

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: P530193

Luminaire Tested: **GALN-SA5B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12509 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

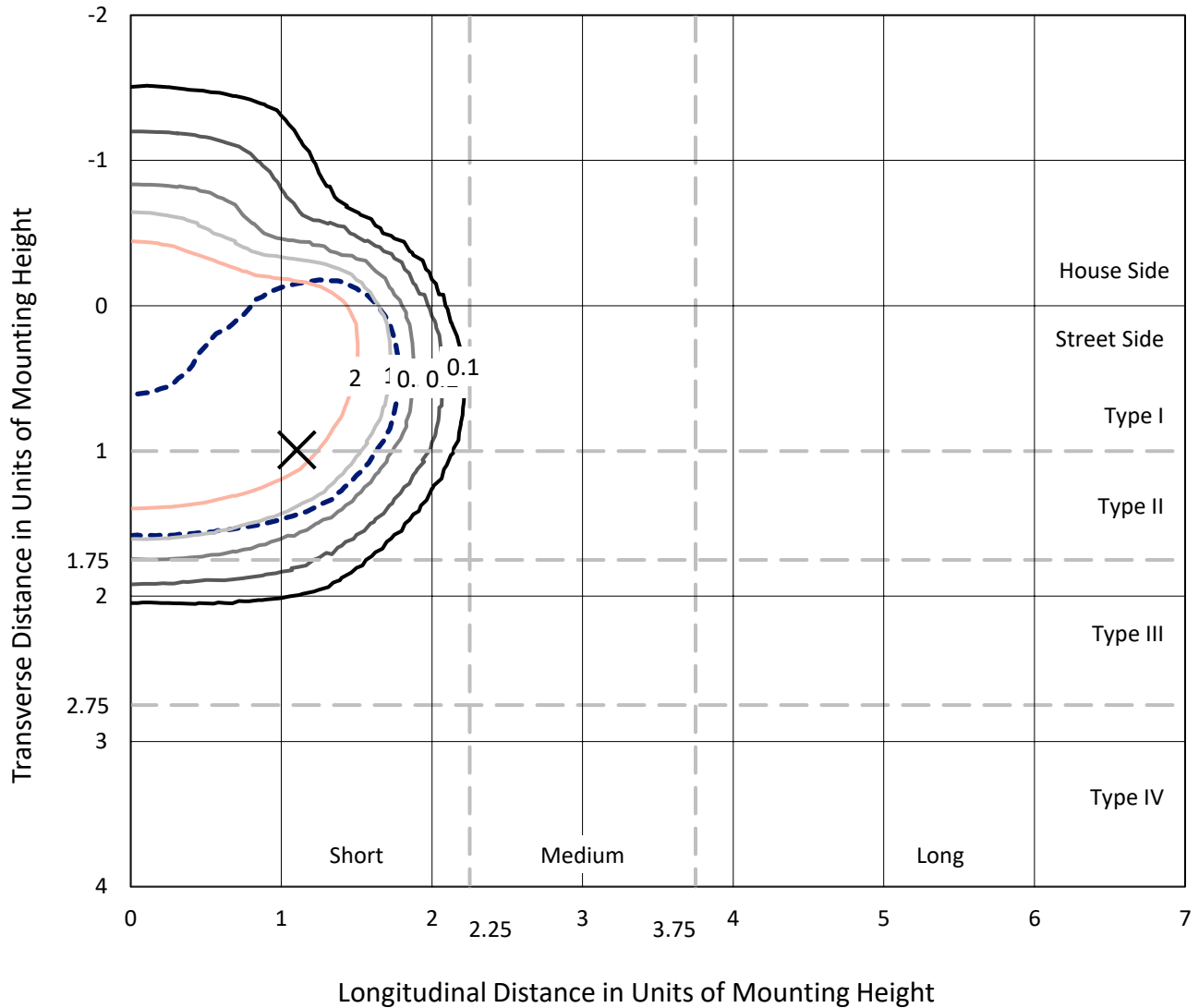
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

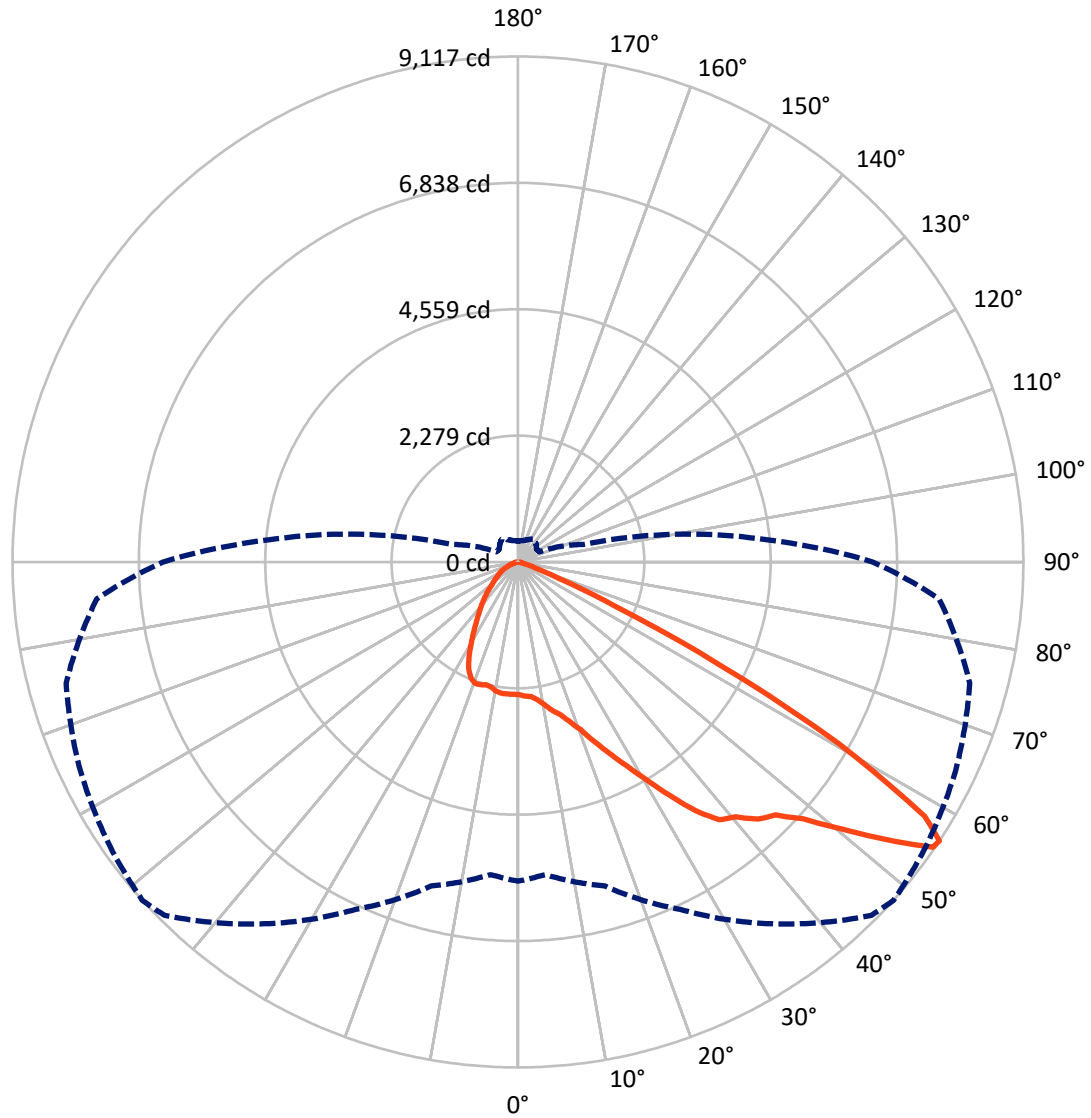
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2720.5	0.0	2720.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9788.5	0.0	9788.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	12509.0	0.0	12509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.9
10°-20°	743.8	5.9
20°-30°	1349.1	10.8
30°-40°	2119.1	16.9
40°-50°	3091.4	24.7
50°-60°	3724.6	29.8
60°-70°	1090.5	8.7
70°-80°	138.3	1.1
80°-90°	19.4	0.2
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°	12509.0	100.0
0°-180°	12509.0	100.0

Coefficient of Utilization

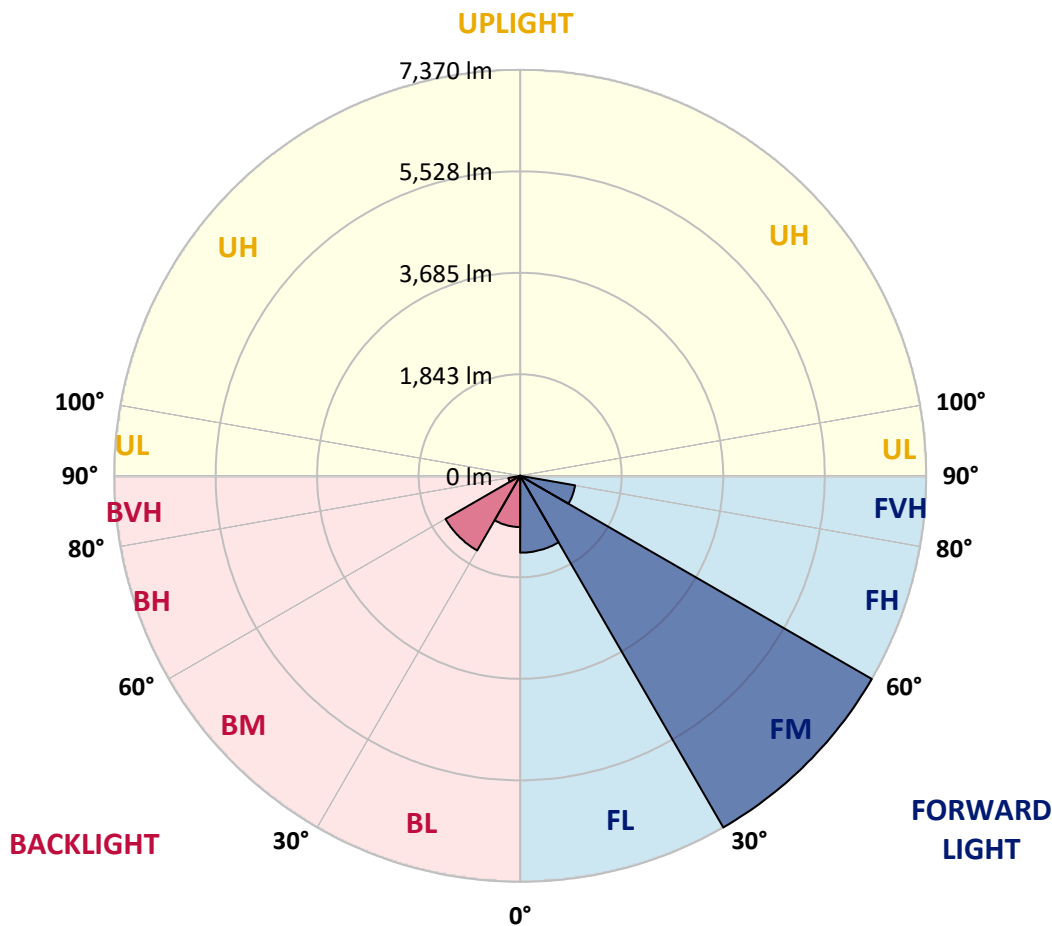


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.8	11.2			
FM (30°-60°)	7370.3	58.9			
FH (60°-80°)	1012.7	8.1			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	929.8	7.4	B2/1000		
BM (30°-60°)	1564.8	12.5	B2/2500		
BH (60°-80°)	216.2	1.7	B1/500		G1/500
BVH (80°-90°)	9.7	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°	48°	55°	65°	75°	85°
0°	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2
2.5°	2432.5	2421.1	2421.1	2402.9	2423.4	2414.3	2421.1	2398.3	2421.1	2386.9	2414.3
