

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: P457709

Luminaire Tested: **GALN-SA9A-750-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34294 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

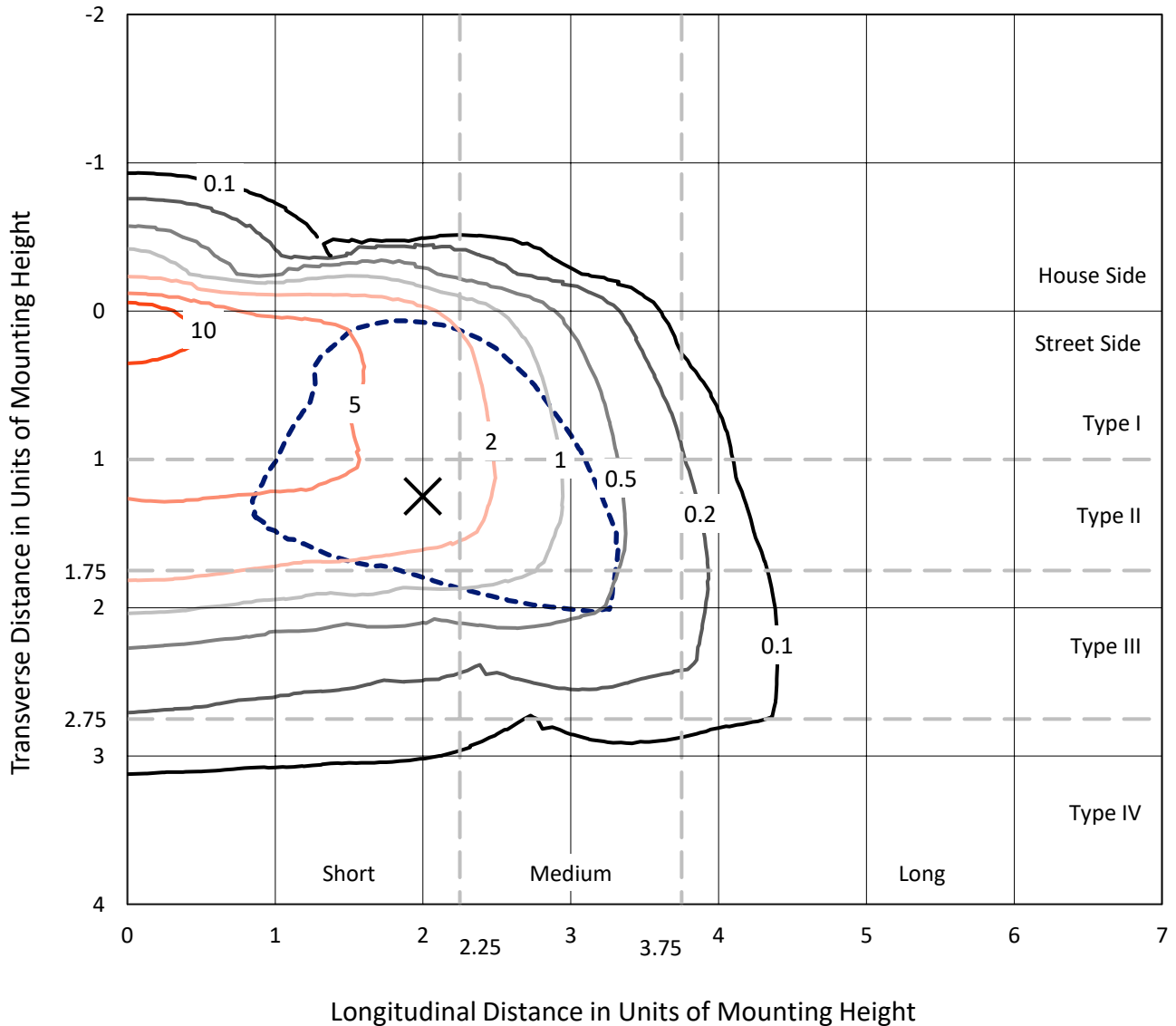
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

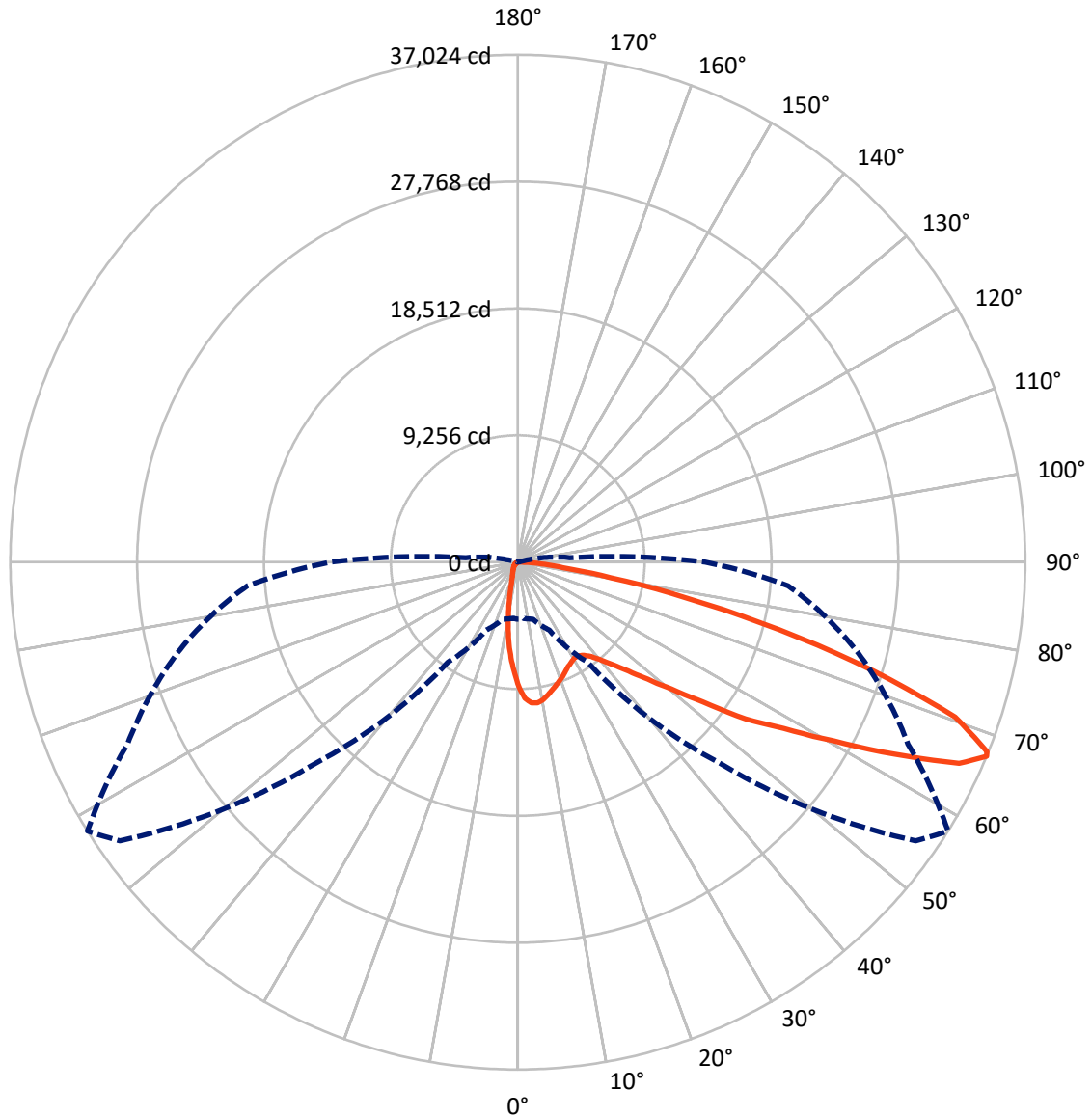
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.9	0.0	2474.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31819.1	0.0	31819.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	34294.0	0.0	34294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.7	2.2
10°-20°	1593.3	4.6
20°-30°	2159.0	6.3
30°-40°	2994.4	8.7
40°-50°	4775.8	13.9
50°-60°	8255.3	24.1
60°-70°	9430.1	27.5
70°-80°	3931.5	11.5
80°-90°	416.8	1.2
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°	34294.0	100.0
0°-180°	34294.0	100.0

Coefficient of Utilization



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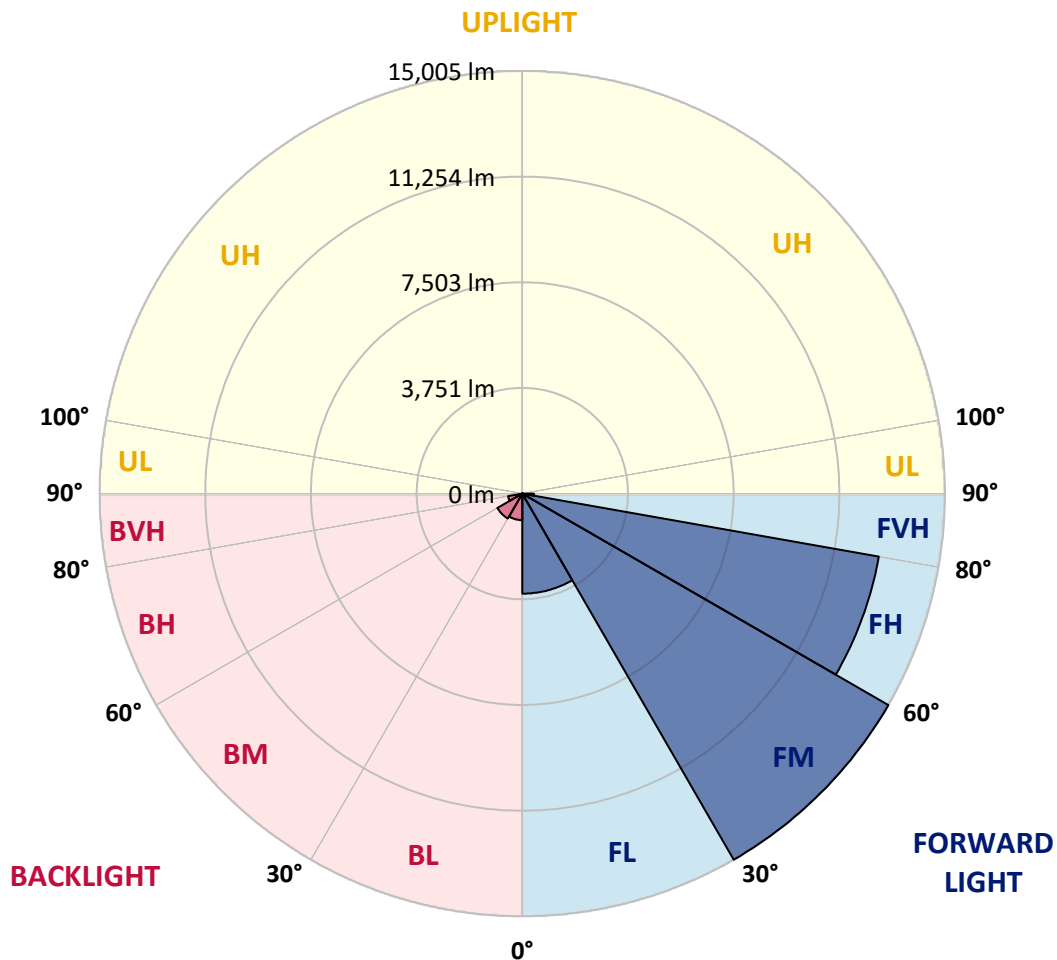
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3550.3	10.4			
FM	(30°-60°)	15005.1	43.8			
FH	(60°-80°)	12850.0	37.5			G5
FVH	(80°-90°)	413.8	1.2			G3/500
BL	(0°-30°)	939.8	2.7	B2/1000		
BM	(30°-60°)	1020.4	3.0	B2/2500		
BH	(60°-80°)	511.6	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0
2.5°	10550.8	10566.9	10507.3	10459.1	10335.4	10202.5	10026.0	9932.1	9771.6	9494.4	9187.3
