

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: P532601

Luminaire Tested: **GALN-SA8A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18060 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

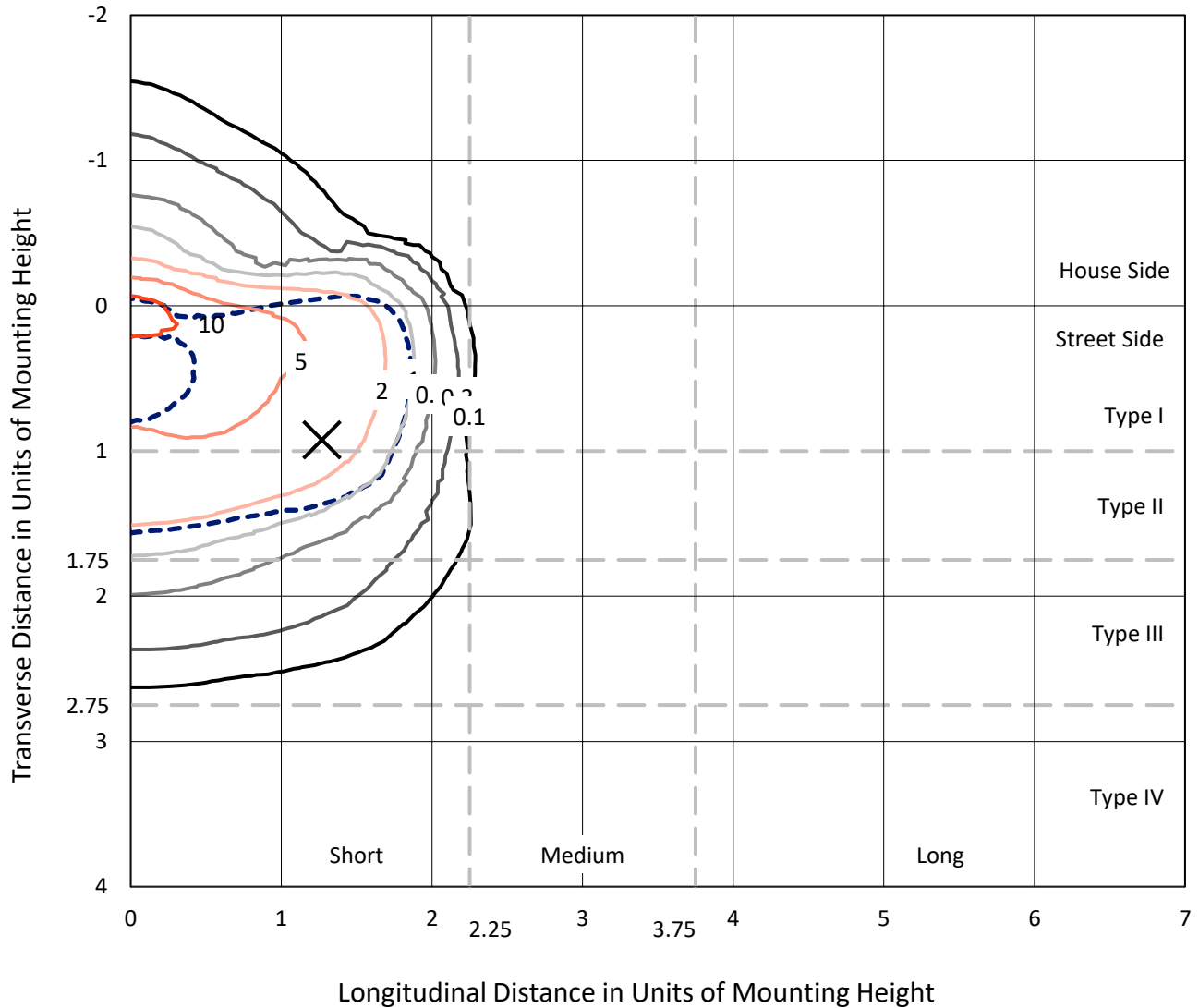
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

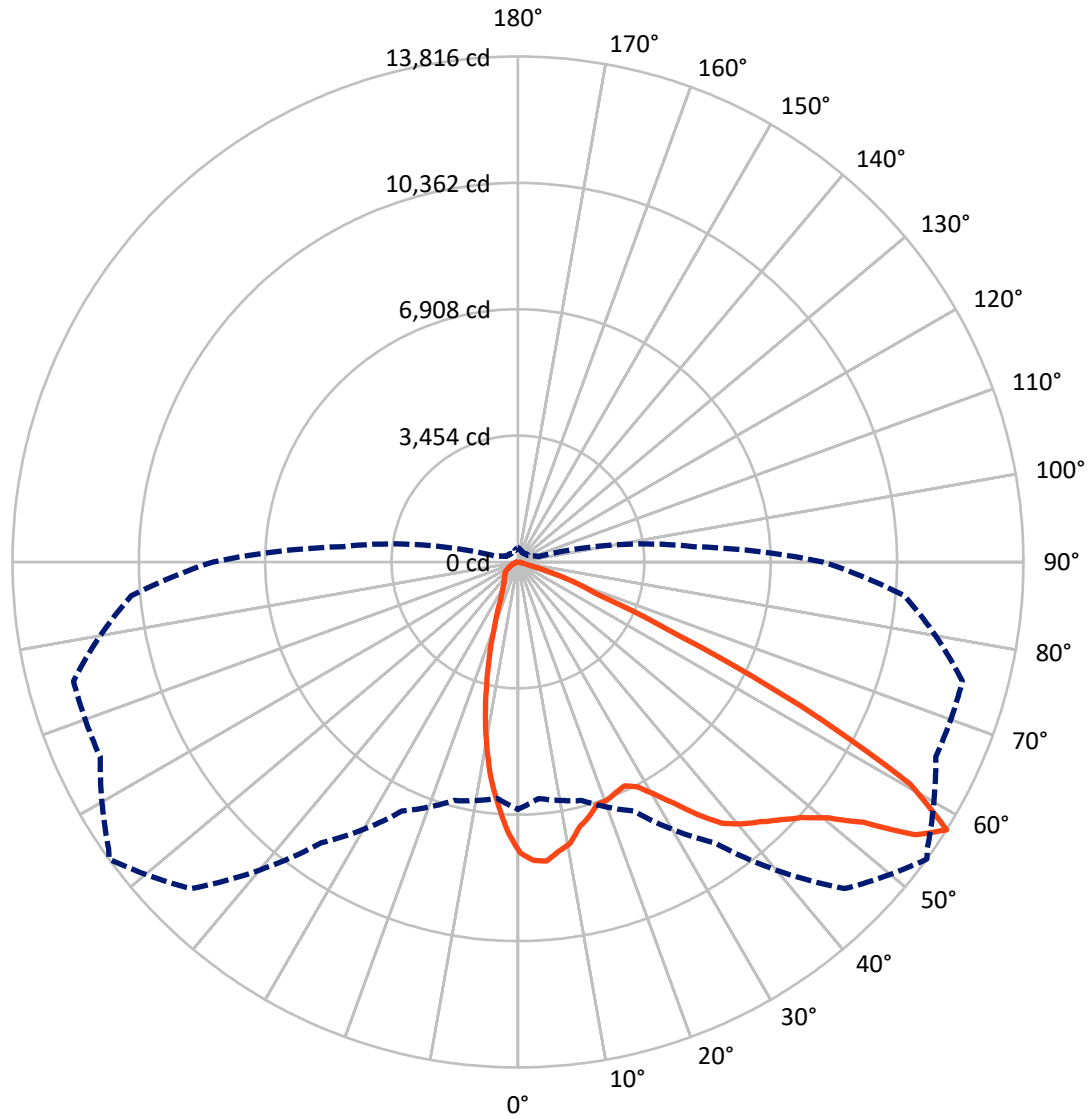
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2552.2	0.0	2552.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15507.8	0.0	15507.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	18060.0	0.0	18060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.7	3.7
10°-20°	1421.4	7.9
20°-30°	1883.6	10.4
30°-40°	2737.4	15.2
40°-50°	4059.1	22.5
50°-60°	5075.8	28.1
60°-70°	2002.2	11.1
70°-80°	199.3	1.1
80°-90°	15.5	0.1
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°	18060.0	100.0
0°-180°	18060.0	100.0

Coefficient of Utilization

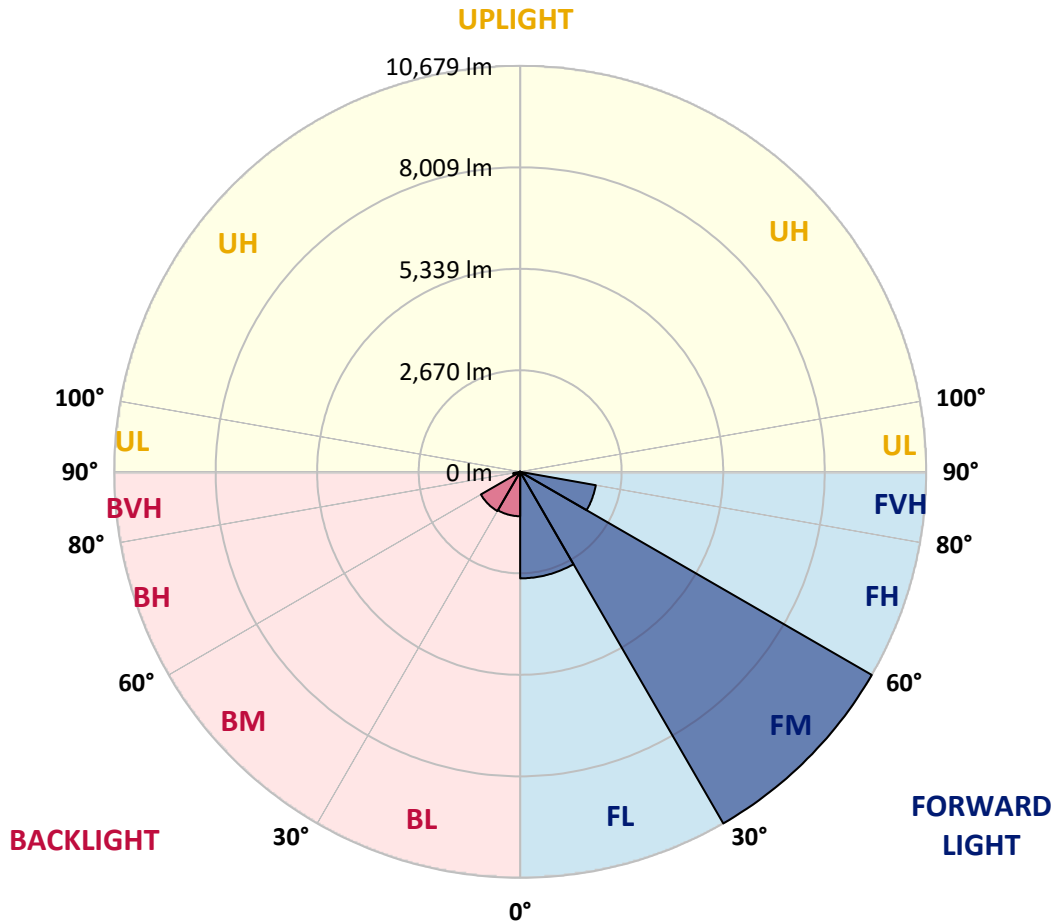


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2803.4	15.5			
FM (30°-60°)	10678.8	59.1			
FH (60°-80°)	2018.5	11.2			G2/5000
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1167.2	6.5	B3/2500		
BM (30°-60°)	1193.5	6.6	B2/2500		
BH (60°-80°)	183.0	1.0	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7
2.5°	8419.1	8331.8	8338.5	8308.3	8268.0	8298.2	8167.2	8197.5	8194.1	8016.1	7898.6
