

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: P531907

Luminaire Tested: **GALN-SA7B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21922 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

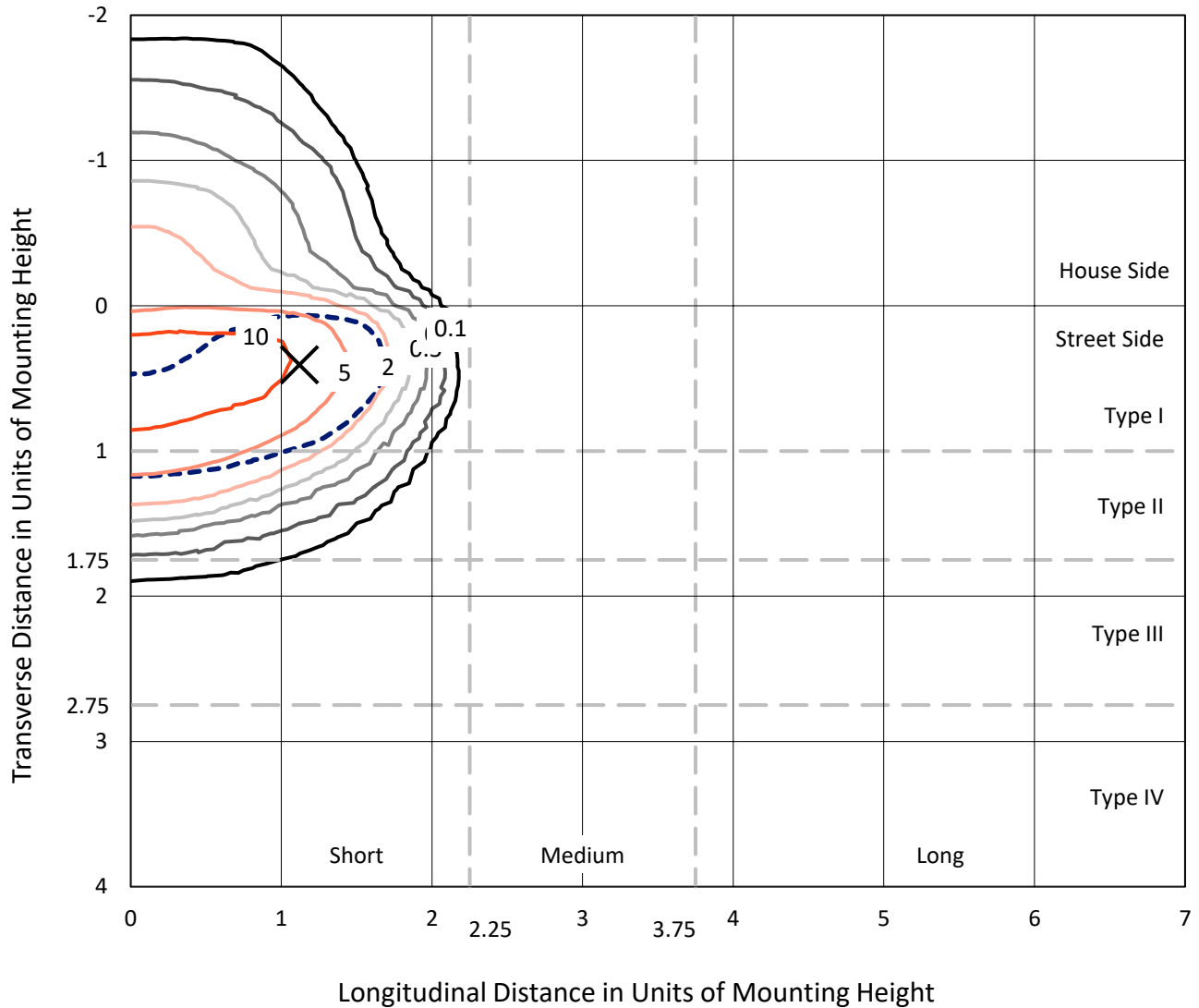
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

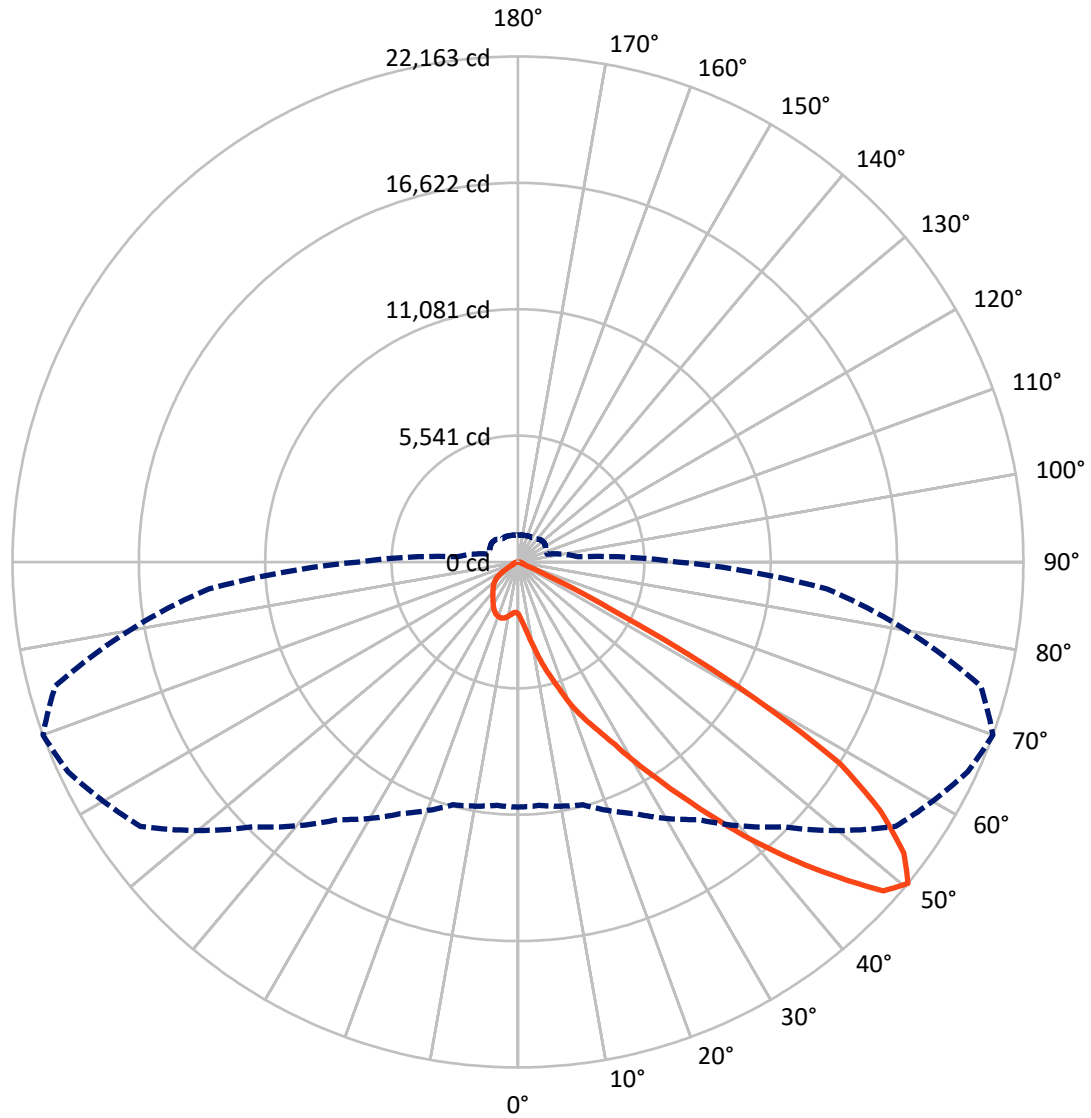
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.5	0.0	3061.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18860.4	0.0	18860.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	21922.0	0.0	21922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.3
10°-20°	1277.2	5.8
20°-30°	2679.4	12.2
30°-40°	4618.5	21.1
40°-50°	6749.8	30.8
50°-60°	5257.0	24.0
60°-70°	890.7	4.1
70°-80°	122.4	0.6
80°-90°	31.7	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°	21922.0	100.0
0°-180°	21922.0	100.0

Coefficient of Utilization



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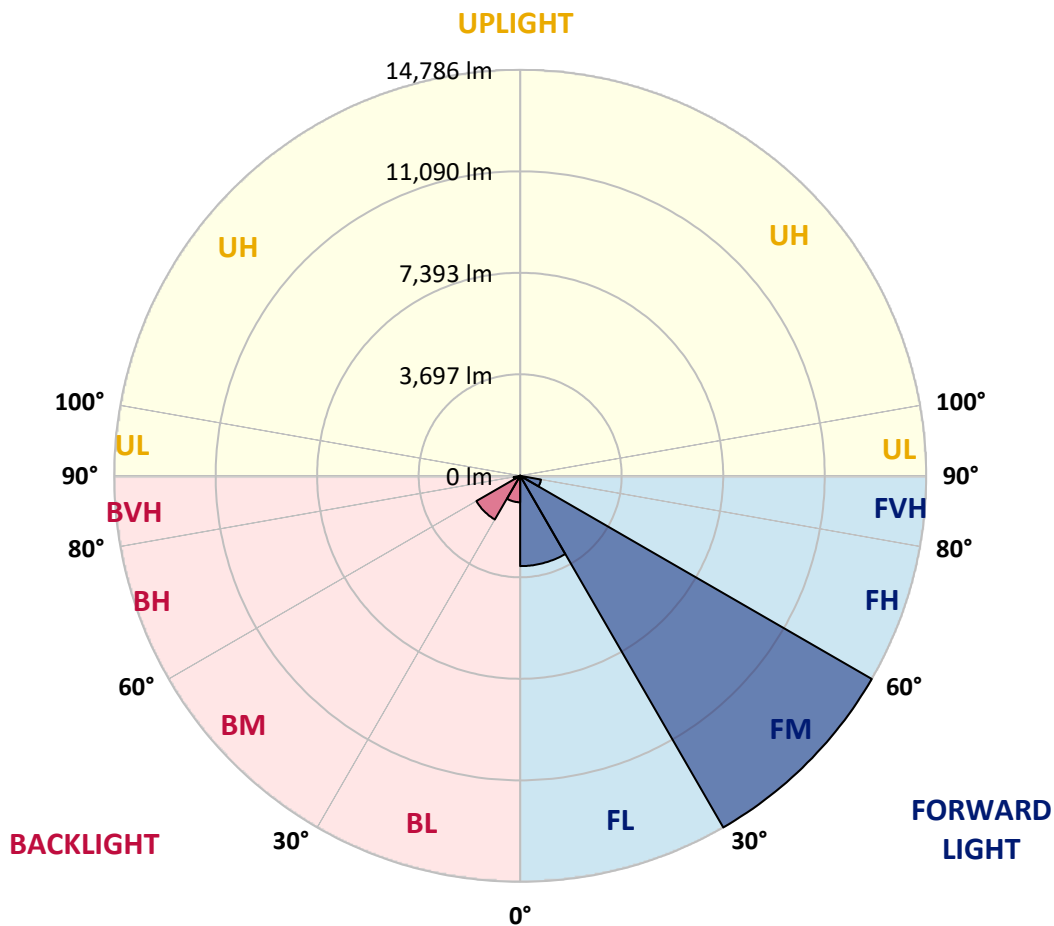
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.6	15.0			
FM (30°-60°)	14786.0	67.4			
FH (60°-80°)	771.2	3.5			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	963.4	4.4	B2/1000		
BM (30°-60°)	1839.3	8.4	B2/2500		
BH (60°-80°)	241.8	1.1	B1/500		G1/500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7
2.5°	2973.5	2951.9	2905.0	2818.5	2782.5	2696.0	2645.5	2548.2	2486.9	2418.5	2342.8
