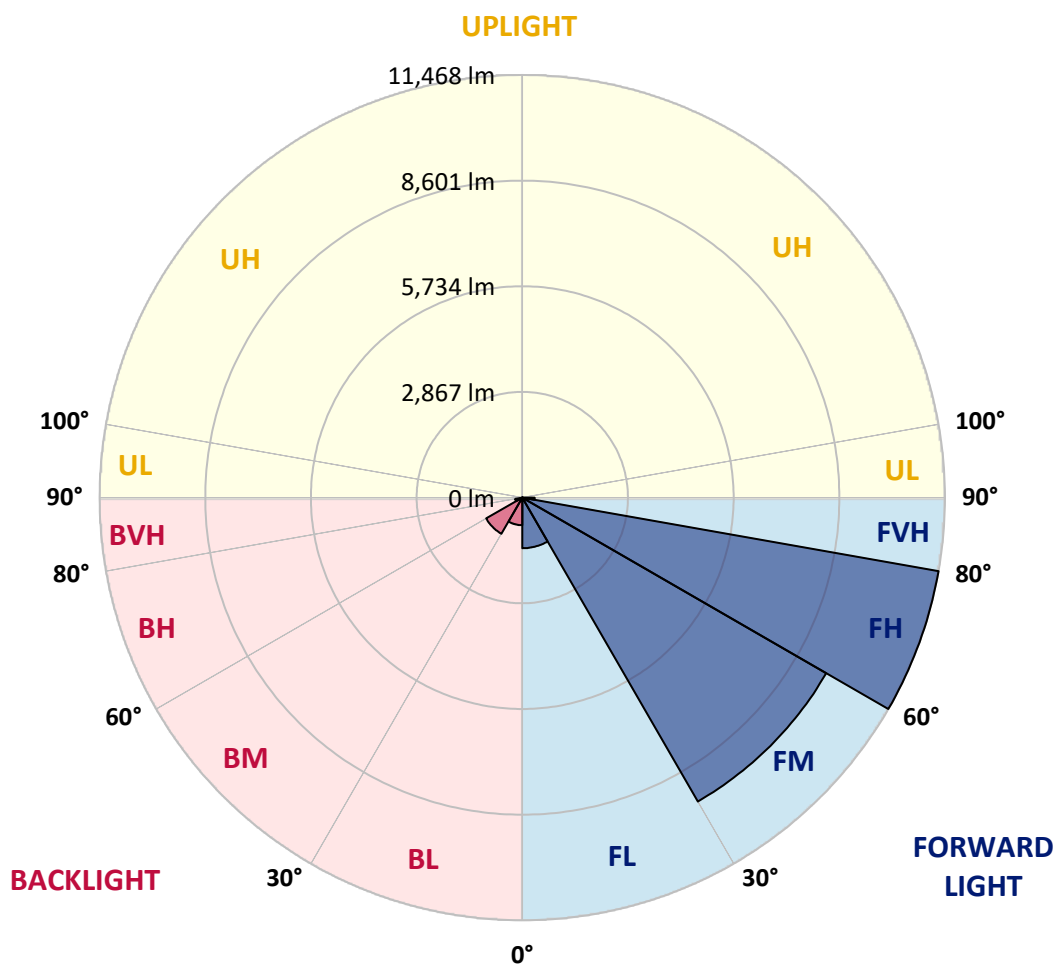
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.0	5.5			
FM	(30°-60°)	9521.1	38.4			
FH	(60°-80°)	11467.8	46.3			G4/12000
FVH	(80°-90°)	334.4	1.3			G3/500
BL	(0°-30°)	747.6	3.0	B2/1000		
BM	(30°-60°)	1131.9	4.6	B2/2500		
BH	(60°-80°)	194.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	3694.5	3732.6	3726.9	3740.2	3772.5	3785.8	3821.9	3861.9	3917.0	3955.0	3979.8
5°	3308.5	3337.1	3340.9	3407.4	3439.7	3475.9	3582.4	3698.3	3827.6	3930.3	3998.8
7.5°	2895.9	2911.1	2941.6	3029.0	3110.8	3146.9	3308.5	3510.1	3713.6	3905.6	4029.2
10°	2555.6	2572.7	2627.8	2721.0	2797.1	2844.6	3069.0	3321.9	3607.1	3892.3	4072.9
12.5°	2361.6	2371.1	2392.0	2475.7	2572.7	2624.0	2865.5	3154.5	3521.5	3898.0	4147.1
15°	2348.3	2344.5	2319.8	2354.0	2441.5	2494.7	2730.5	3040.4	3445.4	3917.0	4234.6
17.5°	2418.7	2409.2	2350.2	2350.2	2422.5	2466.2	2673.5	2979.6	3407.4	3960.7	4358.2
20°	2527.0	2511.8	2414.9	2407.3	2477.6	2523.2	2707.7	2983.4	3415.0	4042.5	4523.6
22.5°	2663.9	2646.8	2500.4	2504.2	2580.3	2625.9	2806.6	3051.8	3462.6	4143.3	4700.4
25°	2842.7	2823.7	2650.6	2643.0	2722.9	2762.8	2953.0	3173.5	3529.1	4268.8	4932.4
27.5°	3080.4	3040.4	2833.2	2821.8	2907.3	2958.7	3129.8	3337.1	3647.0	4441.8	5244.2
30°	3276.2	3232.5	3034.7	3004.3	3095.6	3135.5	3312.3	3557.6	3879.0	4744.1	5675.9
32.5°	3532.9	3468.3	3236.3	3156.4	3253.4	3304.7	3576.7	3968.4	4223.1	5063.6	6189.3
35°	4111.0	4071.0	3787.7	3508.2	3502.5	3567.1	3966.5	4382.9	4576.8	5561.8	6889.0
37.5°	4938.1	4909.6	4609.1	4234.6	4126.2	4095.8	4439.9	4839.2	5141.6	6246.3	7702.8
40°	5898.3	5831.8	5556.1	5238.5	5097.8	5008.5	4998.9	5518.0	5879.3	7176.1	8550.9
42.5°	6586.7	6465.0	6130.3	6107.5	6077.1	5983.9	5713.9	6510.6	6832.0	8176.3	9457.9
45°	7309.2	7124.8	6626.6	6541.0	6529.6	6523.9	6793.9	7685.7	7870.2	9260.1	10389.6
47.5°	7870.2	7723.7	7314.9	7276.9	7324.4	7453.7	8221.9	8933.1	8895.0	10226.1	11171.1
50°	8617.4	8507.1	8052.7	8124.9	8370.2	8581.3	9832.5	10292.6	9737.4	10986.6	11739.6
