

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: P528167

Luminaire Tested: **GALN-SA3B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528167
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-SA3B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 8639 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

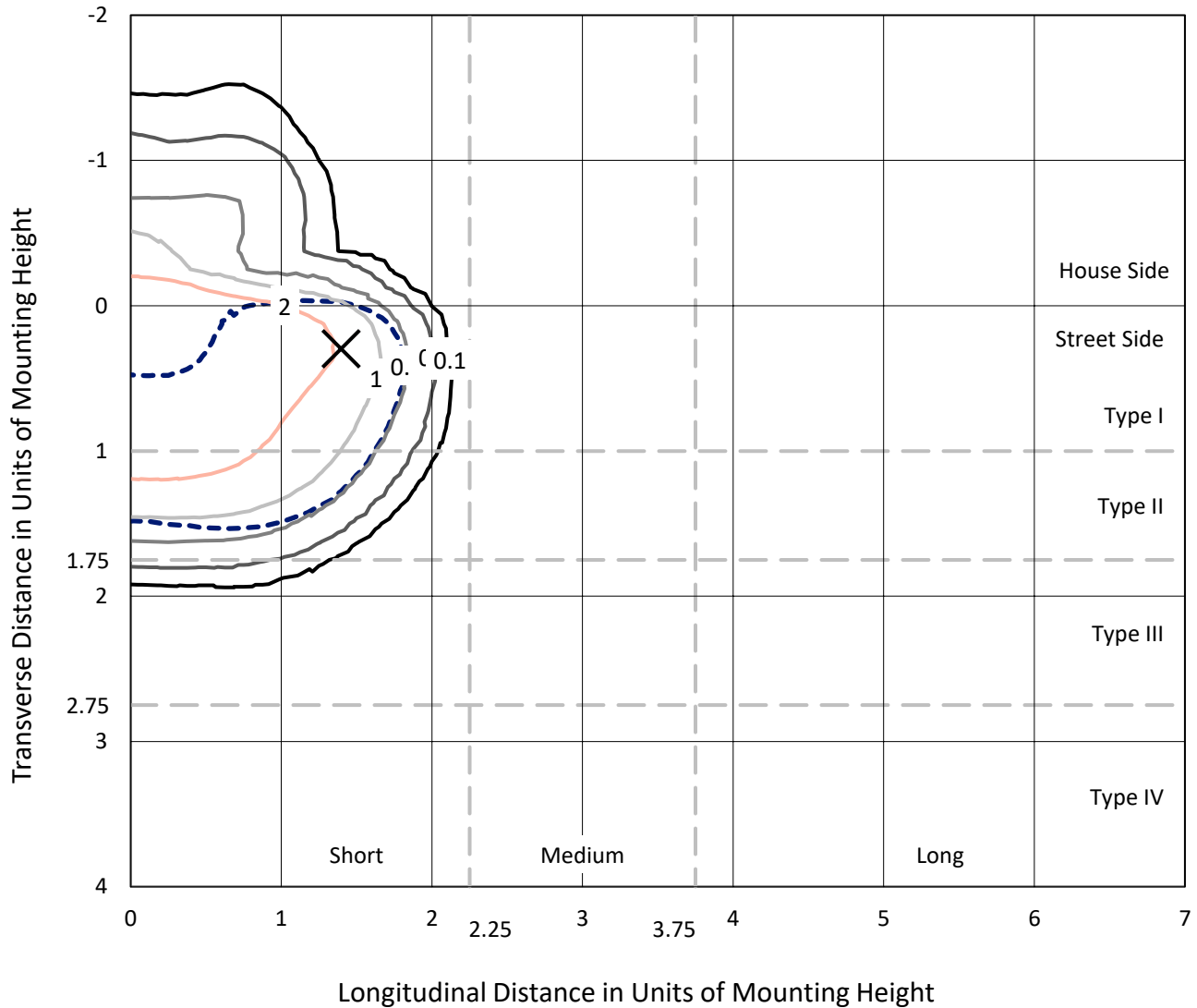
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

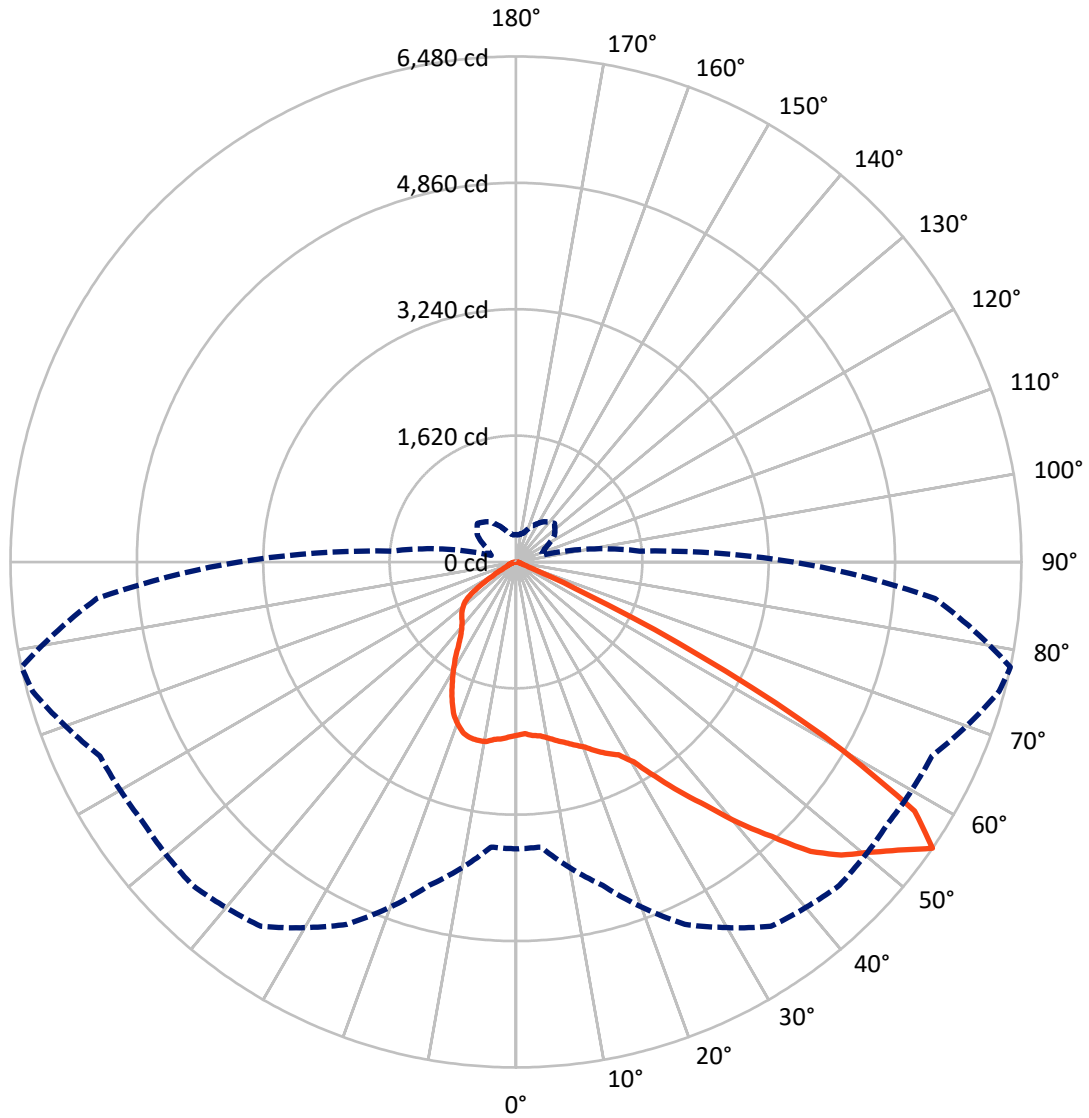
✕ Max cd
 - - - 1/2 Max cd



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	1604.6	0.0	1604.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7034.4	0.0	7034.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	8639.0	0.0	8639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	2.3
10°-20°	524.1	6.1
20°-30°	918.7	10.6
30°-40°	1514.9	17.5
40°-50°	2204.3	25.5
50°-60°	2497.7	28.9
60°-70°	714.2	8.3
70°-80°	55.5	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°	8639.0	100.0
0°-180°	8639.0	100.0

Coefficient of Utilization



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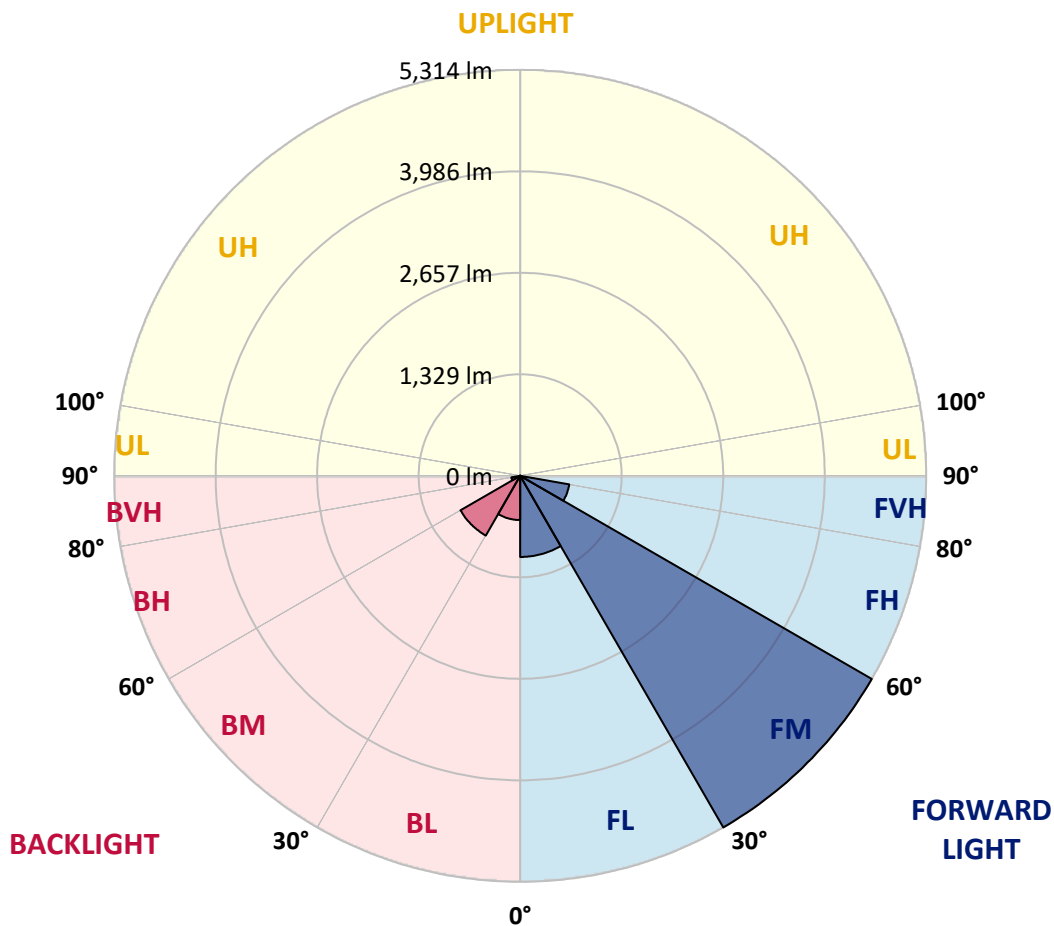
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.0	12.3			
FM (30°-60°)	5314.3	61.5			
FH (60°-80°)	652.5	7.6			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	578.9	6.7	B2/1000		
BM (30°-60°)	902.6	10.4	B1/1000		
