

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: P455331

Luminaire Tested: **GALN-SA6C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455331
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-SA6C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA 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: 31407 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

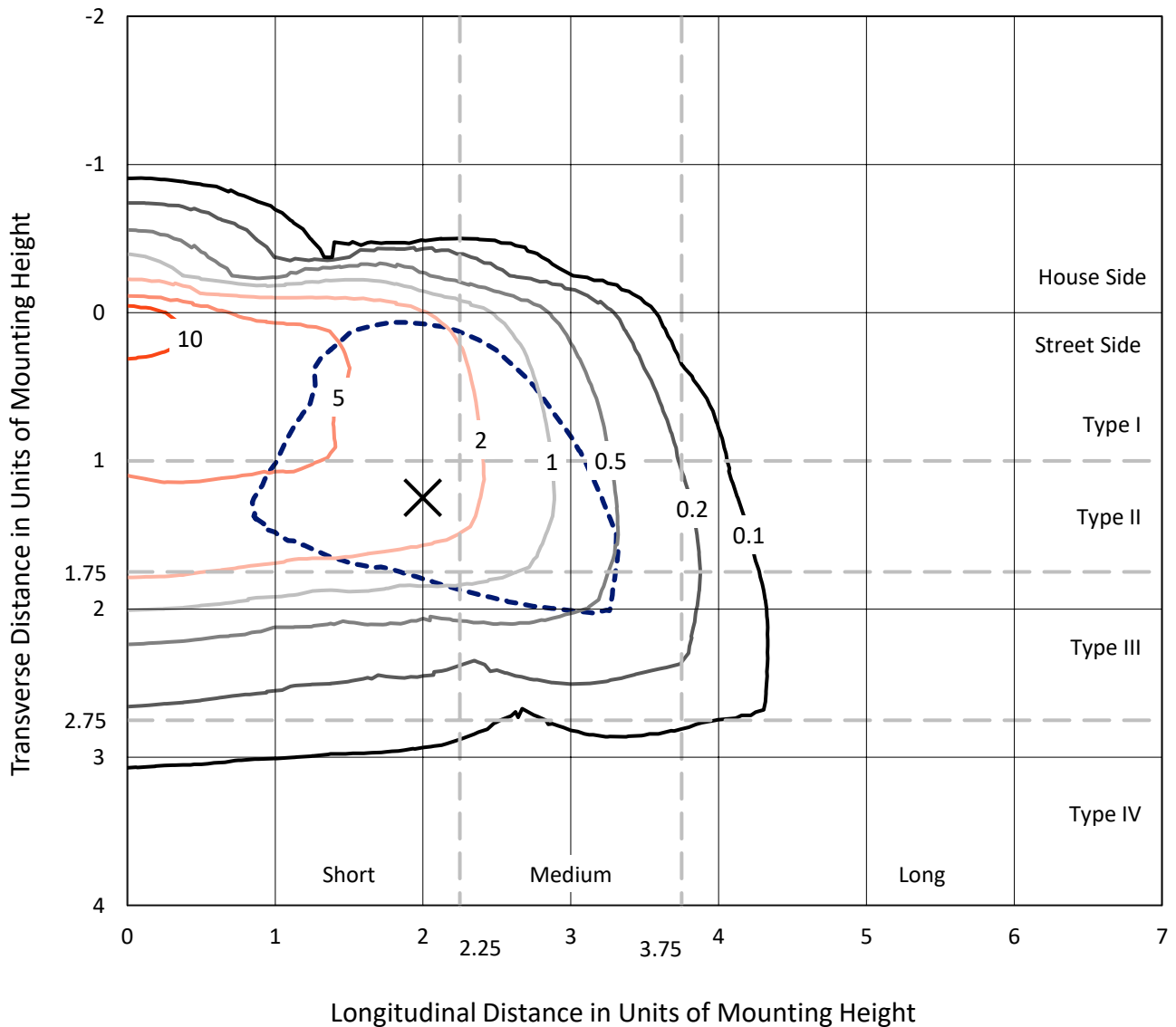
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

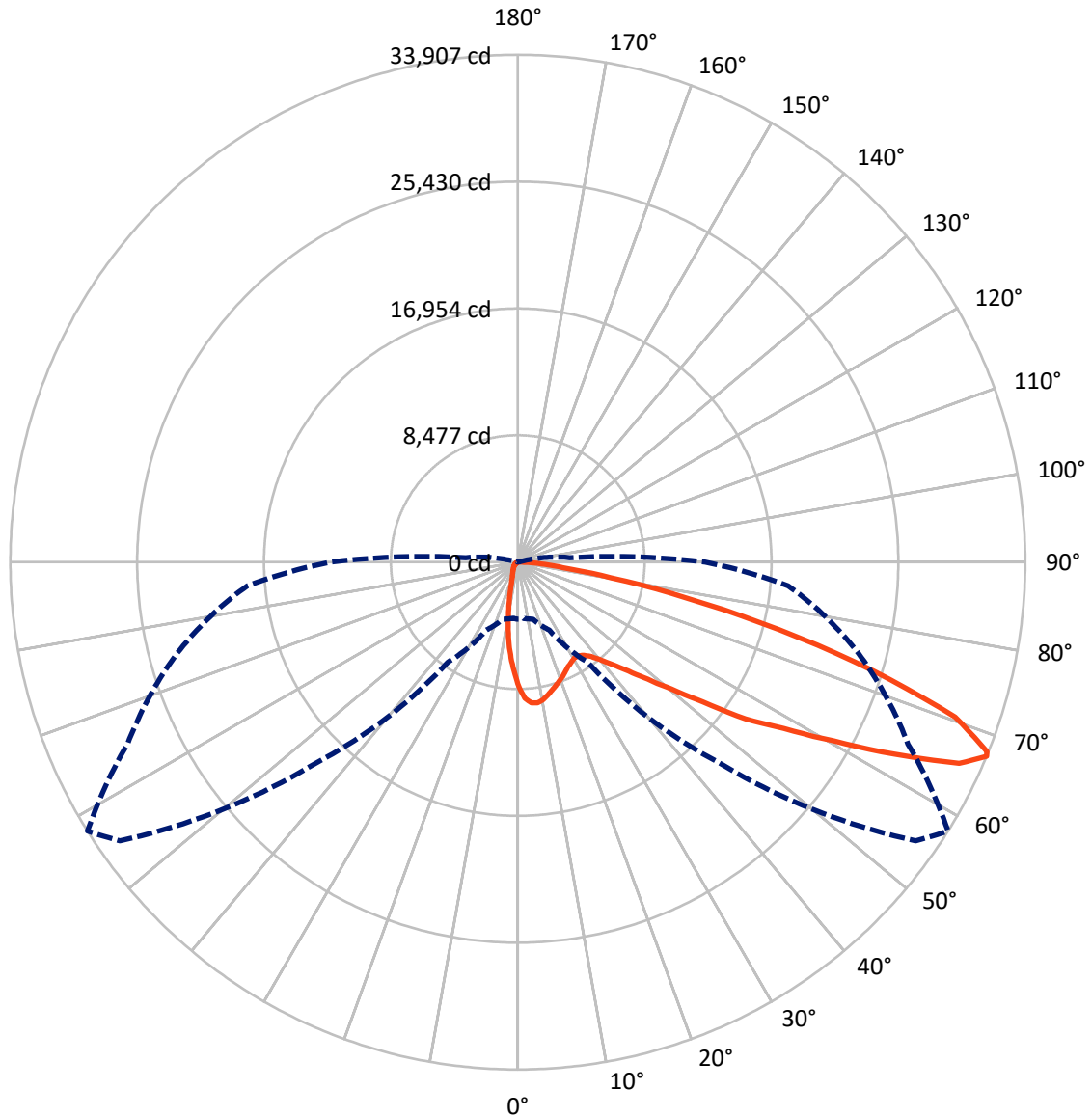
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	2266.5	0.0	2266.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29140.5	0.0	29140.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	31407.0	0.0	31407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.6	2.2
10°-20°	1459.2	4.6
20°-30°	1977.3	6.3
30°-40°	2742.3	8.7
40°-50°	4373.7	13.9
50°-60°	7560.3	24.1
60°-70°	8636.3	27.5
70°-80°	3600.5	11.5
80°-90°	381.8	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°	31407.0	100.0
0°-180°	31407.0	100.0

Coefficient of Utilization



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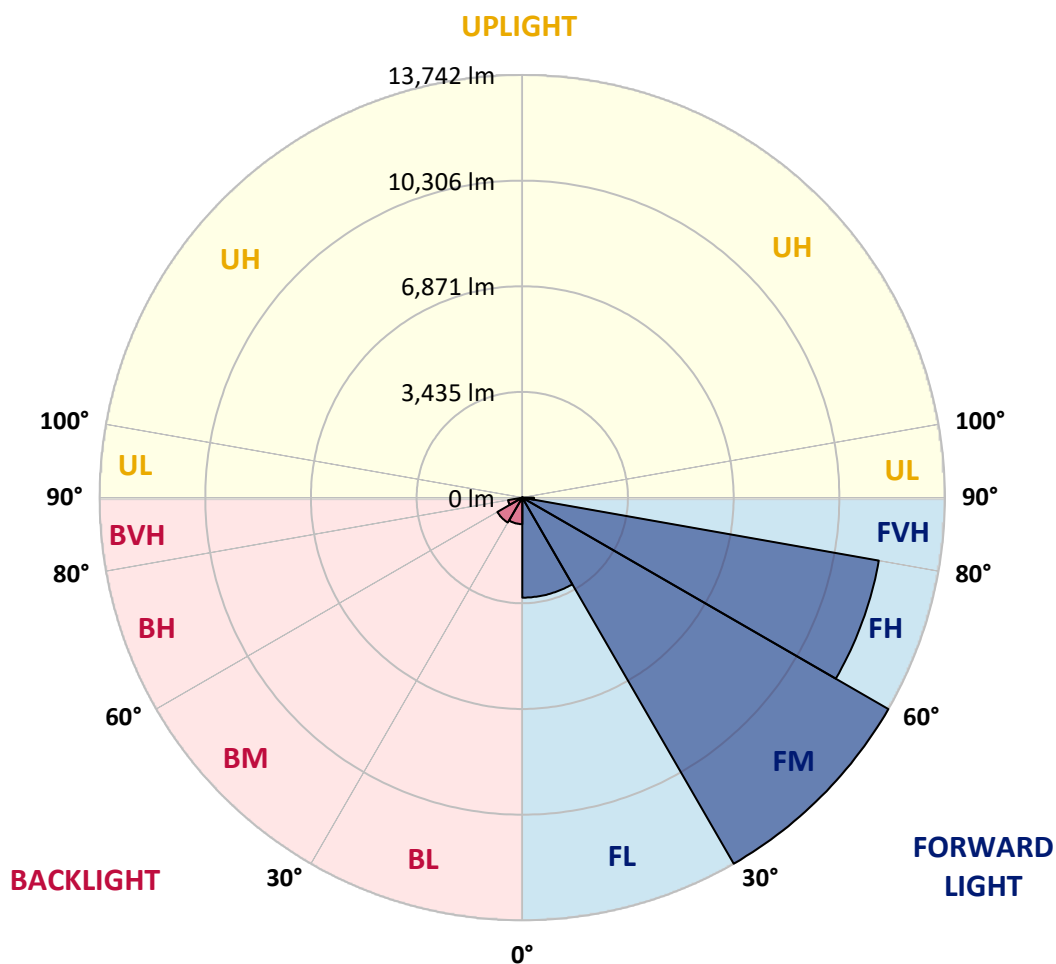
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3251.4	10.4			
FM (30°-60°)	13741.9	43.8			
FH (60°-80°)	11768.2	37.5			G4/12000
FVH (80°-90°)	379.0	1.2			G3/500
BL (0°-30°)	860.6	2.7	B2/1000		
BM (30°-60°)	934.5	3.0	B1/1000		
