

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: P527543

Luminaire Tested: **GALN-SA2C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8598 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

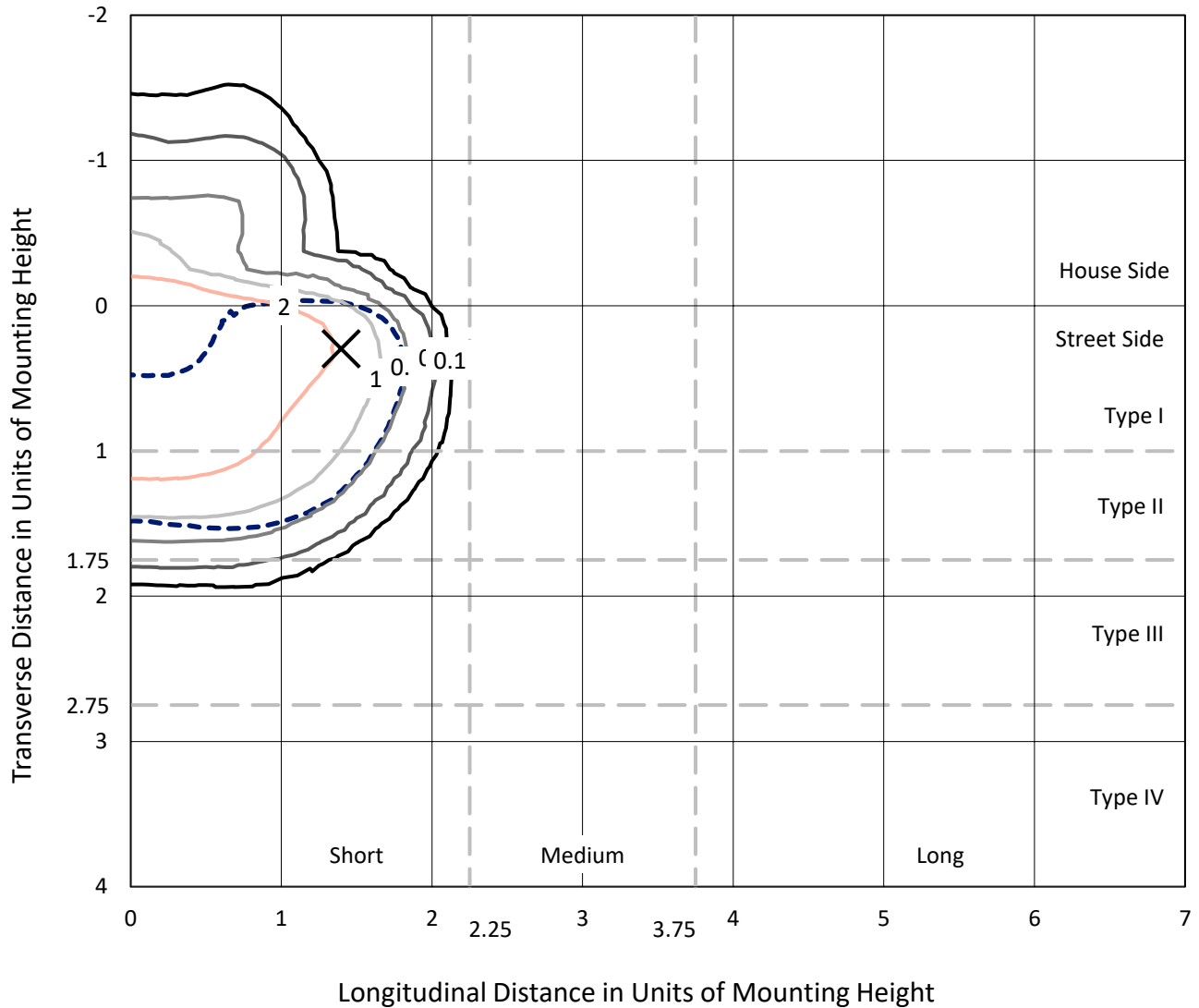
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

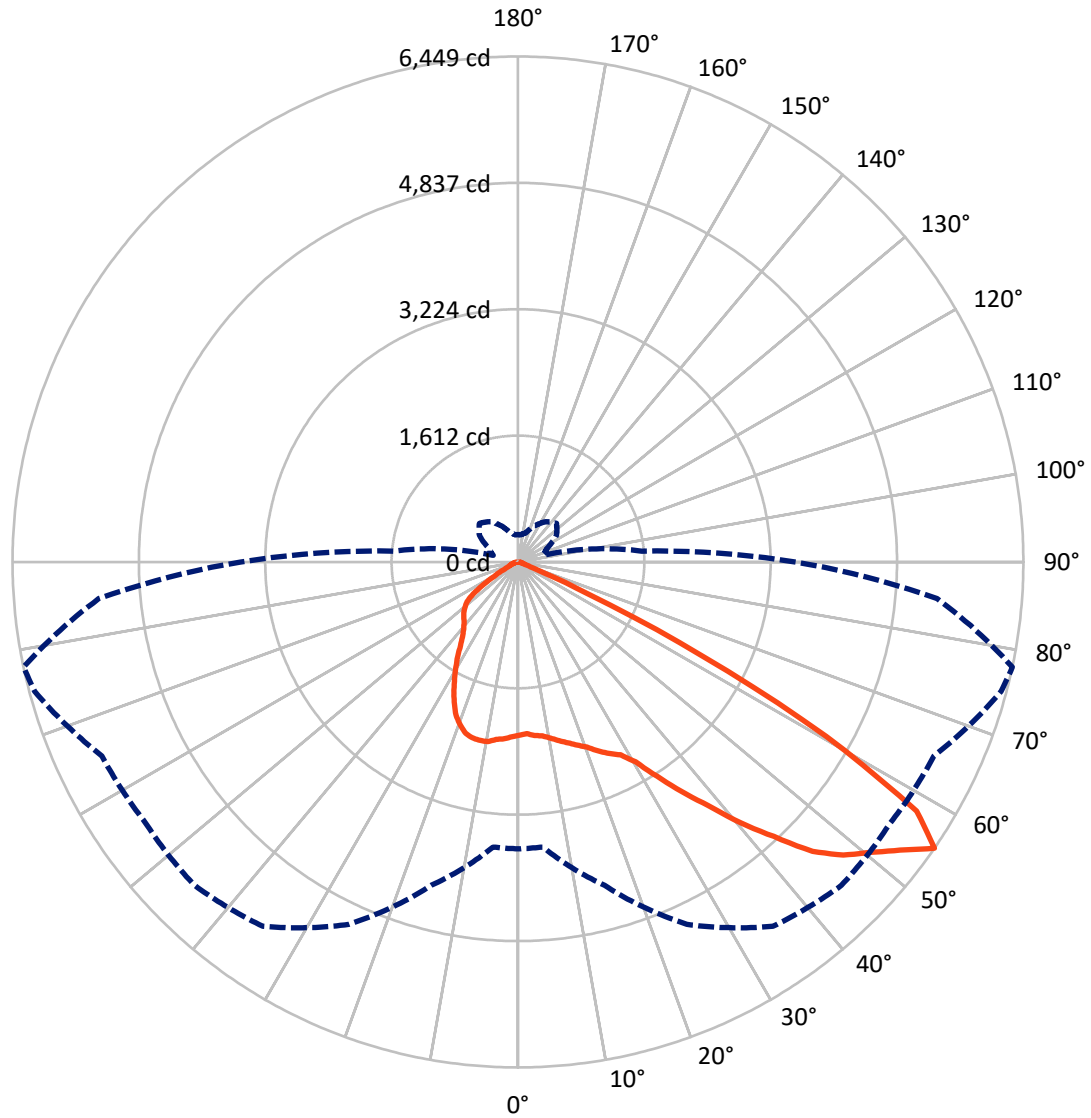
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.0	0.0	1597.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7001.0	0.0	7001.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	8598.0	0.0	8598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	2.3
10°-20°	521.7	6.1
20°-30°	914.4	10.6
30°-40°	1507.7	17.5
40°-50°	2193.9	25.5
50°-60°	2485.9	28.9
60°-70°	710.8	8.3
70°-80°	55.2	0.6
80°-90°	11.5	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°	8598.0	100.0
0°-180°	8598.0	100.0

Coefficient of Utilization



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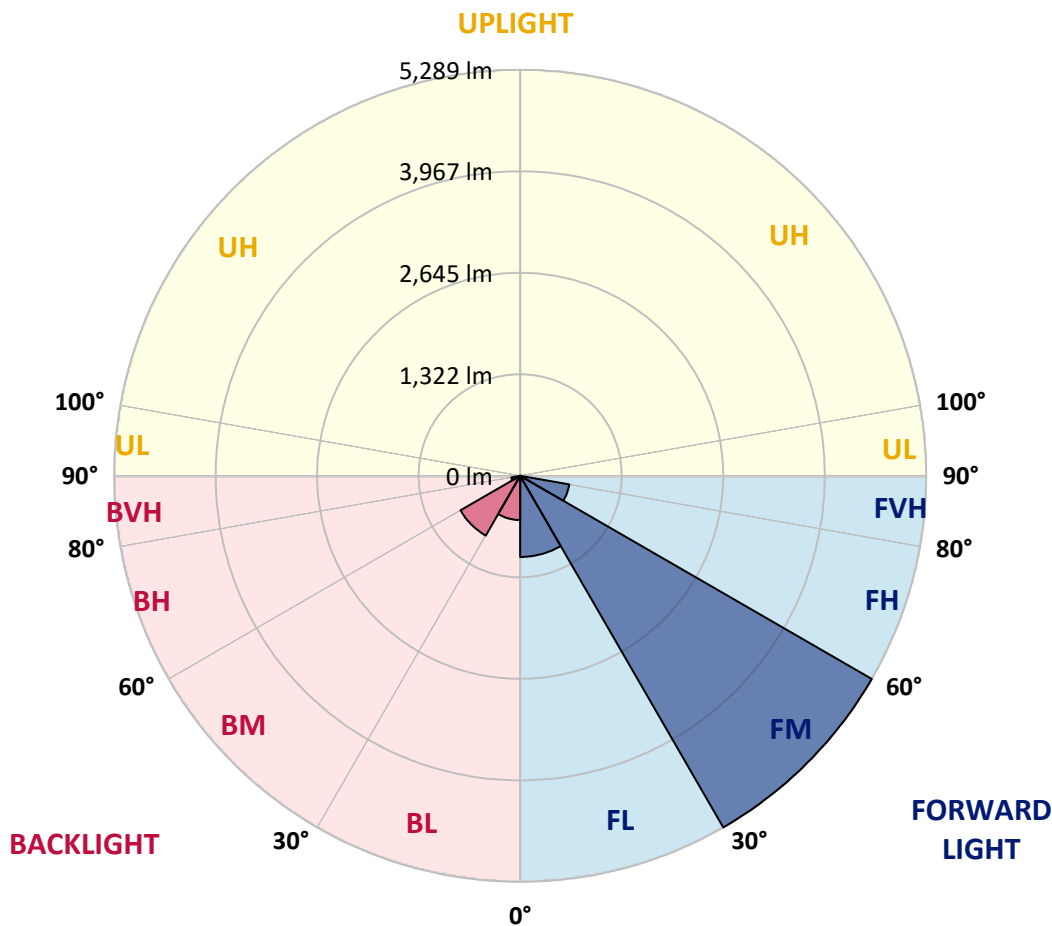
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.9	12.3			
FM (30°-60°)	5289.1	61.5			
FH (60°-80°)	649.4	7.6			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	576.2	6.7	B2/1000		
BM (30°-60°)	898.3	10.4	B1/1000		
BH (60°-80°)	116.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6