5°	8207.5	8301.6	8204.2	8284.8	8207.5	8291.5	8210.9	8150.5	8053.1	7922.1	7703.8
7.5°	7848.2	7757.5	7784.4	7885.2	7901.9	8090.0	7989.3	8066.5	8026.2	7767.6	7468.7
10°	7126.2	7106.0	7240.4	7374.7	7539.3	7740.7	7818.0	7774.3	7744.1	7646.7	7247.1
12.5°	6572.1	6629.2	6625.8	6847.5	7126.2	7240.4	7441.9	7435.1	7603.1	7421.7	7038.9
15°	6044.8	6075.1	6216.1	6353.8	6662.8	6988.5	7237.0	7270.6	7472.1	7344.5	6877.7
17.5°	5722.4	5678.8	5789.6	5954.2	6269.8	6696.3	6971.7	7052.3	7327.7	7300.8	6693.0
20°	5403.4	5403.4	5494.1	5688.9	5977.7	6457.9	6948.2	6924.7	7327.7	7250.4	6494.8
22.5°	5295.9	5349.7	5373.2	5520.9	5863.5	6276.6	6847.5	6891.1	7384.8	7226.9	6407.5
25°	5443.7	5373.2	5379.9	5497.4	5819.8	6189.2	6773.6	6871.0	7488.9	7344.5	6337.0
27.5°	5467.2	5537.7	5557.9	5638.5	5853.4	6216.1	6958.3	7156.4	7747.5	7619.8	6357.2
30°	5672.1	5742.6	5739.2	5876.9	6024.7	6434.4	7371.3	7411.6	8281.4	7965.7	6481.4
32.5°	5920.6	5994.5	6018.0	6179.2	6296.7	6834.0	7875.1	7979.2	8795.2	8509.8	6807.2
35°	6229.5	6202.7	6310.1	6471.3	6723.2	7418.4	8489.6	8664.3	9349.3	9215.0	7143.0
37.5°	6615.7	6582.2	6686.3	6948.2	7290.7	8110.2	9057.2	9171.4	9752.3	9869.9	7764.3
40°	6887.8	6901.2	7216.9	7569.5	7932.2	8768.4	9416.5	9527.3	10034.4	10481.1	8234.4
42.5°	7341.1	7425.1	7804.6	8234.4	8613.9	9262.0	9708.7	9816.1	10165.4	10971.4	8869.1