5°	4188.2	4076.4	4007.9	3910.6	3625.9	3449.3	3157.3	2908.6	2793.3	2667.2	2494.2
7.5°	5442.4	5370.4	5276.6	5067.6	4873.0	4505.3	4004.3	3456.5	3222.2	3006.0	2663.6
10°	6480.5	6278.6	6267.8	6112.8	5900.2	5460.5	4858.6	4177.3	3759.2	3442.1	2905.0
12.5°	7204.9	7021.1	7104.0	7086.0	6887.8	6484.1	5788.5	4887.4	4451.3	3957.5	3153.7
15°	7864.5	7788.8	7763.6	7742.0	7662.7	7363.5	6740.0	5752.4	5121.7	4527.0	3434.9
17.5°	8509.7	8315.0	8408.8	8426.8	8419.6	8149.2	7565.4	6574.2	5831.7	5128.9	3730.4
20°	9082.8	9100.8	8974.6	8949.4	8927.8	8917.0	8347.5	7388.7	6703.9	5759.6	4116.1
22.5°	9818.0	9691.9	9803.6	9731.5	9591.0	9504.4	9068.3	8109.6	7460.8	6520.1	4508.9
25°	10686.6	10787.6	10524.5	10495.6	10340.6	10041.5	9648.6	8917.0	8188.9	7226.6	4934.2
27.5°	11757.1	11580.5	11512.0	11353.4	11072.3	10946.2	10484.8	9749.5	9068.3	7969.0	5345.1
30°	12676.2	12629.3	12286.9	12099.5	11854.4	11850.8	11205.7	10877.7	10214.5	9133.2	5911.0
32.5°	13425.9	13220.4	13094.3	12964.5	12766.3	12820.4	12276.1	12103.1	11436.3	10214.5	6577.8
35°	13926.9	13779.1	13703.4	13505.2	13447.5	13689.0	13461.9	13389.8	12842.0	11735.5	7359.9
37.5°	14085.5	14132.3	14117.9	13869.2	13991.8	14644.1	14936.1	14748.7	14460.3	13339.4	8206.9
40°	14226.0	14258.5	14186.4	14478.3	14827.9	15570.4	16626.5	16316.5	16208.4	14964.9	9385.5
42.5°	14305.3	14280.1	14280.1	14784.7	15314.5	16806.7	18259.2	18053.8	17970.9	16695.0	10747.9
