

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: P454403

Luminaire Tested: **GALN-SA5C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454403
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-SA5C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26524 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

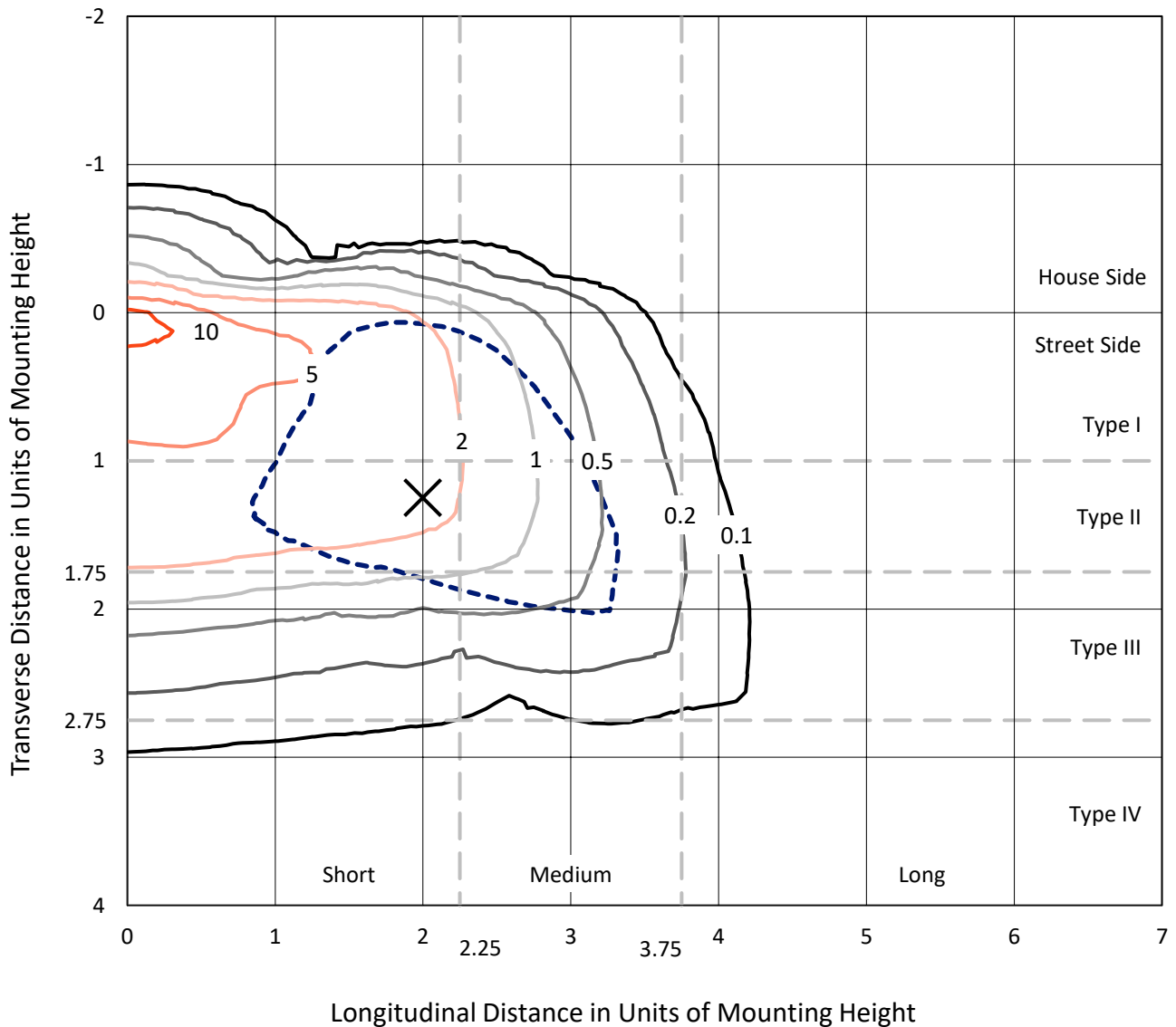
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

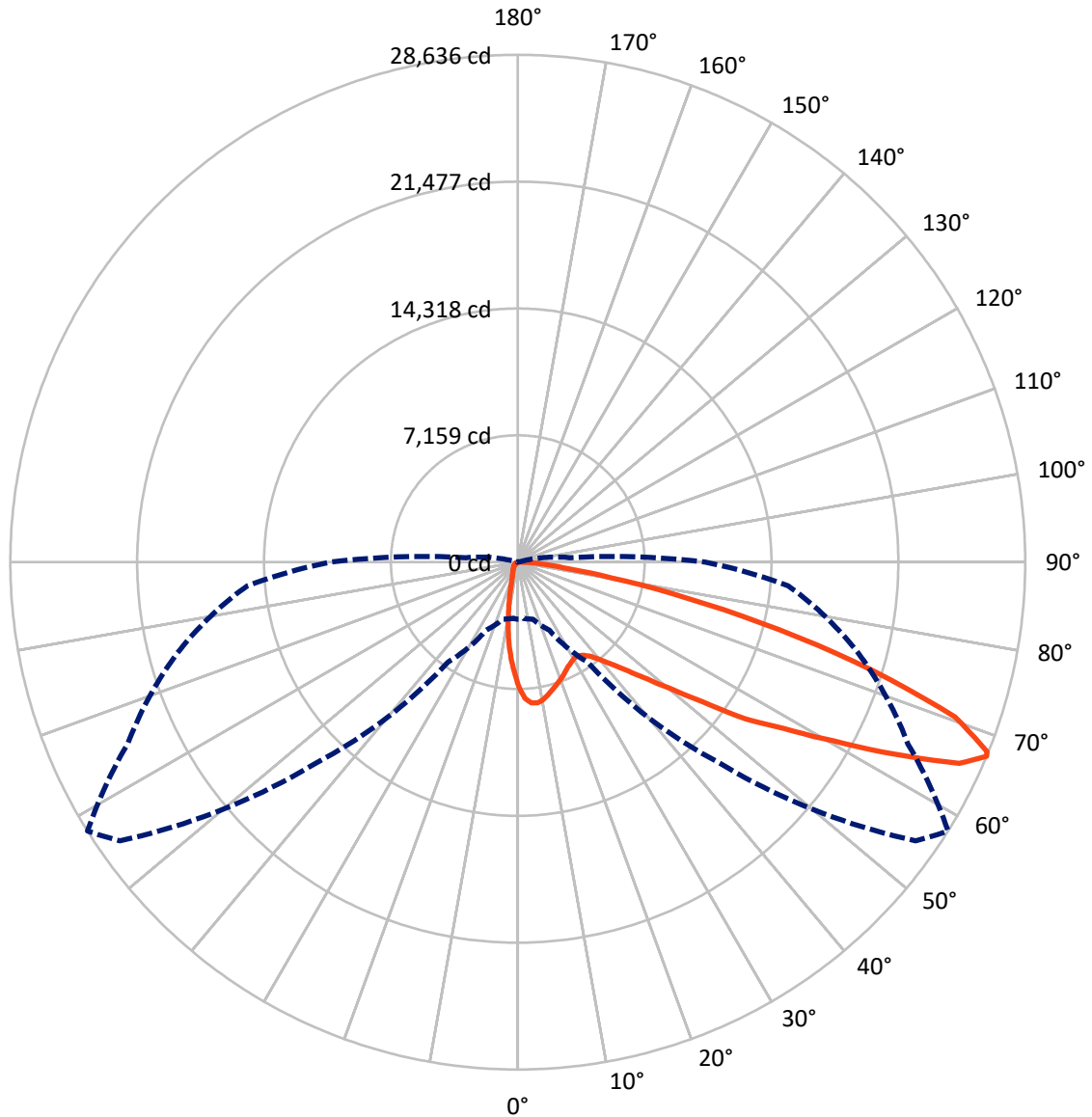
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	1914.1	0.0	1914.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24609.9	0.0	24609.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	26524.0	0.0	26524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.6	2.2
10°-20°	1232.3	4.6
20°-30°	1669.8	6.3
30°-40°	2316.0	8.7
40°-50°	3693.7	13.9
50°-60°	6384.9	24.1
60°-70°	7293.5	27.5
70°-80°	3040.7	11.5
80°-90°	322.4	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°	26524.0	100.0
0°-180°	26524.0	100.0

Coefficient of Utilization



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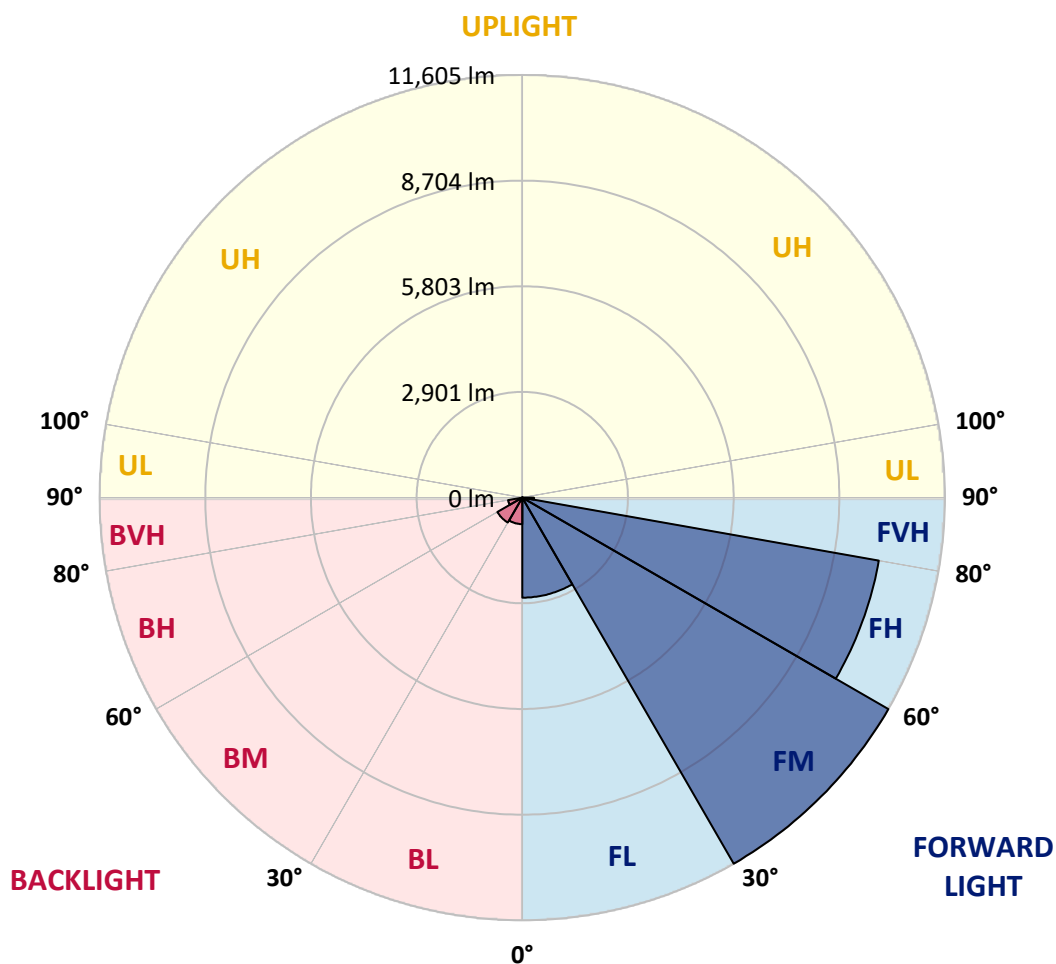
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2745.9	10.4			
FM (30°-60°)	11605.4	43.8			
FH (60°-80°)	9938.6	37.5			G4/12000
FVH (80°-90°)	320.1	1.2			G3/500
BL (0°-30°)	726.8	2.7	B2/1000		
BM (30°-60°)	789.2	3.0	B1/1000		
BH (60°-80°)	395.7	1.5	B1/500		G1/500
BVH (80°-90°)	2.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3