45°	7999.3	7962.4	8382.2	8862.4	9282.2	9775.8	10054.6	10017.6	10242.6	11458.3	9268.7
47.5°	8845.6	8852.3	9131.1	9540.8	9977.3	10222.5	10440.8	10309.8	10403.8	11972.1	9802.7
50°	9423.2	9473.6	9698.6	10118.4	10336.7	10712.8	10991.5	10910.9	10880.7	12281.1	10138.5
52.5°	9571.0	9722.1	9843.0	10366.9	10877.3	11471.8	11827.7	11999.0	11461.7	12385.2	10565.0
55°	8456.1	8590.4	9016.9	9735.5	11082.2	12674.0	13164.3	13167.7	12220.6	12848.6	10863.9
57.5°	6760.1	6488.1	6750.1	7512.4	9369.5	12623.6	13815.8	13658.0	12600.1	12576.6	10605.3
60°	4674.7	4607.5	4624.3	4926.5	6484.8	10041.1	12311.3	12516.2	11602.7	10900.9	8395.6
62.5°	3704.1	3647.0	3573.2	3539.6	4026.5	6256.4	8684.4	8973.2	8113.5	7069.1	4976.9
65°	2901.5	2867.9	2878.0	3012.3	3009.0	3549.7	4748.6	4631.0	3707.5	2740.3	1564.9
67.5°	1957.9	2008.2	2048.5	2454.9	2663.1	2471.7	2293.7	2226.5	1205.6	507.1	345.9
70°	1101.5	1108.2	1151.9	1534.7	2021.7	1917.6	1581.7	1581.7	601.1	184.7	198.1
72.5°	601.1	581.0	540.7	661.6	900.0	913.4	705.2	614.6	178.0	120.9	110.8
75°	292.2	288.8	248.5	204.9	194.8	161.2	124.3	114.2	80.6	77.2	67.2
77.5°	60.4	57.1	30.2	30.2	33.6	36.9	47.0	47.0	57.1	57.1	47.0
80°	0.0	0.0	3.4	13.4	23.5	33.6	40.3	40.3	47.0	47.0	36.9
82.5°	0.0	0.0	3.4	10.1	20.1	30.2	36.9	40.3	47.0	50.4	40.3