52.5°	9499.7	9296.2	8874.1	9070.0	9446.5	9798.2	11541.9	11482.9	10328.7	11559.0	12163.7
55°	10264.1	10119.6	9975.1	10178.5	10741.4	11180.6	13085.9	12374.7	10758.5	12019.1	12350.0
57.5°	11557.1	11522.9	11374.5	11581.8	12264.4	12720.8	14468.2	13066.8	11034.2	12258.7	12131.3
60°	13470.0	13414.8	13139.1	13403.4	14293.3	15010.1	15742.2	13688.6	11096.9	12165.6	11501.9
62.5°	15770.7	15582.5	15346.7	15736.5	16957.2	17272.9	16942.0	14057.5	10863.1	11424.0	9984.6
65°	17919.4	17725.4	17731.1	18552.6	19881.7	20096.6	18341.5	14002.4	10178.5	9566.3	7364.4
67.5°	19564.1	19531.8	19763.8	21366.7	23104.7	22956.4	19592.7	13177.1	8149.7	6200.7	3913.2
70°	19647.8	19710.6	20376.1	23081.9	24846.4	24610.6	19486.2	10710.9	5080.7	2852.2	1542.1
71°	18636.2	19058.4	19978.7	23028.6	24949.1	24643.0	18588.7	8971.1	3726.9	1988.9	1112.4
72.5°	15881.0	16103.5	18092.4	21672.9	24137.2	23483.1	16312.6	6288.1	2386.3	1216.9	638.9
75°	8746.7	9294.3	12116.1	17002.9	19305.5	18731.3	10631.1	2987.2	1190.3	665.5	264.3
77.5°	4164.2	4057.7	5911.6	10112.0	13089.7	13059.2	5356.4	1327.2	694.0	450.6	133.1
80°	1190.3	1338.6	2262.7	4806.9	7267.4	7347.3	2057.4	640.8	481.1	351.8	68.5
82.5°	359.4	367.0	830.9	2125.8	3614.7	3407.4	772.0	327.1	346.1	279.5	39.9
85°	62.7	78.0	245.3	749.2	1378.6	1045.8	193.9	155.9	228.2	184.4	22.8
87.5°	3.8	5.7	81.8	85.6	121.7	70.4	34.2	22.8	49.4	49.4	13.3
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°	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6	3983.6
2.5°	3996.9	4008.3	4000.7	3983.6	3955.0	3920.8	3875.2	3837.2	3804.8	3787.7	3808.6
5°	4021.6	4036.8	3998.8	3913.2	3783.9	3643.2	3483.5	3359.9	3262.9	3232.5	3221.1
7.5°	4059.6	4069.1	3966.5	3776.3	3502.5	3169.7	2878.8	2633.5	2443.4	2386.3	2302.7
10°	4109.1	4103.4	3909.4	3555.7	3074.7	2574.6	2123.9	1789.3	1536.4	1445.1	1437.5
12.5°	4185.1	4154.7	3837.2	3255.3	2565.1	1911.0	1353.8	1059.1	899.4	846.2	834.7
15°	4280.2	4207.9	3723.1	2903.5	1964.2	1234.0	834.7	745.4	724.5	720.7	716.9