BH (60°-80°)	117.1	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°	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1
2.5°	2088.3	2108.3	2111.4	2136.1	2134.6	2176.3	2188.7	2190.2	2218.0	2204.1	2239.6
5°	2029.6	2018.8	2014.1	2057.4	2069.7	2106.8	2137.7	2156.2	2213.4	2233.4	2270.5
7.5°	1977.0	1977.0	1980.1	2018.8	2014.1	2062.0	2094.4	2151.6	2235.0	2252.0	2296.8
10°	1926.1	1907.5	1930.7	1970.9	2004.9	2026.5	2094.4	2148.5	2245.8	2295.2	2357.0
12.5°	1899.8	1909.1	1912.2	1941.5	1978.6	2043.5	2080.5	2170.1	2323.0	2352.4	2418.8
15°	2065.1	2046.6	2001.8	1975.5	2006.4	2037.3	2130.0	2221.1	2363.2	2404.9	2479.0
17.5°	2256.6	2241.2	2204.1	2133.1	2063.5	2120.7	2193.3	2276.7	2406.4	2468.2	2577.9
20°	2506.8	2482.1	2445.1	2306.0	2245.8	2184.0	2261.3	2360.1	2477.5	2533.1	2645.8
22.5°	2804.9	2804.9	2721.5	2553.2	2428.1	2369.4	2401.8	2459.0	2556.3	2631.9	2743.2
25°	3115.4	3106.1	3030.4	2855.9	2644.3	2574.8	2611.9	2652.0	2678.3	2720.0	2794.1
27.5°	3470.6	3416.6	3320.8	3127.8	2940.9	2806.5	2846.6	2811.1	2778.7	2800.3	2906.9
30°	3711.6	3745.6	3623.6	3438.2	3262.1	3112.3	3120.0	3089.1	2940.9	2971.8	3035.1
32.5°	3961.8	3983.4	3915.5	3813.5	3637.5	3462.9	3399.6	3373.3	3262.1	3276.0	3214.3
35°	4170.3	4212.0	4151.8	4107.0	4056.0	3915.5	3740.9	3825.9	3646.7	3612.7	3452.1
37.5°	4361.9	4349.5	4420.6	4374.2	4363.4	4264.6	4073.0	4090.0	3969.5	3961.8	3776.5