2.5°	2078.3	2098.3	2101.4	2126.0	2124.5	2166.0	2178.3	2179.8	2207.5	2193.6	2229.0
5°	2019.9	2009.2	2004.6	2047.6	2059.9	2096.8	2127.5	2146.0	2202.9	2222.8	2259.7
7.5°	1967.7	1967.7	1970.7	2009.2	2004.6	2052.2	2084.5	2141.4	2224.4	2241.3	2285.9
10°	1916.9	1898.5	1921.5	1961.5	1995.3	2016.9	2084.5	2138.3	2235.1	2284.3	2345.8
12.5°	1890.8	1900.0	1903.1	1932.3	1969.2	2033.8	2070.7	2159.8	2312.0	2341.2	2407.3
15°	2055.3	2036.8	1992.3	1966.1	1996.9	2027.6	2119.9	2210.6	2352.0	2393.5	2467.3
17.5°	2245.9	2230.5	2193.6	2122.9	2053.8	2110.6	2182.9	2265.9	2395.0	2456.5	2565.7
20°	2494.9	2470.3	2433.5	2295.1	2235.1	2173.7	2250.5	2348.9	2465.7	2521.1	2633.3
22.5°	2791.6	2791.6	2708.6	2541.1	2416.5	2358.1	2390.4	2447.3	2544.1	2619.5	2730.1
25°	3100.6	3091.4	3016.1	2842.4	2631.8	2562.6	2599.5	2639.4	2665.6	2707.1	2780.9
27.5°	3454.2	3400.4	3305.1	3112.9	2926.9	2793.2	2833.1	2797.8	2765.5	2787.0	2893.1
30°	3694.0	3727.8	3606.4	3421.9	3246.7	3097.5	3105.2	3074.5	2926.9	2957.6	3020.7
32.5°	3943.0	3964.5	3896.9	3795.4	3620.2	3446.5	3383.5	3357.3	3246.7	3260.5	3199.0
35°	4150.5	4192.1	4132.1	4087.5	4036.8	3896.9	3723.2	3807.7	3629.4	3595.6	3435.7
37.5°	4341.2	4328.9	4399.6	4353.5	4342.7	4244.3	4053.7	4070.6	3950.7	3943.0	3758.6
40°	4511.8	4514.9	4611.7	4633.2	4590.2	4415.0	4138.2	4272.0	4368.8	4378.1	4141.3