5°	10798.3	10818.9	10809.8	10798.3	10750.2	10621.9	10397.3	10314.8	10078.7	9627.3	9072.7
7.5°	10248.3	10323.9	10333.1	10422.5	10507.3	10518.7	10433.9	10372.1	10154.4	9625.0	8868.7
10°	9519.6	9570.0	9643.3	9746.4	9950.4	10120.0	10202.5	10193.3	10067.3	9553.9	8630.4
12.5°	8783.9	8811.4	8923.7	9100.2	9350.0	9638.7	9858.7	9902.3	9904.6	9469.1	8431.0
15°	8151.4	8140.0	8227.1	8431.0	8781.7	9143.7	9537.9	9606.6	9716.6	9386.6	8245.4
17.5°	7610.6	7670.2	7683.9	7908.5	8231.7	8701.4	9203.3	9324.8	9544.8	9315.6	8091.9
20°	7276.0	7308.1	7337.9	7463.9	7755.0	8250.0	8889.4	9056.6	9384.4	9251.4	7920.0
22.5°	7177.5	7198.1	7172.9	7211.9	7418.1	7858.1	8547.9	8770.2	9230.8	9191.9	7780.2
25°	7253.1	7273.7	7214.2	7168.3	7239.4	7539.6	8217.9	8488.3	9107.1	9180.4	7674.8
27.5°	7436.4	7475.4	7392.9	7310.4	7269.2	7367.7	7958.9	8272.9	9022.3	9235.4	7626.7
30°	7722.9	7745.8	7683.9	7583.1	7489.2	7390.6	7823.7	8123.9	8999.4	9363.7	7622.1
32.5°	8034.6	8082.7	8048.3	7981.9	7860.4	7626.7	7862.7	8128.5	9054.4	9549.4	7679.4
35°	8419.6	8474.6	8506.7	8492.9	8337.1	8046.0	8110.2	8334.8	9201.0	9890.8	7835.2
37.5°	8797.7	8845.8	9026.9	9088.7	8951.2	8676.2	8591.4	8740.4	9524.1	10337.7	8117.1
40°	9230.8	9295.0	9549.4	9785.4	9718.9	9430.2	9274.4	9398.1	10019.1	11011.4	8651.0
42.5°	9645.6	9760.2	10147.5	10564.6	10626.4	10303.3	10200.2	10241.4	10752.5	11980.8	9395.8
45°	10234.6	10342.3	10841.9	11407.9	11698.9	11446.9	11341.4	11334.6	11758.5	13344.3	10603.5