17.5°	4392.4	4278.3	3572.8	2471.9	1380.5	800.5	697.8	695.9	697.8	694.0	692.1
20°	4544.5	4352.4	3394.1	1960.4	912.7	675.0	665.5	665.5	667.4	665.5	665.5
22.5°	4706.1	4439.9	3173.5	1496.5	688.3	640.8	638.9	642.7	646.5	644.6	644.6
25°	4905.8	4554.0	2882.6	1024.9	616.1	612.3	614.2	621.8	629.4	631.3	629.4
27.5°	5194.8	4694.7	2570.8	705.4	564.7	568.5	587.6	606.6	618.0	619.9	619.9
30°	5519.9	4850.6	2163.9	572.3	522.9	522.9	545.7	581.8	606.6	610.4	612.3
32.5°	5938.3	5031.3	1713.2	515.3	483.0	479.2	500.1	543.8	589.5	602.8	602.8
35°	6455.5	5244.2	1274.0	479.2	454.4	444.9	456.4	492.5	551.4	589.5	593.3
37.5°	7062.0	5445.8	931.7	446.8	427.8	414.5	422.1	450.6	498.2	555.2	570.4
40°	7623.0	5624.5	695.9	420.2	401.2	391.7	397.4	410.7	450.6	503.9	513.4
42.5°	8235.2	5763.3	553.3	391.7	374.6	370.8	370.8	376.5	403.1	433.5	435.4
45°	8845.6	5812.8	464.0	357.5	346.1	349.9	348.0	344.2	355.6	351.8	351.8
47.5°	9281.0	5753.8	384.1	325.2	325.2	330.9	321.3	308.0	302.3	279.5	281.4
50°	9579.6	5539.0	315.6	287.1	302.3	309.9	290.9	270.0	249.1	224.4	218.7
52.5°	9703.2	5156.8	258.6	237.7	268.1	277.6	254.8	230.1	197.8	176.8	171.1
55°	9623.3	4685.2	214.9	193.9	226.3	237.7	214.9	186.3	150.2	127.4	123.6
57.5°	9271.5	4122.4	182.5	154.0	180.6	188.2	173.0	142.6	106.5	83.7	83.7
60°	8663.1	3540.5	148.3	121.7	135.0	146.4	131.2	102.7	72.3	51.3	47.5
62.5°	7429.0	2875.0	119.8	95.1	95.1	104.6	91.3	74.2	45.6	26.6	24.7
65°	5364.0	1971.8	95.1	70.4	68.5	68.5	57.0	49.4	26.6	11.4	7.6
67.5°	2914.9	1112.4	76.1	53.2	47.5	45.6	36.1	28.5	11.4	1.9	0.0
70°	1146.6	427.8	58.9	36.1	30.4	28.5	19.0	13.3	7.6	0.0	0.0
71°	777.7	294.7	51.3	30.4	24.7	20.9	15.2	11.4	5.7	0.0	0.0
72.5°	444.9	182.5	39.9	22.8	19.0	15.2	11.4	7.6	5.7	0.0	0.0
75°	193.9	93.2	24.7	17.1	13.3	9.5	7.6	5.7	1.9	0.0	0.0
77.5°	98.9	51.3	17.1	13.3	7.6	5.7	3.8	1.9	0.0	0.0	0.0
80°	55.1	26.6	11.4	7.6	5.7	3.8	1.9	1.9	0.0	0.0	0.0
82.5°	30.4	15.2	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.8	0.0	0.0	0.0	0.0	1.9	1.9	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)