5°	2443.9	2446.2	2437.1	2448.4	2448.4	2462.1	2439.3	2459.8	2471.2	2446.2	2434.8
7.5°	2503.1	2507.7	2505.4	2496.3	2514.5	2512.2	2509.9	2494.0	2498.6	2489.4	2475.8
10°	2619.3	2617.0	2628.4	2605.6	2591.9	2607.9	2612.4	2587.4	2569.2	2562.3	2519.0
12.5°	2787.8	2760.5	2744.5	2721.8	2728.6	2705.8	2746.8	2703.5	2694.4	2653.4	2610.2
15°	2924.5	2919.9	2922.2	2885.7	2844.7	2853.9	2853.9	2831.1	2817.4	2767.3	2705.8
17.5°	3204.6	3109.0	3129.5	3083.9	3049.7	3047.5	3027.0	3031.5	2995.1	2890.3	2796.9
20°	3423.3	3382.3	3350.4	3272.9	3220.6	3236.5	3227.4	3204.6	3193.2	3056.6	2924.5
22.5°	3619.1	3632.8	3580.4	3559.9	3487.0	3493.9	3512.1	3491.6	3405.0	3263.8	3068.0
25°	3894.7	3878.8	3808.2	3783.1	3714.8	3739.9	3810.5	3794.5	3739.9	3484.8	3179.6
27.5°	4220.4	4165.8	4179.4	4065.6	3999.5	4070.1	4154.4	4234.1	4079.2	3744.4	3311.7
30°	4450.5	4393.5	4389.0	4384.4	4368.5	4450.5	4548.4	4621.3	4496.0	4004.1	3530.3
32.5°	4564.4	4578.0	4616.7	4603.1	4742.0	4910.6	5013.0	5117.8	4960.7	4427.7	3819.6
35°	4867.3	4780.7	4867.3	4876.4	5019.9	5377.5	5507.3	5757.8	5719.1	5026.7	4172.6
37.5°	5044.9	5038.1	5049.5	5136.0	5275.0	5716.8	5901.3	6094.9	6022.0	5386.6	4612.2
40°	5338.7	5357.0	5354.7	5420.7	5573.3	5971.9	6047.1	6204.2	6211.1	5885.4	5259.0
42.5°	5810.2	5737.3	5689.5	5757.8	5971.9	6192.9	6343.2	6311.3	6536.8	6491.2	6090.4
45°	6233.8	6277.1	6206.5	6320.4	6397.8	6516.3	6511.7	6580.0	6867.0	7083.4	6716.7