BH (60°-80°)	468.6	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7
2.5°	9662.6	9677.3	9622.7	9578.7	9465.3	9343.6	9182.0	9095.9	8949.0	8695.1	8413.9
5°	9889.3	9908.2	9899.8	9889.3	9845.2	9727.7	9522.0	9446.4	9230.3	8816.8	8308.9
7.5°	9385.6	9454.8	9463.2	9545.1	9622.7	9633.2	9555.6	9498.9	9299.5	8814.7	8122.1
10°	8718.2	8764.3	8831.5	8925.9	9112.7	9268.0	9343.6	9335.2	9219.8	8749.7	7903.9
12.5°	8044.5	8069.7	8172.5	8334.1	8562.9	8827.3	9028.8	9068.7	9070.8	8672.0	7721.3
15°	7465.2	7454.7	7534.5	7721.3	8042.4	8374.0	8735.0	8797.9	8898.7	8596.4	7551.3
17.5°	6969.9	7024.5	7037.1	7242.8	7538.7	7968.9	8428.5	8539.8	8741.3	8531.4	7410.7
20°	6663.5	6692.9	6720.2	6835.6	7102.1	7555.5	8141.0	8294.2	8594.3	8472.6	7253.3
22.5°	6573.3	6592.1	6569.1	6604.7	6793.6	7196.6	7828.3	8031.9	8453.7	8418.1	7125.2
25°	6642.5	6661.4	6606.8	6564.9	6629.9	6904.9	7526.1	7773.7	8340.4	8407.6	7028.7
27.5°	6810.4	6846.1	6770.5	6695.0	6657.2	6747.5	7288.9	7576.5	8262.7	8457.9	6984.6
30°	7072.8	7093.7	7037.1	6944.7	6858.7	6768.4	7165.1	7440.0	8241.8	8575.5	6980.4
32.5°	7358.2	7402.3	7370.8	7309.9	7198.7	6984.6	7200.8	7444.2	8292.1	8745.5	7032.9
35°	7710.8	7761.1	7790.5	7777.9	7635.2	7368.7	7427.4	7633.1	8426.4	9058.2	7175.6
37.5°	8057.1	8101.1	8266.9	8323.6	8197.7	7945.8	7868.2	8004.6	8722.4	9467.4	7433.7
40°	8453.7	8512.5	8745.5	8961.6	8900.8	8636.3	8493.6	8606.9	9175.7	10084.5	7922.7
42.5°	8833.6	8938.5	9293.2	9675.2	9731.9	9435.9	9341.5	9379.3	9847.3	10972.2	8604.8
