

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: P459545

Luminaire Tested: **GALN-SA9D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459545
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-SA9D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 48838 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: B2 - U0 - G5

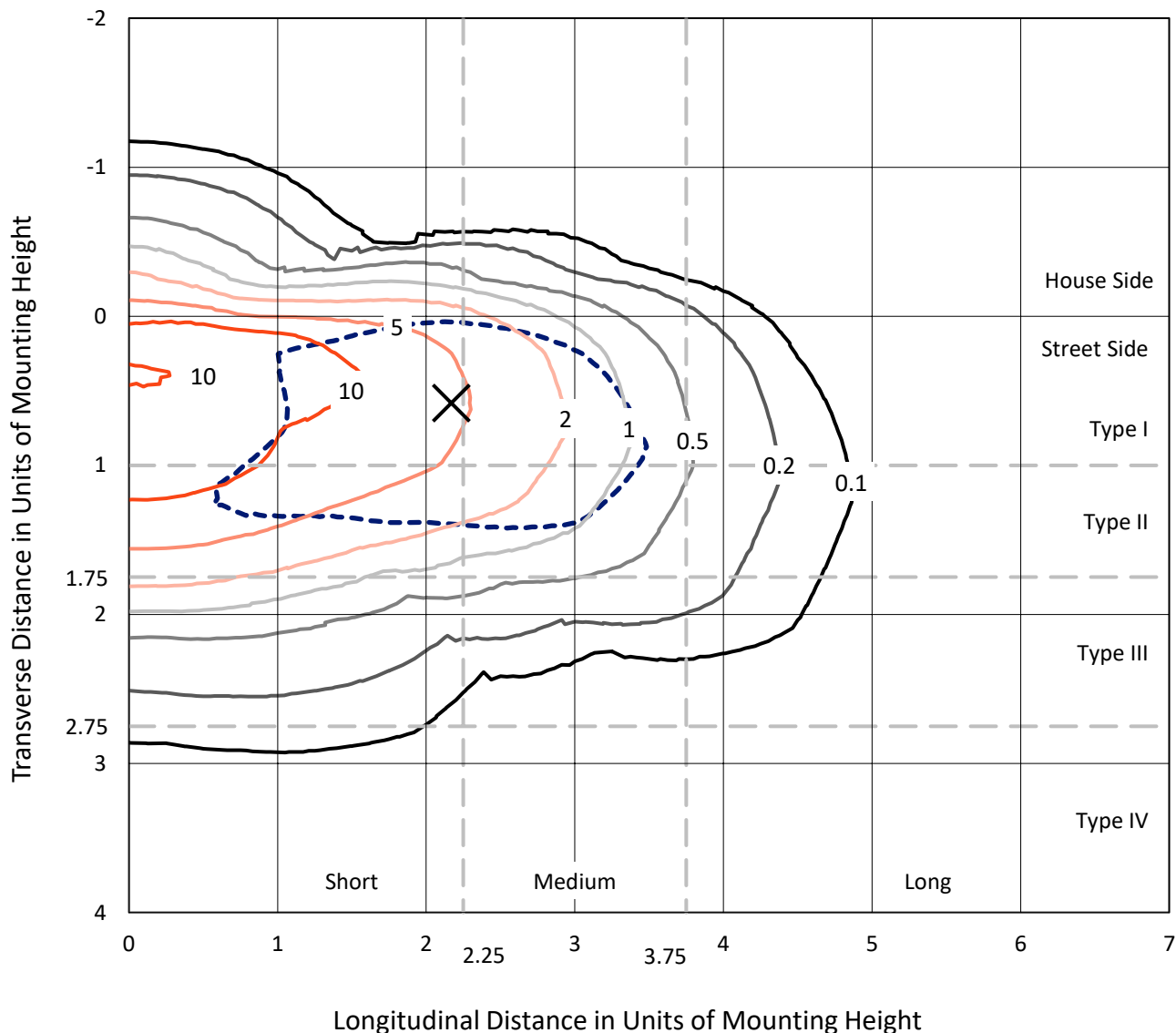
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

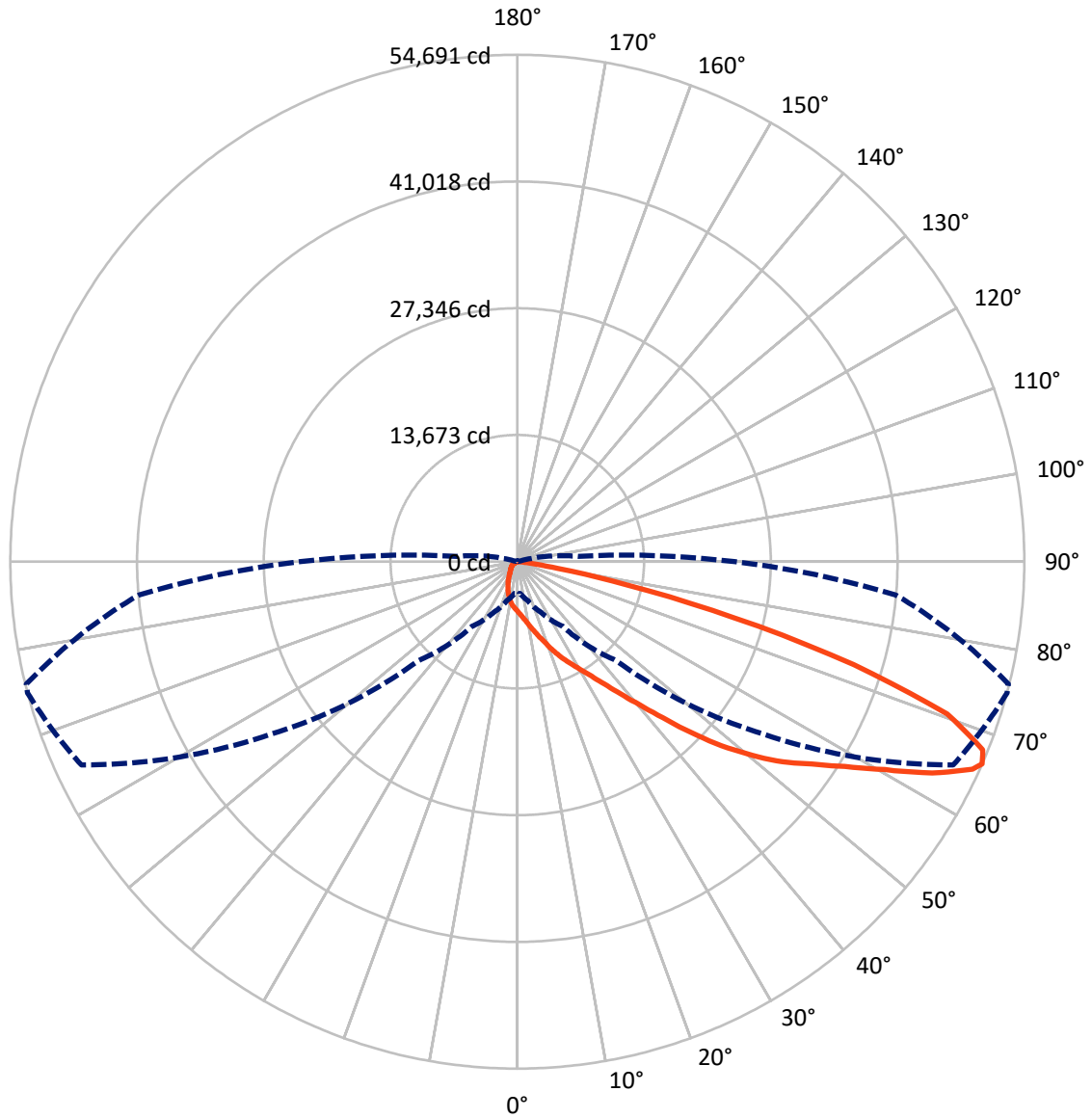
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	3015.0	0.0	3015.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	45823.0	0.0	45823.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	48838.0	0.0	48838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	1.1
10°-20°	1516.1	3.1
20°-30°	2617.9	5.4
30°-40°	4722.2	9.7
40°-50°	8530.8	17.5
50°-60°	13299.6	27.2
60°-70°	12634.1	25.9
70°-80°	4734.9	9.7
80°-90°	267.1	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°	48838.0	100.0
0°-180°	48838.0	100.0

Coefficient of Utilization



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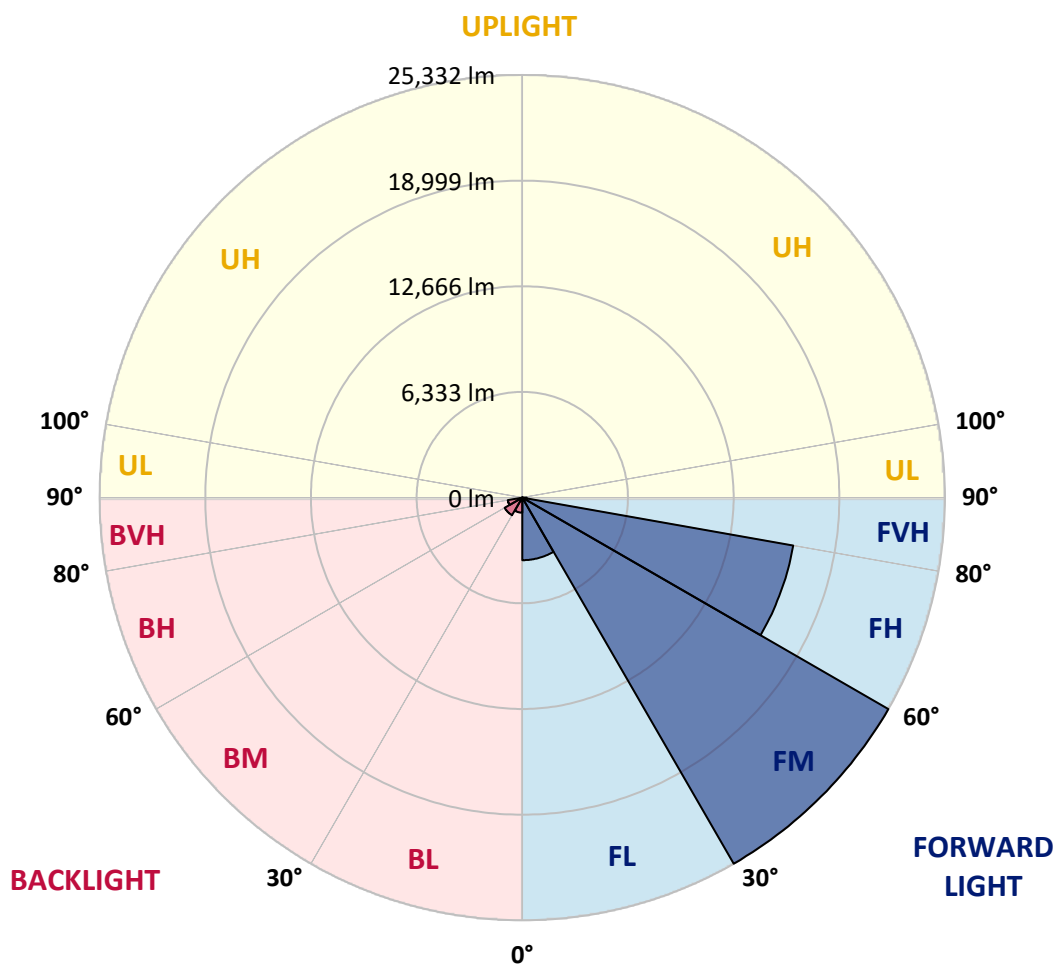
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3748.7	7.7			
FM	(30°-60°)	25332.2	51.9			
FH	(60°-80°)	16488.6	33.8			G5
FVH	(80°-90°)	253.4	0.5			G3/500
BL	(0°-30°)	900.4	1.8	B2/1000		
BM	(30°-60°)	1220.4	2.5	B2/2500		
BH	(60°-80°)	880.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	13.8	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°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	6380.9	6301.5	6326.8	6290.7	6207.6	6084.8	5976.5	5821.2	5665.9	5640.6	5467.3