85°	0.0	0.0	0.0	6.7	16.8	23.5	20.1	20.1	16.8	13.4	6.7
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7	7955.7
2.5°	7838.1	7831.4	7676.9	7589.6	7431.8	7294.1	7183.3	7102.7	7102.7	7052.3	7005.3
5°	7616.5	7559.4	7230.3	7018.7	6719.8	6498.2	6347.1	6229.5	6044.8	6095.2	5897.1
7.5°	7341.1	7196.7	6760.1	6437.7	6024.7	5709.0	5386.6	5101.2	4825.8	4701.5	4768.7
10°	7045.6	6793.7	6206.0	5695.6	5181.8	4604.1	4228.0	3771.3	3489.2	3472.4	3398.5
12.5°	6733.3	6447.8	5732.5	5027.3	4352.3	3657.1	3082.9	2656.4	2464.9	2253.4	2293.7
15°	6498.2	6075.1	5205.3	4355.6	3459.0	2757.1	2179.5	1850.4	1669.0	1618.7	1601.9
17.5°	6243.0	5789.6	4668.0	3640.3	2713.5	1984.7	1568.3	1410.5	1339.9	1339.9	1329.9
20°	5977.7	5467.2	4134.0	2975.4	2035.1	1481.0	1256.0	1205.6	1202.3	1198.9	1198.9
22.5°	5803.0	5097.8	3650.4	2364.2	1534.7	1185.5	1091.4	1071.3	1084.7	1125.0	1125.0
25°	5618.3	4741.8	3116.4	1823.5	1188.8	1017.5	963.8	977.2	1010.8	1047.8	1034.3
27.5°	5430.3	4510.1	2612.7	1430.6	973.9	889.9	869.8	900.0	936.9	970.5	960.5
30°	5386.6	4261.6	2135.8	1084.7	836.2	775.8	789.2	816.1	853.0	866.4	879.9
32.5°	5453.8	4066.8	1749.6	889.9	728.7	711.9	711.9	725.4	748.9	779.1	769.0
35°	5645.2	3956.0	1383.6	772.4	668.3	651.5	648.1	661.6	675.0	685.1	675.0
37.5°	5937.4	3868.7	1131.7	685.1	628.0	601.1	594.4	591.1	604.5	607.8	614.6