45°	9373.0	9471.6	9929.1	10447.5	10714.1	10483.2	10386.7	10380.4	10768.6	12221.0	9710.9
47.5°	10151.6	10239.8	10779.1	11291.2	11765.5	11797.0	11614.4	11677.4	11927.1	13681.7	11066.7
50°	11106.5	11314.3	11669.0	12202.1	12835.9	13348.0	13404.7	13320.7	13534.8	15373.3	12695.3
52.5°	12493.8	12573.6	12898.9	13337.5	14080.5	14949.3	15623.0	15507.6	15440.4	16985.1	14340.7
55°	13528.5	13635.5	14141.3	14743.7	15832.9	16978.8	18439.5	18479.4	17631.5	18534.0	15950.4
57.5°	13215.8	13379.5	14145.5	15356.5	17751.2	19845.7	20932.8	20960.1	19658.9	20038.8	17767.9
60°	11610.2	11687.9	12785.5	14401.6	17914.9	22951.8	24469.2	24248.9	21722.0	21722.0	19373.5
62.5°	8233.4	8355.1	9245.0	11622.8	16179.2	24030.6	28704.5	28249.1	24563.7	23331.7	20330.5
65°	5261.5	5144.0	5733.8	7337.2	12053.1	22437.6	32392.0	32419.3	27237.5	23976.0	19807.9
67°	3811.3	3765.1	3935.1	5016.0	8172.5	18861.4	32469.6	33907.3	28773.7	23568.9	18137.3
67.5°	3486.0	3521.7	3645.5	4524.9	7425.3	17163.5	32117.0	33819.1	29120.0	23323.3	17532.9
70°	2642.3	2581.5	2715.8	3200.6	4451.4	10827.4	27627.8	31017.3	28689.8	20886.7	14009.1
72.5°	1943.4	1937.1	2123.9	2617.1	3427.2	5767.3	20739.8	24870.1	23438.7	15904.3	8821.0
75°	1311.7	1370.5	1668.5	2186.9	3106.1	3740.0	14139.2	18042.9	16271.5	9030.9	3605.6
77.5°	747.2	751.3	1074.6	1756.6	2789.2	3009.6	8378.2	11494.8	8613.2	3003.3	1070.4
80°	323.2	354.7	533.1	1276.0	2312.8	2665.4	4804.0	6317.2	3483.9	635.9	346.3