47.5°	11084.8	11181.0	11770.0	12329.1	12847.1	12881.4	12682.1	12750.8	13023.5	14939.3	12083.9
50°	12127.5	12354.4	12741.6	13323.7	14015.8	14575.0	14636.8	14545.2	14778.9	16786.4	13862.3
52.5°	13642.3	13729.3	14084.6	14563.5	15374.8	16323.5	17059.1	16933.1	16859.8	18546.4	15658.9
55°	14772.1	14888.9	15441.2	16098.9	17288.3	18539.5	20134.5	20178.1	19252.3	20237.7	17416.6
57.5°	14430.6	14609.3	15445.8	16768.1	19382.9	21670.0	22857.0	22886.8	21466.0	21880.8	19401.2
60°	12677.5	12762.3	13960.8	15725.4	19561.6	25061.6	26718.5	26477.9	23718.7	23718.7	21154.3
62.5°	8990.2	9123.1	10094.8	12691.2	17666.4	26239.5	31343.1	30845.8	26821.6	25476.4	22199.3
65°	5745.2	5616.9	6260.8	8011.7	13161.0	24500.2	35369.5	35399.3	29741.2	26180.0	21628.7
67°	4161.7	4111.2	4296.9	5477.1	8923.7	20595.2	35454.3	37024.1	31418.7	25735.4	19804.5
67.5°	3806.5	3845.4	3980.6	4940.8	8107.9	18741.2	35069.3	36927.8	31796.8	25467.2	19144.5
70°	2885.2	2818.7	2965.4	3494.8	4860.6	11822.7	30167.4	33868.5	31327.0	22806.6	15296.8
72.5°	2122.1	2115.2	2319.2	2857.7	3742.3	6297.5	22646.2	27156.2	25593.3	17366.2	9631.9
75°	1432.3	1496.5	1821.9	2387.9	3391.7	4083.7	15438.9	19701.4	17767.3	9861.0	3937.1
77.5°	815.8	820.4	1173.3	1918.1	3045.6	3286.2	9148.3	12551.4	9405.0	3279.4	1168.7
80°	352.9	387.3	582.1	1393.3	2525.4	2910.4	5245.6	6897.9	3804.2	694.4	378.1
82.5°	130.6	153.5	256.7	857.1	1842.5	2397.1	3169.4	3293.1	1290.2	245.2	236.0