40°	4533.3	4536.4	4633.7	4655.3	4612.1	4436.0	4158.0	4292.4	4389.7	4398.9	4161.1
42.5°	4675.4	4717.1	4800.5	4975.1	4910.2	4616.7	4246.0	4392.8	4754.2	4811.3	4525.6
45°	4799.0	4883.9	4987.4	5143.4	5106.3	4873.1	4465.4	4599.7	5143.4	5293.2	4868.5
47.5°	4806.7	4917.9	5030.7	5262.4	5308.7	5010.6	4692.4	4927.2	5452.3	5614.5	5118.7
50°	4775.8	4834.5	5060.0	5311.8	5416.8	5234.5	5010.6	5202.1	5752.0	5853.9	5245.4
52.5°	4409.7	4454.5	4907.1	5358.1	5611.4	5487.9	5432.3	5585.2	6057.8	6133.5	5364.3
55°	3676.1	3668.4	4290.8	5124.9	5701.0	5863.2	5829.2	5883.3	6411.5	6479.5	5393.6
57.5°	2514.6	2655.1	3192.6	4267.6	5152.7	5775.1	5810.7	5721.1	5999.1	6025.4	4701.7
60°	1356.1	1414.8	1847.3	2848.2	3923.2	4706.3	4799.0	4636.8	4615.2	4541.0	3356.4
62.5°	539.1	568.4	814.0	1410.2	2137.7	2860.5	3059.8	2993.4	2851.3	2656.7	1737.6
65°	256.4	274.9	404.7	659.5	948.4	1192.4	1391.7	1453.4	1071.9	965.4	573.0
67.5°	174.5	188.4	295.0	376.9	338.3	353.7	460.3	427.8	251.8	214.7	159.1
70°	132.8	142.1	236.3	256.4	151.4	106.6	118.9	111.2	103.5	105.0	103.5
72.5°	94.2	101.9	173.0	151.4	66.4	49.4	63.3	75.7	75.7	75.7	74.1
75°	57.1	64.9	100.4	58.7	26.3	26.3	40.2	51.0	54.1	55.6	52.5
77.5°	29.3	37.1	34.0	17.0	17.0	20.1	29.3	35.5	38.6	38.6	37.1
80°	6.2	6.2	6.2	9.3	17.0	21.6	29.3	32.4	37.1	37.1	34.0
82.5°	0.0	1.5	4.6	9.3	15.4	20.1	27.8	32.4	37.1	38.6	35.5