45°	13962.9	13717.8	13980.9	14665.8	15732.6	17415.8	19564.0	19848.7	19729.8	18753.0	12341.0
47.5°	12683.4	12834.8	12982.6	13898.0	15224.4	17228.4	20364.1	21333.6	21553.5	20483.0	13386.2
50°	10747.9	10715.5	11021.8	12175.2	13786.3	16421.0	20209.1	21762.6	22162.6	21002.1	13606.1
52.5°	7817.7	8055.5	8387.1	9533.3	11443.5	14330.6	18208.8	20656.0	21189.5	20364.1	13461.9
55°	4552.2	4289.1	5035.2	6004.7	7806.8	10809.2	15393.8	18309.7	19297.2	19203.5	12733.9
57.5°	1823.8	1766.1	2022.0	2724.8	4072.8	6700.3	11194.8	15044.2	16626.5	17588.8	11191.2
60°	800.1	782.1	919.1	1110.1	1665.2	3088.9	6123.6	9356.7	11007.4	12290.5	7702.3
62.5°	576.7	569.5	638.0	706.4	879.4	1344.4	2573.4	3770.1	4700.0	5676.7	3449.3
65°	465.0	483.0	529.8	565.9	648.8	746.1	908.3	1048.8	1286.7	1333.6	760.5
67.5°	378.4	392.9	436.1	475.8	490.2	403.7	418.1	367.6	367.6	328.0	263.1
70°	277.5	281.1	331.6	378.4	302.8	162.2	284.7	284.7	255.9	245.1	223.5
72.5°	205.4	209.0	248.7	234.3	118.9	100.9	209.0	230.7	209.0	198.2	180.2
75°	151.4	155.0	129.8	54.1	50.5	64.9	122.5	158.6	151.4	147.8	137.0
77.5°	28.8	21.6	18.0	25.2	36.0	54.1	79.3	97.3	100.9	108.1	100.9
80°	3.6	3.6	10.8	21.6	39.6	57.7	82.9	93.7	97.3	100.9	93.7
82.5°	0.0	3.6	10.8	21.6	39.6	54.1	72.1	82.9	90.1	93.7	90.1
85°	0.0	3.6	7.2	18.0	32.4	39.6	36.0	25.2	21.6	25.2	18.0
87.5°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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°	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7	2270.7