42.5°	4653.2	4694.7	4777.7	4951.4	4886.9	4594.8	4225.9	4371.9	4731.6	4788.5	4504.1
45°	4776.2	4860.8	4963.7	5119.0	5082.1	4850.0	4444.2	4577.9	5119.0	5268.1	4845.4
47.5°	4783.9	4894.6	5006.8	5237.4	5283.5	4986.8	4670.1	4903.8	5426.5	5587.9	5094.4
50°	4753.1	4811.6	5036.0	5286.6	5391.1	5209.7	4986.8	5177.4	5724.7	5826.1	5220.5
52.5°	4388.8	4433.4	4883.8	5332.7	5584.8	5461.8	5406.5	5558.7	6029.1	6104.4	5338.8
55°	3658.6	3650.9	4270.5	5100.6	5674.0	5835.4	5801.5	5855.3	6381.1	6448.7	5368.0
57.5°	2502.6	2642.5	3177.5	4247.4	5128.2	5747.7	5783.1	5693.9	5970.6	5996.8	4679.4
60°	1349.7	1408.1	1838.5	2834.7	3904.6	4684.0	4776.2	4614.8	4593.3	4519.5	3340.4
62.5°	536.5	565.7	810.1	1403.5	2127.5	2847.0	3045.3	2979.2	2837.7	2644.1	1729.4
65°	255.2	273.6	402.8	656.4	943.9	1186.7	1385.1	1446.5	1066.8	960.8	570.3
67.5°	173.7	187.5	293.6	375.1	336.7	352.0	458.1	425.8	250.6	213.7	158.3
70°	132.2	141.4	235.2	255.2	150.6	106.1	118.4	110.7	103.0	104.5	103.0
72.5°	93.8	101.5	172.2	150.6	66.1	49.2	63.0	75.3	75.3	75.3	73.8
75°	56.9	64.6	99.9	58.4	26.1	26.1	40.0	50.7	53.8	55.3	52.3
77.5°	29.2	36.9	33.8	16.9	16.9	20.0	29.2	35.4	38.4	38.4	36.9
80°	6.1	6.1	6.1	9.2	16.9	21.5	29.2	32.3	36.9	36.9	33.8
82.5°	0.0	1.5	4.6	9.2	15.4	20.0	27.7	32.3	36.9	38.4	35.4
85°	0.0	1.5	3.1	6.1	10.8	12.3	10.8	9.2	9.2	9.2	9.2
