

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: P528629

Luminaire Tested: **GALN-SA3D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11393 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

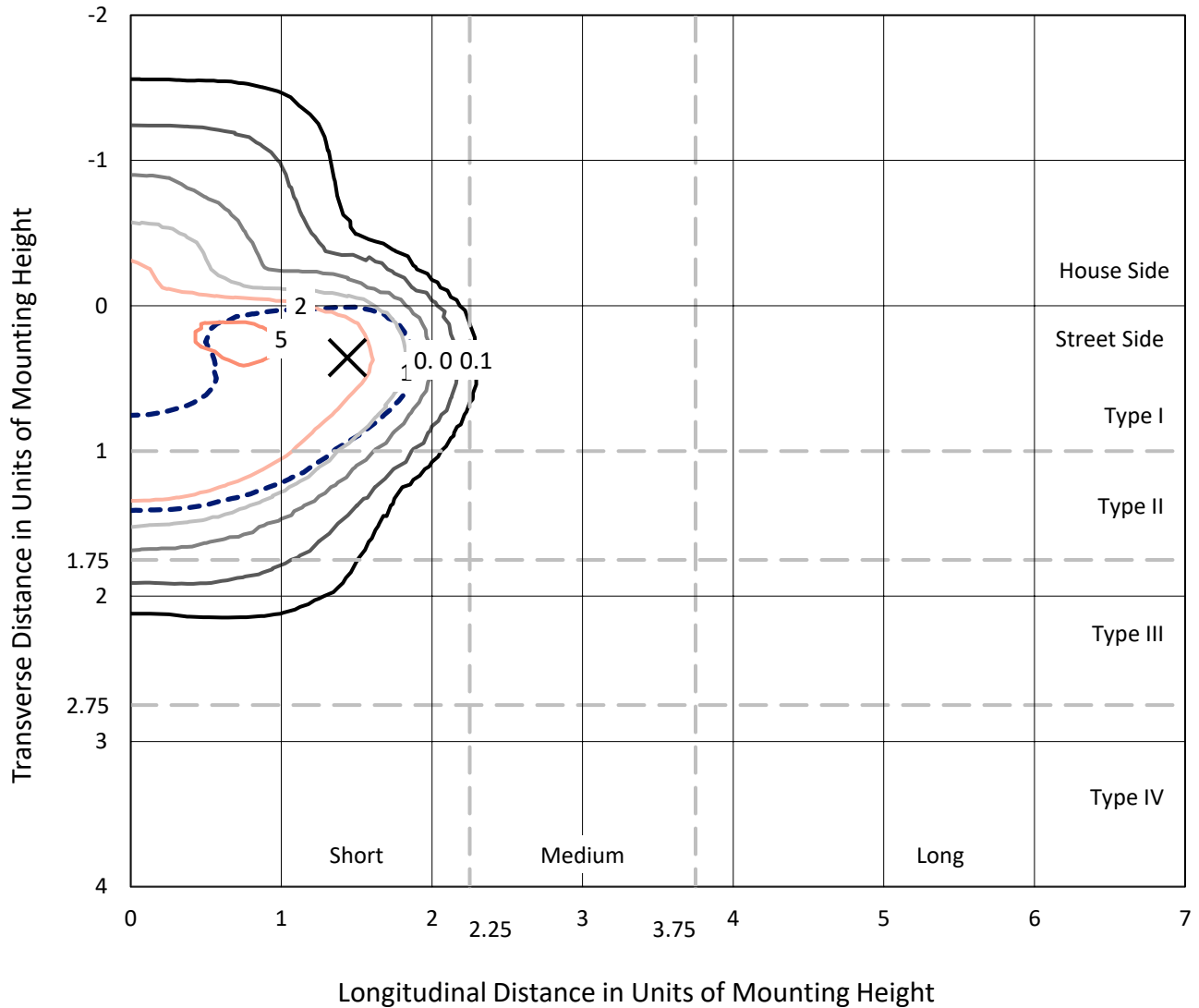
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