2.5°	2299.5	2285.1	2234.6	2180.6	2133.7	2155.4	2133.7	2115.7	2122.9	2115.7	2108.5
5°	2425.7	2360.8	2252.7	2205.8	2166.2	2162.6	2151.7	2148.1	2151.7	2151.7	2119.3
7.5°	2544.6	2440.1	2324.8	2274.3	2227.4	2231.0	2205.8	2205.8	2202.2	2184.2	2177.0
10°	2724.8	2584.3	2436.5	2346.4	2288.7	2277.9	2252.7	2227.4	2227.4	2227.4	2191.4
12.5°	2923.1	2746.5	2544.6	2440.1	2371.6	2317.5	2277.9	2270.7	2231.0	2223.8	2205.8
15°	3096.1	2872.6	2616.7	2472.5	2386.0	2313.9	2252.7	2213.0	2195.0	2184.2	2169.8
17.5°	3265.5	2980.7	2656.3	2472.5	2378.8	2295.9	2231.0	2195.0	2151.7	2159.0	2130.1
20°	3492.5	3096.1	2667.2	2425.7	2310.3	2231.0	2144.5	2126.5	2101.3	2079.7	2086.9
22.5°	3712.4	3179.0	2634.7	2368.0	2202.2	2108.5	2065.2	2043.6	2032.8	2014.8	1989.6
25°	3910.6	3269.1	2584.3	2263.5	2086.9	2018.4	1978.7	1975.1	1949.9	1949.9	1903.1
27.5°	4112.5	3301.5	2497.8	2140.9	1986.0	1946.3	1928.3	1921.1	1910.3	1885.0	1852.6
30°	4343.1	3312.3	2371.6	2014.8	1895.8	1852.6	1877.8	1895.8	1849.0	1802.1	1816.6
32.5°	4534.2	3287.1	2220.2	1895.8	1831.0	1809.3	1859.8	1877.8	1823.8	1773.3	1748.1
35°	4764.8	3225.8	2072.5	1802.1	1766.1	1809.3	1852.6	1852.6	1744.5	1683.2	1668.8
37.5°	5114.5	3157.3	1935.5	1722.8	1697.6	1787.7	1845.4	1805.7	1636.3	1560.6	1542.6
40°	5489.3	3114.1	1802.1	1643.5	1661.6	1751.7	1784.1	1661.6	1488.6	1441.7	1427.3