40°	6310.1	3915.7	960.5	631.3	587.7	557.5	537.3	537.3	537.3	547.4	550.8
42.5°	6713.1	3979.5	829.5	601.1	550.8	513.8	493.7	486.9	493.7	507.1	503.7
45°	7136.3	4103.8	745.5	554.1	517.2	470.2	443.3	436.6	453.4	480.2	476.9
47.5°	7532.5	4281.8	681.7	523.9	483.6	439.9	406.3	399.6	429.9	466.8	470.2
50°	7928.8	4590.7	658.2	500.4	460.1	409.7	379.5	372.8	406.3	453.4	463.4
52.5°	8385.5	4923.2	641.4	470.2	433.2	386.2	352.6	345.9	382.8	443.3	446.6
55°	8684.4	5205.3	628.0	416.4	382.8	349.3	322.4	319.0	359.3	413.1	426.5
57.5°	8335.2	4812.4	581.0	362.7	325.7	309.0	285.5	285.5	319.0	369.4	379.5
60°	6320.2	3166.8	413.1	292.2	275.4	265.3	255.2	255.2	282.1	319.0	322.4
62.5°	3700.8	1706.0	265.3	235.1	235.1	225.0	208.2	208.2	235.1	255.2	258.6
65°	1098.1	547.4	214.9	201.5	198.1	181.3	164.6	161.2	181.3	191.4	188.1
67.5°	315.7	251.9	178.0	167.9	164.6	137.7	127.6	124.3	127.6	120.9	117.5
70°	188.1	171.3	137.7	141.0	124.3	100.7	90.7	87.3	80.6	70.5	63.8
72.5°	104.1	104.1	100.7	107.5	87.3	67.2	57.1	47.0	36.9	30.2	26.9
75°	63.8	67.2	70.5	73.9	57.1	43.7	36.9	23.5	13.4	6.7	6.7
77.5°	43.7	47.0	50.4	53.7	47.0	40.3	30.2	16.8	3.4	0.0	0.0
80°	33.6	36.9	43.7	47.0	50.4	53.7	40.3	16.8	3.4	0.0	0.0
82.5°	36.9	40.3	50.4	47.0	47.0	47.0	36.9	16.8	3.4	0.0	0.0
85°	6.7	10.1	16.8	16.8	23.5	30.2	23.5	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)