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6	2210.6
2.5°	2232.1	2236.7	2229.0	2227.5	2221.3	2239.8	2195.2	2184.4	2212.1	2186.0	2192.1
5°	2261.3	2272.0	2258.2	2235.1	2201.3	2149.1	2104.5	2046.1	2018.4	1998.4	1995.3
7.5°	2282.8	2290.5	2276.7	2202.9	2101.4	1969.2	1870.8	1798.6	1741.7	1724.8	1697.1
10°	2370.4	2372.0	2302.8	2139.8	1941.5	1767.8	1617.2	1506.5	1449.6	1414.3	1398.9
12.5°	2428.8	2425.8	2285.9	2015.3	1750.9	1520.3	1348.2	1214.4	1162.2	1145.2	1134.5
15°	2502.6	2485.7	2245.9	1887.7	1505.0	1255.9	1100.7	1008.4	1003.8	993.1	1003.8
17.5°	2561.0	2513.4	2187.5	1655.6	1269.8	1034.6	933.1	939.3	951.6	962.3	963.8
20°	2656.4	2558.0	2053.8	1452.7	1051.5	887.0	885.5	913.1	943.9	956.2	968.5
22.5°	2728.6	2576.4	1910.8	1235.9	873.2	827.0	853.2	894.7	917.7	930.0	948.5
25°	2754.7	2525.7	1720.2	1019.2	787.1	799.4	839.3	867.0	896.2	910.0	902.4
27.5°	2780.9	2499.6	1492.7	839.3	740.9	780.9	814.7	842.4	851.6	870.1	882.4
30°	2843.9	2408.9	1288.2	725.6	717.9	768.6	793.2	802.4	827.0	837.8	837.8
32.5°	2894.6	2373.5	1071.5	671.8	714.8	774.8	777.8	777.8	780.9	773.2	770.2
35°	2999.2	2252.1	877.8	639.5	713.3	776.3	784.0	757.9	687.1	659.5	651.8
37.5°	3128.3	2173.7	734.8	631.8	724.0	794.8	807.1	708.7	616.4	571.9	564.2
40°	3285.1	2118.3	641.0	628.7	748.6	837.8	800.9	670.2	550.3	485.8	482.7