5°	7222.3	7200.7	7171.8	7067.1	7009.3	6821.5	6597.6	6330.4	6009.0	5951.2	5637.0
7.5°	7796.5	7785.7	7800.1	7746.0	7695.4	7525.7	7287.3	6922.6	6424.3	6391.8	5868.1
10°	7984.3	8013.2	8067.4	8154.0	8233.5	8179.3	7998.7	7543.7	6962.3	6868.4	6131.8
12.5°	7876.0	7908.5	8038.5	8269.6	8526.0	8674.0	8601.8	8269.6	7532.9	7457.1	6427.9
15°	7597.9	7637.6	7821.8	8179.3	8637.9	9056.8	9237.4	8999.0	8197.4	8074.6	6785.4
17.5°	7186.2	7244.0	7507.6	7980.7	8609.0	9331.3	9840.4	9761.0	8905.1	8789.6	7175.4
20°	6875.7	6919.0	7142.9	7684.6	8486.2	9482.9	10414.6	10638.5	9779.0	9580.4	7634.0
22.5°	7081.5	7095.9	7171.8	7496.8	8266.0	9522.7	10920.2	11552.1	10707.1	10530.2	8110.7
25°	8089.0	7944.6	7868.7	7796.5	8219.0	9486.5	11378.8	12505.5	11631.6	11443.8	8583.7
27.5°	9677.9	9612.9	9230.1	8717.4	8619.9	9533.5	11682.1	13408.3	12501.9	12299.6	9046.0
30°	11407.7	11295.7	11061.0	10309.9	9555.2	9865.7	11902.4	14285.8	13531.0	13263.8	9468.5
32.5°	12996.6	13068.8	12718.5	11945.7	11071.8	10573.5	12187.7	15242.7	14711.9	14379.7	9959.6
35°	14849.1	14993.6	14455.5	13715.2	12693.3	11851.9	12743.8	16322.5	16210.5	15791.6	10717.9
37.5°	16730.5	16817.2	16488.6	15448.6	14527.7	13476.9	13791.1	17655.0	18055.8	17698.3	11624.4
40°	18312.2	18431.4	18189.5	17265.0	16282.8	15358.3	15311.4	19106.7	20251.4	19883.1	12974.9
42.5°	19522.0	19612.3	19619.5	18965.9	18081.1	17662.2	17250.6	20959.2	23003.1	22577.0	14542.2