82.5°	119.6	140.6	235.1	784.9	1687.4	2195.3	2902.6	3015.9	1181.6	224.6	216.2
85°	0.0	4.2	86.0	367.3	879.4	980.1	1939.2	1788.1	522.6	107.0	140.6
87.5°	0.0	0.0	0.0	37.8	115.4	365.2	602.3	671.6	125.9	37.8	33.6
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°	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7	8325.7
2.5°	8262.7	8126.3	7784.2	7442.1	7188.2	6976.2	6657.2	6483.0	6390.7	6254.2	6262.6
5°	8055.0	7777.9	7175.6	6552.3	6048.6	5557.5	4969.8	4732.7	4533.3	4419.9	4344.4
7.5°	7746.5	7337.2	6445.2	5614.1	4839.7	3981.3	3337.0	2906.8	2617.1	2510.1	2407.3
10°	7408.6	6865.0	5704.4	4552.2	3477.6	2591.9	2046.3	1651.7	1511.1	1381.0	1393.6
12.5°	7095.8	6434.7	5024.4	3593.0	2436.6	1647.5	1284.4	1122.8	1076.7	1062.0	1062.0
15°	6839.8	6023.4	4294.0	2701.1	1670.6	1183.7	1028.4	984.3	967.5	963.3	963.3
17.5°	6567.0	5633.0	3635.0	1995.9	1215.2	990.6	938.1	908.8	902.5	898.3	898.3
20°	6323.5	5240.6	3009.6	1485.9	982.2	892.0	858.4	839.5	833.2	829.0	831.1
22.5°	6092.6	4892.2	2421.9	1122.8	864.7	812.2	778.6	759.7	747.2	736.7	738.8
25°	5887.0	4556.4	1947.6	919.2	778.6	732.5	698.9	671.6	644.3	631.7	629.6
27.5°	5742.2	4262.5	1517.4	787.0	701.0	650.6	608.6	575.1	539.4	520.5	516.3
30°	5622.5	3964.5	1200.5	694.7	623.3	575.1	522.6	474.3	436.5	417.6	409.3
32.5°	5544.9	3681.2	946.5	619.1	558.3	499.5	440.7	392.5	350.5	331.6	327.4
35°	5532.3	3444.0	774.4	556.2	499.5	436.5	375.7	323.2	287.5	268.6	264.4