85°	0.0	4.6	94.0	401.0	960.2	1070.2	2117.5	1952.5	570.6	116.9	153.5
87.5°	0.0	0.0	0.0	41.2	126.0	398.7	657.7	733.3	137.5	41.2	36.7
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°	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0	9091.0
2.5°	9022.3	8873.3	8499.8	8126.2	7848.9	7617.5	7269.2	7078.9	6978.1	6829.2	6838.3
5°	8795.4	8492.9	7835.2	7154.6	6604.6	6068.3	5426.7	5167.7	4950.0	4826.2	4743.7
7.5°	8458.5	8011.7	7037.7	6130.2	5284.6	4347.3	3643.7	3174.0	2857.7	2740.8	2628.5
10°	8089.6	7496.0	6228.7	4970.6	3797.3	2830.2	2234.4	1803.5	1650.0	1507.9	1521.7
12.5°	7748.1	7026.2	5486.2	3923.3	2660.6	1799.0	1402.5	1226.0	1175.6	1159.6	1159.6
15°	7468.5	6577.1	4688.7	2949.4	1824.2	1292.5	1122.9	1074.8	1056.5	1051.9	1051.9
17.5°	7170.6	6150.8	3969.2	2179.4	1326.9	1081.7	1024.4	992.3	985.4	980.8	980.8
20°	6904.8	5722.3	3286.2	1622.5	1072.5	974.0	937.3	916.7	909.8	905.2	907.5
22.5°	6652.7	5341.9	2644.6	1226.0	944.2	886.9	850.2	829.6	815.8	804.4	806.7
25°	6428.1	4975.2	2126.7	1003.7	850.2	799.8	763.1	733.3	703.5	689.8	687.5
27.5°	6270.0	4654.4	1656.9	859.4	765.4	710.4	664.6	627.9	589.0	568.3	563.7
30°	6139.4	4329.0	1310.8	758.5	680.6	627.9	570.6	517.9	476.7	456.0	446.9
32.5°	6054.6	4019.6	1033.5	676.0	609.6	545.4	481.2	428.5	382.7	362.1	357.5
35°	6040.8	3760.6	845.6	607.3	545.4	476.7	410.2	352.9	314.0	293.3	288.7
37.5°	6139.4	3561.2	708.1	552.3	492.7	417.1	343.7	291.0	256.7	240.6	238.3