2.5°	8160.3	8172.7	8126.6	8089.4	7993.7	7890.9	7754.4	7681.8	7557.7	7343.2	7105.7
5°	8351.7	8367.7	8360.6	8351.7	8314.5	8215.3	8041.6	7977.8	7795.2	7446.0	7017.1
7.5°	7926.4	7984.8	7991.9	8061.1	8126.6	8135.5	8069.9	8022.1	7853.7	7444.2	6859.3
10°	7362.7	7401.7	7458.4	7538.2	7695.9	7827.1	7890.9	7883.8	7786.3	7389.3	6675.0
12.5°	6793.8	6815.0	6901.9	7038.4	7231.6	7454.9	7625.0	7658.7	7660.5	7323.7	6520.8
15°	6304.6	6295.7	6363.1	6520.8	6792.0	7072.0	7376.9	7430.1	7515.1	7259.9	6377.2
17.5°	5886.3	5932.4	5943.0	6116.7	6366.6	6730.0	7118.1	7212.1	7382.2	7205.0	6258.5
20°	5627.5	5652.3	5675.4	5772.8	5997.9	6380.8	6875.3	7004.7	7258.1	7155.3	6125.6
22.5°	5551.3	5567.2	5547.7	5577.9	5737.4	6077.7	6611.2	6783.1	7139.4	7109.3	6017.4
25°	5609.8	5625.7	5579.6	5544.2	5599.1	5831.3	6356.0	6565.1	7043.7	7100.4	5935.9
27.5°	5751.6	5781.7	5717.9	5654.1	5622.2	5698.4	6155.7	6398.5	6978.1	7142.9	5898.7
30°	5973.1	5990.8	5943.0	5865.0	5792.3	5716.1	6051.1	6283.3	6960.4	7242.2	5895.1
32.5°	6214.2	6251.4	6224.8	6173.4	6079.5	5898.7	6081.2	6286.8	7002.9	7385.8	5939.4
35°	6511.9	6554.5	6579.3	6568.7	6448.1	6223.0	6272.7	6446.4	7116.3	7649.9	6060.0
37.5°	6804.4	6841.6	6981.6	7029.5	6923.2	6710.5	6644.9	6760.1	7366.3	7995.5	6278.0
40°	7139.4	7189.0	7385.8	7568.3	7516.9	7293.6	7173.1	7268.8	7749.1	8516.6	6691.0
42.5°	7460.2	7548.8	7848.4	8170.9	8218.8	7968.9	7889.1	7921.0	8316.3	9266.3	7267.0