37.5°	5622.5	3261.4	648.5	505.8	451.2	382.0	314.8	266.5	235.1	220.4	218.3
40°	5863.9	3146.0	562.5	463.8	407.2	331.6	268.6	226.7	195.2	180.5	180.5
42.5°	6323.5	3150.2	505.8	423.9	363.1	283.3	228.8	188.9	161.6	149.0	144.8
45°	7041.3	3292.9	457.5	384.1	321.1	245.6	195.2	155.3	128.0	117.5	117.5
47.5°	8002.5	3576.3	415.6	344.2	283.3	209.9	165.8	125.9	102.8	92.3	92.3
50°	9259.6	4031.7	379.9	310.6	251.8	180.5	134.3	102.8	79.8	71.4	69.3
52.5°	10573.5	4594.1	337.9	281.2	216.2	153.2	109.1	79.8	60.9	54.6	52.5
55°	12023.7	5144.0	298.0	251.8	176.3	128.0	86.0	63.0	44.1	37.8	37.8
57.5°	13486.5	5683.4	249.8	209.9	138.5	94.4	67.2	46.2	29.4	23.1	23.1
60°	14724.8	5857.6	212.0	170.0	104.9	67.2	48.3	29.4	16.8	10.5	10.5
62.5°	14894.8	5269.9	178.4	130.1	75.6	46.2	25.2	16.8	6.3	4.2	4.2
65°	13971.3	4281.4	149.0	98.6	50.4	23.1	10.5	6.3	2.1	0.0	0.0
67°	12519.0	3471.3	121.7	73.5	35.7	14.7	6.3	2.1	0.0	0.0	0.0
67.5°	12147.5	3309.7	117.5	69.3	31.5	12.6	4.2	2.1	0.0	0.0	0.0
70°	9532.5	2478.6	83.9	42.0	18.9	8.4	0.0	0.0	0.0	0.0	0.0
72.5°	5924.7	1402.0	60.9	25.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0
75°	2239.4	491.1	42.0	16.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	696.8	186.8	25.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	235.1	71.4	16.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	144.8	29.4	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	4.2	2.1	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)