42.5°	6033.5	3027.6	1683.2	1575.1	1629.1	1701.2	1701.2	1481.4	1416.5	1391.2	1387.6
45°	6711.1	2966.3	1578.7	1517.4	1582.3	1600.3	1542.6	1387.6	1340.8	1333.6	1337.2
47.5°	7042.7	2847.4	1470.5	1448.9	1495.8	1499.4	1348.0	1312.0	1272.3	1261.5	1254.3
50°	6992.3	2634.7	1330.0	1358.8	1423.7	1387.6	1229.1	1236.3	1200.2	1196.6	1178.6
52.5°	6639.1	2299.5	1189.4	1257.9	1330.0	1225.5	1131.7	1124.5	1124.5	1077.7	1059.7
55°	5885.8	1852.6	1020.0	1106.5	1193.0	1030.8	1005.6	998.4	980.4	937.1	926.3
57.5°	4660.3	1358.8	767.7	861.4	1012.8	875.8	872.2	839.8	792.9	760.5	760.5
60°	2771.7	782.1	483.0	526.2	670.4	710.0	789.3	774.9	695.6	645.2	630.7
62.5°	1265.1	403.7	306.4	313.6	360.4	461.3	619.9	717.2	605.5	519.0	511.8
65°	425.3	299.2	252.3	241.5	248.7	277.5	371.2	508.2	483.0	400.1	385.7
67.5°	259.5	266.7	237.9	219.9	219.9	216.3	212.7	230.7	284.7	277.5	281.1
70°	223.5	245.1	219.9	198.2	191.0	180.2	151.4	126.1	108.1	126.1	133.4
72.5°	180.2	194.6	187.4	169.4	151.4	137.0	108.1	82.9	61.3	54.1	54.1
75°	133.4	144.2	151.4	129.8	115.3	97.3	79.3	54.1	32.4	21.6	21.6
77.5°	97.3	108.1	111.7	100.9	86.5	68.5	50.5	36.0	18.0	7.2	7.2
80°	82.9	97.3	108.1	100.9	90.1	64.9	46.9	25.2	14.4	3.6	3.6
82.5°	79.3	97.3	108.1	97.3	86.5	61.3	46.9	28.8	10.8	3.6	3.6
85°	18.0	25.2	32.4	39.6	46.9	46.9	36.0	21.6	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	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)