45°	7915.7	7999.0	8385.4	8823.2	9048.3	8853.3	8771.8	8766.5	9094.4	10320.9	8201.1
47.5°	8573.3	8647.7	9103.3	9535.7	9936.3	9962.9	9808.7	9861.9	10072.8	11554.5	9346.1
50°	9379.8	9555.2	9854.8	10305.0	10840.2	11272.7	11320.6	11249.7	11430.5	12983.1	10721.5
52.5°	10551.3	10618.7	10893.4	11263.9	11891.3	12625.1	13194.0	13096.6	13039.8	14344.4	12111.1
55°	11425.1	11515.5	11942.7	12451.4	13371.3	14339.0	15572.7	15606.3	14890.3	15652.4	13470.5
57.5°	11161.1	11299.3	11946.2	12968.9	14991.3	16760.2	17678.3	17701.4	16602.4	16923.3	15005.5
60°	9805.1	9870.7	10797.7	12162.5	15129.5	19383.4	20664.9	20478.8	18344.8	18344.8	16361.4
62.5°	6953.3	7056.1	7807.6	9815.8	13663.7	20294.4	24241.7	23857.0	20744.6	19704.2	17169.6
65°	4443.5	4344.3	4842.3	6196.4	10179.1	18949.2	27355.8	27378.9	23002.7	20248.4	16728.3
67°	3218.8	3179.8	3323.3	4236.1	6901.9	15928.9	27421.4	28635.5	24300.2	19904.5	15317.4
67.5°	2944.0	2974.2	3078.7	3821.4	6270.9	14495.0	27123.6	28561.1	24592.6	19697.1	14807.0
70°	2231.5	2180.1	2293.5	2703.0	3759.3	9144.0	23332.4	26194.9	24229.3	17639.3	11831.0
72.5°	1641.3	1636.0	1793.7	2210.2	2894.4	4870.7	17515.3	21003.4	19794.6	13431.5	7449.6
75°	1107.8	1157.4	1409.1	1846.9	2623.2	3158.5	11940.9	15237.7	13741.7	7626.8	3045.1
77.5°	631.0	634.5	907.5	1483.5	2355.6	2541.7	7075.6	9707.7	7274.1	2536.4	903.9
80°	273.0	299.5	450.2	1077.6	1953.2	2251.0	4057.1	5335.0	2942.3	537.0	292.5