47.5°	6630.2	6657.5	6691.7	6769.1	6937.6	6955.9	6917.1	6887.5	7283.8	7507.0	7201.8
50°	6867.0	6892.1	7051.5	7190.4	7504.8	7545.8	7568.5	7493.4	7762.1	7787.2	7659.6
52.5°	6803.3	6830.6	7053.8	7511.6	8012.7	8388.5	8320.1	8192.6	8176.7	8274.6	8083.3
55°	6238.4	6213.4	6520.8	7233.7	8172.1	9074.0	9083.2	8948.8	8691.4	8625.4	8019.5
56°	5757.8	5659.9	6051.6	6912.6	7967.1	9014.8	9117.3	8973.8	8732.4	8436.3	7625.5
57.5°	4717.0	4810.3	5199.8	5912.7	7258.8	8588.9	8648.1	8614.0	8431.8	7935.2	6709.9
60°	2601.0	2765.0	3109.0	3981.3	5167.9	6591.4	6639.3	6917.1	6951.3	6076.7	4616.7
62.5°	1104.6	1086.4	1444.0	2086.3	2942.7	3979.0	4067.8	4352.5	4404.9	3503.0	2316.3
65°	448.7	473.7	653.7	1050.0	1555.6	1813.0	1938.3	2031.6	2204.7	1446.3	854.1
67.5°	296.1	293.8	384.9	599.0	838.2	808.6	808.6	854.1	790.3	589.9	369.0
70°	211.8	218.7	275.6	414.5	521.6	387.2	371.3	355.3	403.1	389.5	298.4
72.5°	138.9	148.0	184.5	248.3	271.0	211.8	211.8	255.1	332.5	314.3	243.7
75°	91.1	93.4	113.9	143.5	134.4	109.3	120.7	170.8	241.4	232.3	173.1
77.5°	61.5	63.8	77.4	93.4	75.2	61.5	66.1	86.5	118.4	118.4	91.1
80°	22.8	25.1	31.9	29.6	34.2	43.3	47.8	59.2	70.6	70.6	61.5
82.5°	0.0	2.3	6.8	15.9	25.1	34.2	38.7	45.6	52.4	59.2	56.9
85°	0.0	2.3	6.8	11.4	18.2	20.5	22.8	15.9	13.7	13.7	11.4
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	2.3	2.3