45°	21049.5	21179.5	21103.7	20659.5	19998.7	19922.8	19709.8	23198.1	26296.5	25758.5	16575.3
47.5°	23411.2	23497.9	23310.1	22786.5	22114.8	22234.0	22107.6	25707.9	29654.9	29192.7	18680.6
50°	25050.7	25195.1	25462.3	25671.8	25184.3	24743.7	24368.2	28051.6	32843.6	32428.3	20832.8
52.5°	25032.6	25271.0	26116.0	27170.4	28235.7	28102.1	27022.4	30640.8	35887.8	35375.0	22855.1
55°	23346.2	23808.4	25050.7	26921.3	29871.6	31341.3	30850.2	33638.0	38516.7	38170.0	25198.7
57.5°	19865.0	20146.7	21872.8	24487.3	28958.0	32865.2	35284.7	37700.6	41669.3	41506.8	28838.8
60°	13361.3	13487.7	15708.6	18940.6	24653.4	31344.9	38534.8	42615.4	45551.3	45471.8	33089.1
62.5°	7655.7	7709.8	9320.4	12046.9	17543.1	26563.8	38809.2	48678.6	50206.1	50249.4	38007.5
65°	4120.3	4149.2	5449.3	7070.7	10674.6	18933.4	34898.3	52000.8	53968.9	54052.0	41055.4
66°	3557.0	3419.8	4337.0	6027.0	8493.5	15069.4	32424.7	51881.7	54691.1	54600.9	40947.0
67.5°	2704.8	2827.5	3463.1	4633.1	6294.3	10714.3	26769.6	49574.1	54142.2	53860.6	39282.3
70°	1935.6	1986.1	2466.4	3304.2	4286.5	5879.0	17106.1	41174.5	49209.4	48830.2	34223.0
72.5°	1249.5	1303.6	1747.8	2390.6	3098.4	3210.3	9576.8	29748.8	37938.9	37884.8	25772.9
75°	892.0	942.5	1155.6	1711.7	2329.2	1986.1	4611.5	20049.2	24119.0	23956.5	15943.3
77.5°	646.4	671.7	772.8	1119.5	1664.7	1422.8	2137.8	10707.1	12007.1	12574.1	7045.4
80°	372.0	393.6	538.1	682.5	1126.7	971.4	1022.0	4297.3	4430.9	4217.8	2202.8