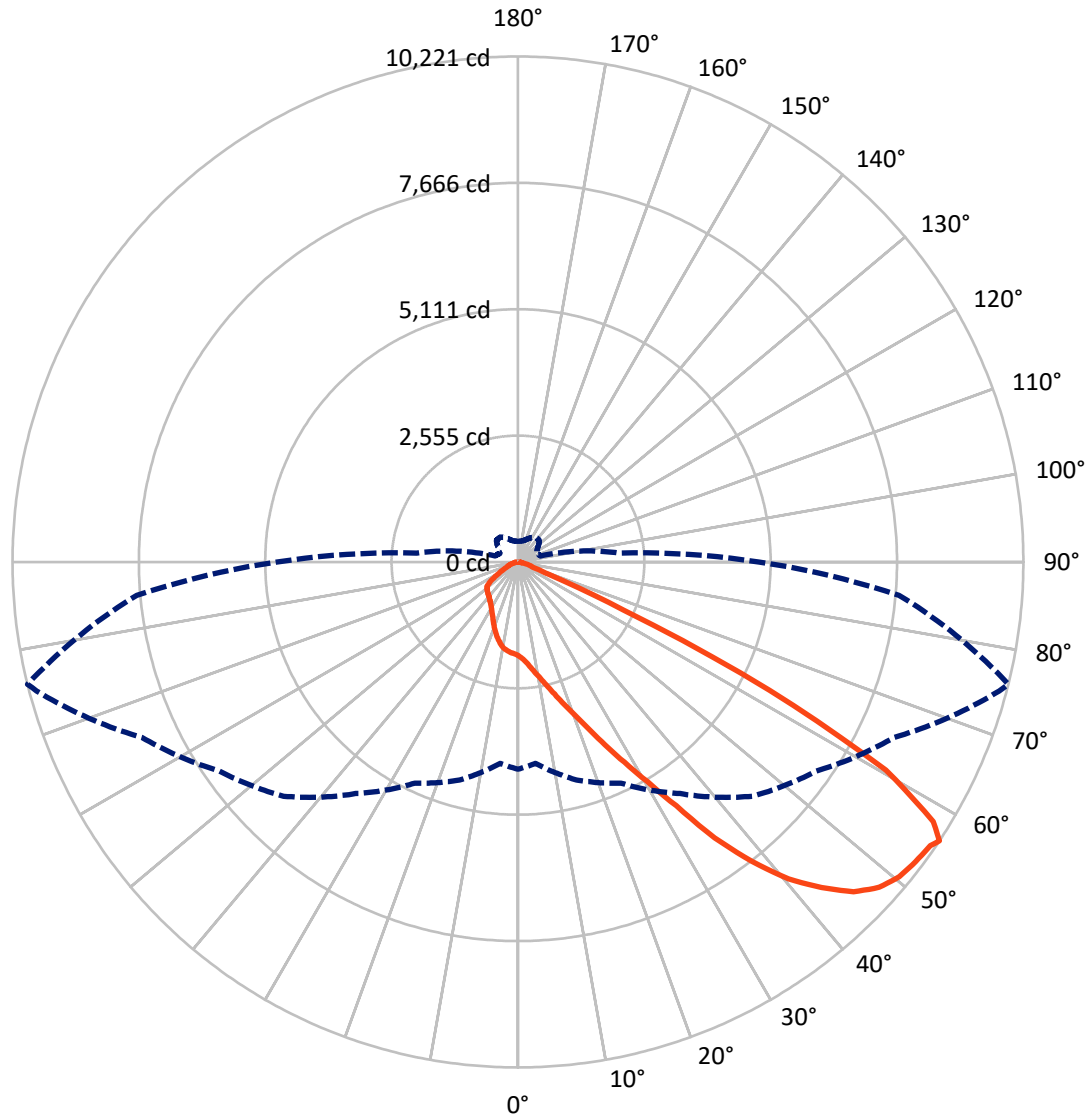
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1789.8	0.0	1789.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9603.2	0.0	9603.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	11393.0	0.0	11393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.7
10°-20°	613.7	5.4
20°-30°	1112.8	9.8
30°-40°	1919.1	16.8
40°-50°	3117.7	27.4
50°-60°	3286.2	28.8
60°-70°	1004.1	8.8
70°-80°	128.7	1.1
80°-90°	19.6	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°	11393.0	100.0
0°-180°	11393.0	100.0