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°	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2	2389.2
2.5°	2389.2	2386.9	2386.9	2380.1	2393.8	2386.9	2391.5	2389.2	2359.6	2382.4	2366.4
5°	2414.3	2430.2	2405.2	2400.6	2382.4	2389.2	2389.2	2366.4	2386.9	2384.7	2380.1
7.5°	2478.1	2450.7	2423.4	2396.1	2391.5	2384.7	2359.6	2350.5	2366.4	2348.2	2375.6
10°	2505.4	2509.9	2468.9	2432.5	2398.3	2350.5	2316.3	2295.8	2270.8	2298.1	2314.1
12.5°	2630.7	2585.1	2514.5	2457.6	2341.4	2293.6	2259.4	2250.3	2293.6	2302.7	2286.7
15°	2673.9	2667.1	2576.0	2448.4	2327.7	2270.8	2277.6	2259.4	2264.0	2241.2	2245.7
17.5°	2762.8	2685.3	2578.3	2418.8	2325.5	2311.8	2270.8	2197.9	2156.9	2138.7	2154.6
20°	2860.7	2785.5	2630.7	2430.2	2345.9	2309.5	2175.1	2086.3	2002.0	1956.5	1958.8
22.5°	2947.2	2853.9	2607.9	2434.8	2364.2	2213.8	2052.1	1876.8	1772.0	1701.4	1703.7
25°	3052.0	2919.9	2617.0	2443.9	2316.3	2061.2	1828.9	1658.1	1532.8	1485.0	1501.0
27.5°	3111.2	2960.9	2667.1	2464.4	2191.1	1844.9	1594.3	1434.9	1362.0	1339.2	1337.0
30°	3288.9	3052.0	2728.6	2423.4	1981.5	1612.6	1380.2	1282.3	1211.7	1191.2	1195.8
32.5°	3553.1	3218.3	2808.3	2316.3	1767.4	1405.3	1241.3	1168.4	1102.4	1063.6	1059.1
35°	3774.0	3503.0	2892.6	2150.1	1519.2	1245.9	1143.4	1052.3	952.0	908.8	897.4
37.5°	4195.4	3824.1	2874.4	1899.5	1282.3	1127.4	1038.6	927.0	840.4	781.2	774.4
40°	4755.7	4199.9	2785.5	1594.3	1106.9	1022.7	927.0	819.9	712.9	662.8	658.2