82.5°	184.2	209.4	321.4	465.8	704.2	653.6	469.5	1292.8	1365.0	1328.9	556.1
85°	43.3	54.2	180.6	306.9	343.1	292.5	227.5	379.2	469.5	458.6	213.1
87.5°	3.6	7.2	65.0	54.2	57.8	97.5	79.4	97.5	151.7	140.8	75.8
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°	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9	5340.9
2.5°	5387.9	5319.3	5120.6	4925.6	4763.1	4593.4	4438.1	4347.8	4311.7	4272.0	4290.1
5°	5463.7	5297.6	4896.7	4550.1	4210.6	3921.7	3690.6	3542.6	3470.3	3459.5	3441.4
7.5°	5564.8	5279.5	4658.4	4116.7	3672.6	3351.2	3087.5	2874.5	2809.5	2751.7	2704.8
10°	5687.6	5247.0	4362.3	3661.7	3188.7	2784.2	2437.5	2184.8	2054.8	2018.6	2043.9
12.5°	5817.6	5185.6	4051.7	3242.8	2697.5	2181.1	1859.8	1733.4	1697.2	1682.8	1686.4
15°	5947.6	5109.8	3726.7	2838.4	2148.6	1740.6	1592.5	1560.0	1545.6	1538.4	1531.1
17.5°	6066.8	4987.0	3362.0	2444.8	1740.6	1487.8	1433.6	1404.7	1375.9	1365.0	1347.0
20°	6207.6	4846.2	3033.4	2004.2	1473.4	1347.0	1282.0	1227.8	1184.5	1155.6	1152.0
22.5°	6341.2	4665.6	2690.3	1661.1	1343.4	1209.7	1105.0	1047.2	996.7	960.6	971.4
25°	6413.4	4445.3	2383.4	1448.1	1224.2	1072.5	957.0	884.7	830.6	812.5	808.9
27.5°	6413.4	4174.5	2083.6	1325.3	1115.9	949.7	830.6	762.0	725.8	700.6	704.2
30°	6362.9	3874.8	1805.6	1231.4	1022.0	841.4	729.5	668.1	639.2	621.1	617.5
32.5°	6323.2	3589.5	1567.2	1141.1	924.5	747.5	650.0	603.1	574.2	556.1	556.1
35°	6384.5	3343.9	1383.1	1050.9	834.2	675.3	588.6	545.3	516.4	502.0	498.3
37.5°	6547.0	3120.0	1242.2	953.3	751.1	613.9	545.3	494.7	465.8	447.8	440.6