85°	0.0	1.5	3.1	6.2	10.8	12.4	10.8	9.3	9.3	9.3	9.3
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°	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1	2221.1
2.5°	2242.7	2247.3	2239.6	2238.1	2231.9	2250.4	2205.6	2194.8	2222.6	2196.4	2202.6
5°	2272.1	2282.9	2269.0	2245.8	2211.8	2159.3	2114.5	2055.8	2028.0	2007.9	2004.9
7.5°	2293.7	2301.4	2287.5	2213.4	2111.4	1978.6	1879.7	1807.1	1750.0	1733.0	1705.2
10°	2381.7	2383.3	2313.8	2150.0	1950.8	1776.3	1624.9	1513.7	1456.5	1421.0	1405.6
12.5°	2440.4	2437.3	2296.8	2024.9	1759.3	1527.6	1354.6	1220.2	1167.7	1150.7	1139.9
15°	2514.6	2497.6	2256.6	1896.7	1512.1	1261.9	1105.9	1013.2	1008.6	997.8	1008.6
17.5°	2573.3	2525.4	2197.9	1663.5	1275.8	1039.5	937.6	943.7	956.1	966.9	968.4
20°	2669.0	2570.2	2063.5	1459.6	1056.5	891.2	889.7	917.5	948.4	960.7	973.1
22.5°	2741.6	2588.7	1919.9	1241.8	877.3	831.0	857.2	898.9	922.1	934.5	953.0
25°	2767.9	2537.7	1728.4	1024.1	790.8	803.2	843.3	871.1	900.5	914.4	906.7
27.5°	2794.1	2511.5	1499.8	843.3	744.5	784.6	818.6	846.4	855.7	874.2	886.6
30°	2857.5	2420.3	1294.3	729.0	721.3	772.3	797.0	806.3	831.0	841.8	841.8
32.5°	2908.4	2384.8	1076.6	675.0	718.2	778.5	781.6	781.6	784.6	776.9	773.8
35°	3013.5	2262.8	881.9	642.5	716.7	780.0	787.7	761.5	690.4	662.6	654.9
37.5°	3143.2	2184.0	738.3	634.8	727.5	798.5	810.9	712.0	619.4	574.6	566.9