42.5°	3468.0	2067.6	578.0	627.2	779.4	882.4	794.8	638.0	482.7	439.7	445.8
45°	3614.1	2039.9	535.0	616.4	790.1	908.5	799.4	581.1	455.0	427.4	430.4
47.5°	3727.8	1981.5	499.6	598.0	788.6	917.7	757.9	558.0	441.2	448.9	456.6
50°	3730.9	1903.1	455.0	558.0	765.5	900.8	710.2	536.5	438.1	470.4	485.8
52.5°	3689.4	1792.4	407.4	501.1	711.7	842.4	667.2	527.3	424.3	421.2	439.7
55°	3541.8	1584.9	327.4	405.8	601.1	694.8	628.7	510.4	382.8	347.4	350.5
57.5°	2862.3	1136.0	241.3	290.5	425.8	508.8	567.2	502.7	344.3	295.2	296.7
60°	1772.4	644.1	176.8	198.3	262.9	309.0	459.6	467.3	307.4	249.0	246.0
62.5°	910.0	318.2	136.8	139.9	161.4	181.4	315.1	392.0	278.2	236.7	236.7
65°	304.4	156.8	119.9	107.6	107.6	112.2	190.6	272.1	235.2	198.3	198.3
67.5°	130.7	116.8	104.5	93.8	86.1	81.5	107.6	158.3	175.2	150.6	144.5
70°	101.5	98.4	90.7	78.4	67.6	61.5	63.0	81.5	99.9	96.8	93.8
72.5°	75.3	75.3	72.3	61.5	52.3	44.6	41.5	43.0	47.7	49.2	50.7
75°	52.3	53.8	53.8	47.7	38.4	32.3	27.7	23.1	18.4	15.4	13.8
77.5°	35.4	36.9	40.0	35.4	29.2	21.5	16.9	12.3	7.7	3.1	3.1
80°	30.7	35.4	38.4	35.4	30.7	23.1	16.9	9.2	4.6	0.0	0.0
82.5°	32.3	35.4	40.0	33.8	29.2	21.5	16.9	10.8	4.6	1.5	0.0
85°	7.7	7.7	9.2	10.8	13.8	15.4	12.3	7.7	4.6	1.5	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	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)