40°	6947.9	2993.7	1137.5	863.1	671.7	563.3	494.7	447.8	411.7	393.6	390.0
42.5°	7590.7	2997.3	1036.4	780.0	610.3	520.0	451.4	397.2	357.5	339.4	335.8
45°	8558.5	3134.5	957.0	700.6	556.1	473.1	404.5	346.7	310.6	292.5	292.5
47.5°	9717.7	3401.7	888.3	632.0	505.6	429.7	357.5	299.7	263.6	249.2	249.2
50°	10974.3	3748.4	819.7	559.7	462.2	382.8	306.9	260.0	231.1	220.3	220.3
52.5°	12256.3	4167.3	751.1	502.0	415.3	332.2	263.6	231.1	205.8	198.6	195.0
55°	13939.1	4701.7	678.9	440.6	364.7	285.3	234.7	202.2	173.3	162.5	158.9
57.5°	16528.3	5507.0	599.5	386.4	299.7	238.3	202.2	169.7	137.2	119.2	115.6
60°	19652.0	6489.3	516.4	339.4	241.9	195.0	162.5	130.0	101.1	79.4	75.8
62.5°	22577.0	7114.0	437.0	285.3	191.4	148.1	115.6	97.5	72.2	50.6	46.9
65°	23869.8	6904.6	361.1	231.1	151.7	104.7	75.8	68.6	43.3	21.7	18.1
66°	23440.1	6594.0	332.2	209.4	137.2	90.3	65.0	57.8	32.5	10.8	10.8
67.5°	22172.6	5860.9	288.9	180.6	119.2	72.2	50.6	43.3	18.1	3.6	0.0
70°	18998.4	4741.5	227.5	133.6	86.7	50.6	28.9	21.7	10.8	0.0	0.0
72.5°	14592.7	3531.7	180.6	101.1	61.4	28.9	14.4	7.2	10.8	0.0	0.0
75°	8941.3	2018.6	140.8	75.8	39.7	18.1	10.8	0.0	10.8	3.6	0.0
77.5°	3968.7	906.4	93.9	50.6	28.9	14.4	7.2	0.0	7.2	3.6	0.0
80°	1003.9	296.1	54.2	36.1	21.7	10.8	3.6	0.0	7.2	7.2	3.6
82.5°	274.4	108.3	39.7	28.9	18.1	10.8	3.6	0.0	7.2	7.2	7.2
85°	108.3	50.6	36.1	28.9	21.7	10.8	3.6	0.0	7.2	7.2	7.2
87.5°	50.6	36.1	36.1	32.5	25.3	10.8	3.6	0.0	7.2	3.6	7.2
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)