40°	3300.7	2128.4	644.1	631.7	752.2	841.8	804.7	673.4	553.0	488.1	485.0
42.5°	3484.6	2077.4	580.8	630.2	783.1	886.6	798.5	641.0	485.0	441.7	447.9
45°	3631.3	2049.6	537.5	619.4	793.9	912.8	803.2	583.8	457.2	429.4	432.5
47.5°	3745.6	1991.0	502.0	600.8	792.4	922.1	761.5	560.7	443.3	451.0	458.7
50°	3748.7	1912.2	457.2	560.7	769.2	905.1	713.6	539.1	440.2	472.6	488.1
52.5°	3707.0	1801.0	409.3	503.5	715.1	846.4	670.3	529.8	426.3	423.2	441.7
55°	3558.7	1592.5	329.0	407.8	603.9	698.1	631.7	512.8	384.6	349.1	352.2
57.5°	2876.0	1141.4	242.5	291.9	427.8	511.3	569.9	505.1	346.0	296.6	298.1
60°	1780.9	647.2	177.6	199.2	264.1	310.5	461.8	469.5	308.9	250.2	247.1
62.5°	914.4	319.7	137.5	140.6	162.2	182.3	316.6	393.9	279.6	237.9	237.9
65°	305.8	157.5	120.5	108.1	108.1	112.8	191.5	273.4	236.3	199.2	199.2
67.5°	131.3	117.4	105.0	94.2	86.5	81.9	108.1	159.1	176.1	151.4	145.2
70°	101.9	98.9	91.1	78.8	68.0	61.8	63.3	81.9	100.4	97.3	94.2
72.5°	75.7	75.7	72.6	61.8	52.5	44.8	41.7	43.2	47.9	49.4	51.0
75°	52.5	54.1	54.1	47.9	38.6	32.4	27.8	23.2	18.5	15.4	13.9
77.5°	35.5	37.1	40.2	35.5	29.3	21.6	17.0	12.4	7.7	3.1	3.1
80°	30.9	35.5	38.6	35.5	30.9	23.2	17.0	9.3	4.6	0.0	0.0
82.5°	32.4	35.5	40.2	34.0	29.3	21.6	17.0	10.8	4.6	1.5	0.0
85°	7.7	7.7	9.3	10.8	13.9	15.4	12.4	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)