40°	6402.9	3435.2	614.2	506.5	444.6	362.1	293.3	247.5	213.1	197.1	197.1
42.5°	6904.8	3439.8	552.3	462.9	396.5	309.4	249.8	206.2	176.5	162.7	158.1
45°	7688.5	3595.6	499.6	419.4	350.6	268.1	213.1	169.6	139.8	128.3	128.3
47.5°	8738.1	3905.0	453.7	375.8	309.4	229.2	181.0	137.5	112.3	100.8	100.8
50°	10110.8	4402.3	414.8	339.2	275.0	197.1	146.7	112.3	87.1	77.9	75.6
52.5°	11545.4	5016.4	369.0	307.1	236.0	167.3	119.2	87.1	66.5	59.6	57.3
55°	13128.9	5616.9	325.4	275.0	192.5	139.8	94.0	68.7	48.1	41.2	41.2
57.5°	14726.2	6205.8	272.7	229.2	151.2	103.1	73.3	50.4	32.1	25.2	25.2
60°	16078.3	6396.0	231.5	185.6	114.6	73.3	52.7	32.1	18.3	11.5	11.5
62.5°	16263.9	5754.4	194.8	142.1	82.5	50.4	27.5	18.3	6.9	4.6	4.6
65°	15255.6	4675.0	162.7	107.7	55.0	25.2	11.5	6.9	2.3	0.0	0.0
67°	13669.8	3790.4	132.9	80.2	39.0	16.0	6.9	2.3	0.0	0.0	0.0
67.5°	13264.1	3614.0	128.3	75.6	34.4	13.7	4.6	2.3	0.0	0.0	0.0
70°	10408.7	2706.5	91.7	45.8	20.6	9.2	0.0	0.0	0.0	0.0	0.0
72.5°	6469.4	1530.8	66.5	27.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0
75°	2445.2	536.2	45.8	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	760.8	204.0	27.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	256.7	77.9	18.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	158.1	32.1	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	98.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	4.6	2.3	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)