82.5°	101.0	118.8	198.5	662.9	1425.0	1854.0	2451.3	2547.0	997.9	189.7	182.6
85°	0.0	3.5	72.7	310.2	742.7	827.7	1637.7	1510.1	441.3	90.4	118.8
87.5°	0.0	0.0	0.0	31.9	97.5	308.4	508.7	567.2	106.3	31.9	28.4
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°	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3	7031.3
2.5°	6978.1	6862.9	6574.0	6285.1	6070.6	5891.6	5622.2	5475.1	5397.1	5281.9	5289.0
5°	6802.6	6568.7	6060.0	5533.6	5108.2	4693.4	4197.1	3996.9	3828.5	3732.8	3669.0
7.5°	6542.1	6196.4	5443.2	4741.3	4087.2	3362.3	2818.2	2454.8	2210.2	2119.8	2033.0
10°	6256.7	5797.7	4817.5	3844.4	2936.9	2189.0	1728.1	1394.9	1276.2	1166.3	1176.9
12.5°	5992.6	5434.3	4243.2	3034.4	2057.8	1391.4	1084.7	948.3	909.3	896.9	896.9
15°	5776.4	5086.9	3626.4	2281.1	1410.9	999.7	868.5	831.3	817.1	813.5	813.5
17.5°	5546.0	4757.2	3069.9	1685.6	1026.2	836.6	792.3	767.5	762.1	758.6	758.6
20°	5340.4	4425.8	2541.7	1254.9	829.5	753.3	724.9	709.0	703.7	700.1	701.9
22.5°	5145.4	4131.6	2045.4	948.3	730.2	685.9	657.6	641.6	631.0	622.1	623.9
25°	4971.7	3848.0	1644.8	776.3	657.6	618.6	590.2	567.2	544.1	533.5	531.7
27.5°	4849.4	3599.8	1281.5	664.7	592.0	549.5	514.0	485.6	455.5	439.6	436.0
30°	4748.4	3348.1	1013.8	586.7	526.4	485.6	441.3	400.6	368.7	352.7	345.6
32.5°	4682.8	3108.9	799.4	522.9	471.5	421.8	372.2	331.4	296.0	280.0	276.5
35°	4672.2	2908.6	654.0	469.7	421.8	368.7	317.3	273.0	242.8	226.9	223.3
37.5°	4748.4	2754.4	547.7	427.2	381.1	322.6	265.9	225.1	198.5	186.1	184.3