42.5°	5436.7	4660.0	2623.8	1284.6	931.5	917.9	831.3	708.3	612.7	576.2	578.5
45°	5990.1	5054.0	2459.8	1031.8	801.7	815.4	740.2	624.1	558.0	528.4	528.4
47.5°	6482.1	5320.5	2282.2	851.8	681.0	712.9	646.8	578.5	521.6	498.8	494.2
50°	6955.9	5591.6	2104.5	690.1	580.8	612.7	605.8	551.2	505.6	478.3	480.6
52.5°	7251.9	5634.8	1879.0	564.9	507.9	544.4	567.1	517.0	466.9	451.0	446.4
55°	6889.8	5076.8	1457.7	464.6	430.5	478.3	521.6	464.6	425.9	398.6	396.3
56°	6402.4	4539.3	1218.5	428.2	407.7	460.1	505.6	444.1	400.9	384.9	373.5
57.5°	5420.7	3714.8	899.7	380.4	378.1	428.2	480.6	423.6	373.5	359.9	359.9
60°	3380.0	2090.9	544.4	318.9	328.0	380.4	432.7	378.1	332.5	332.5	339.4
62.5°	1539.7	870.1	330.3	271.0	282.4	328.0	384.9	341.6	316.6	341.6	346.2
65°	523.9	375.8	239.2	216.4	223.2	271.0	330.3	346.2	343.9	359.9	369.0
67.5°	293.8	241.4	200.4	179.9	175.4	200.4	271.0	346.2	332.5	325.7	330.3
70°	248.3	205.0	177.7	159.4	152.6	161.7	209.5	261.9	234.6	227.8	223.2
72.5°	200.4	170.8	154.9	143.5	123.0	104.8	95.7	100.2	111.6	118.4	129.8
75°	141.2	129.8	129.8	116.2	88.8	66.1	52.4	43.3	29.6	20.5	22.8
77.5°	79.7	79.7	82.0	70.6	56.9	43.3	31.9	22.8	11.4	4.6	2.3
80°	54.7	59.2	63.8	56.9	47.8	38.7	27.3	15.9	6.8	0.0	0.0
82.5°	54.7	61.5	66.1	56.9	47.8	36.4	27.3	15.9	6.8	2.3	0.0
85°	11.4	13.7	15.9	18.2	27.3	27.3	20.5	13.7	6.8	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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)