40°	4952.2	2656.9	475.0	391.7	343.9	280.0	226.9	191.4	164.8	152.4	152.4
42.5°	5340.4	2660.4	427.2	358.0	306.6	239.3	193.2	159.5	136.5	125.8	122.3
45°	5946.5	2781.0	386.4	324.4	271.2	207.4	164.8	131.2	108.1	99.3	99.3
47.5°	6758.3	3020.2	350.9	290.7	239.3	177.2	140.0	106.3	86.8	78.0	78.0
50°	7820.0	3404.9	320.8	262.3	212.7	152.4	113.4	86.8	67.4	60.3	58.5
52.5°	8929.6	3879.9	285.4	237.5	182.6	129.4	92.2	67.4	51.4	46.1	44.3
55°	10154.3	4344.3	251.7	212.7	148.9	108.1	72.7	53.2	37.2	31.9	31.9
57.5°	11389.7	4799.8	210.9	177.2	117.0	79.8	56.7	39.0	24.8	19.5	19.5
60°	12435.4	4946.9	179.0	143.6	88.6	56.7	40.8	24.8	14.2	8.9	8.9
62.5°	12579.0	4450.6	150.7	109.9	63.8	39.0	21.3	14.2	5.3	3.5	3.5
65°	11799.1	3615.8	125.8	83.3	42.5	19.5	8.9	5.3	1.8	0.0	0.0
67°	10572.6	2931.6	102.8	62.0	30.1	12.4	5.3	1.8	0.0	0.0	0.0
67.5°	10258.9	2795.1	99.3	58.5	26.6	10.6	3.5	1.8	0.0	0.0	0.0
70°	8050.4	2093.3	70.9	35.4	16.0	7.1	0.0	0.0	0.0	0.0	0.0
72.5°	5003.6	1184.0	51.4	21.3	10.6	3.5	0.0	0.0	0.0	0.0	0.0
75°	1891.2	414.8	35.4	14.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	588.5	157.7	21.3	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.5	60.3	14.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	122.3	24.8	8.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	76.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	3.5	1.8	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)