Coefficient of Utilization

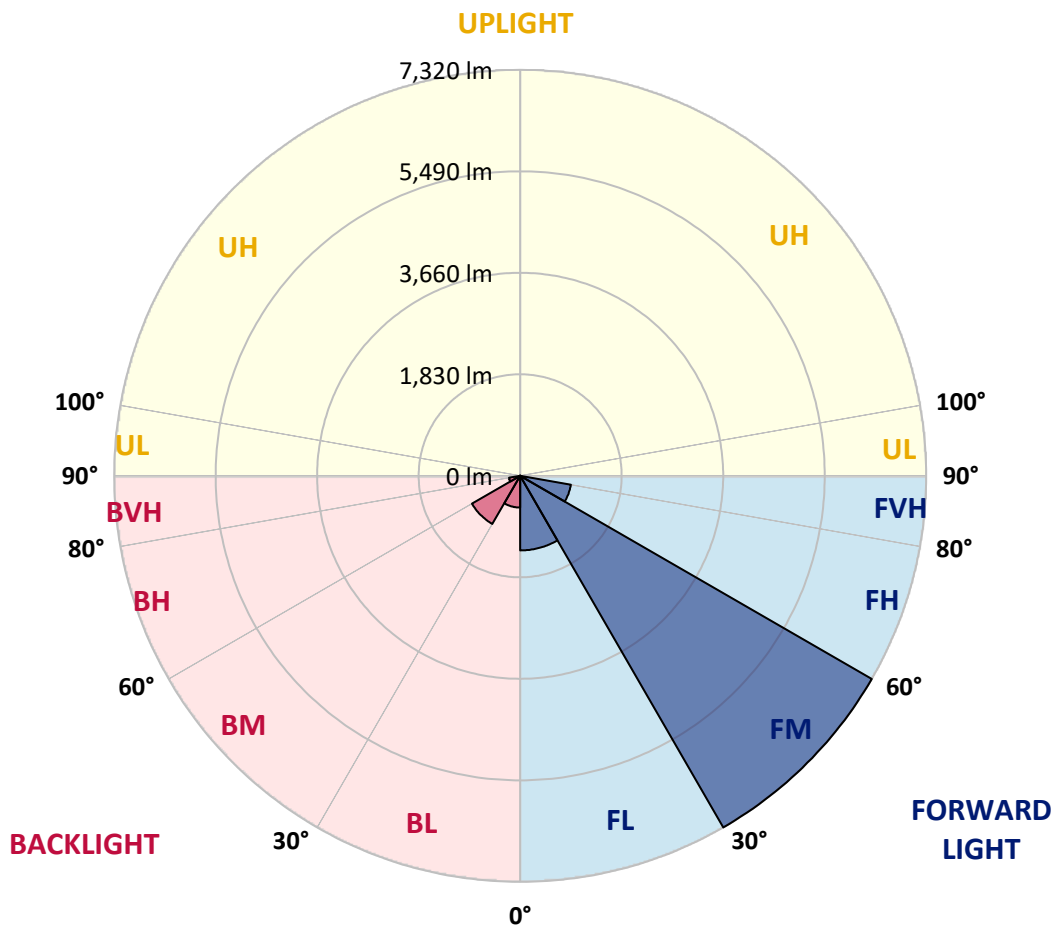


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.0	11.8			
FM (30°-60°)	7320.0	64.3			
FH (60°-80°)	928.6	8.2			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	572.6	5.0	B2/1000		
BM (30°-60°)	1003.0	8.8	B2/2500		
BH (60°-80°)	204.2	1.8	B1/500		G1/500
BVH (80°-90°)	10.0	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°	76°	85°
0°	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4
2.5°	2184.1	2133.7	2135.8	2131.6	2125.3	2102.2	2032.9	2022.4	1976.2	1963.6	1921.6
5°	2446.6	2402.5	2427.7	2389.9	2354.2	2333.2	2219.8	2167.3	2093.8	2066.5	2007.7
7.5°	2610.4	2589.4	2581.0	2583.1	2549.5	2497.0	2446.6	2331.1	2232.4	2211.4	2087.5
10°	2690.2	2677.6	2690.2	2683.9	2698.6	2704.9	2616.7	2547.4	2402.5	2366.8	2173.6
12.5°	2709.1	2734.3	2744.8	2772.1	2807.8	2868.7	2862.4	2767.9	2574.7	2551.6	2305.9
15°	2755.3	2776.3	2765.8	2809.9	2877.1	2980.0	3034.6	3019.9	2812.0	2770.0	2459.2
17.5°	2797.3	2759.5	2795.2	2883.4	2950.6	3108.1	3240.4	3301.3	3070.3	3022.0	2599.9
20°	2854.0	2843.5	2837.2	2881.3	3001.0	3211.0	3473.6	3584.9	3360.1	3309.7	2801.5
22.5°	3026.2	3028.3	3024.1	2959.0	3045.1	3282.4	3677.3	3952.4	3706.7	3664.7	3030.4
25°	3253.0	3225.7	3204.7	3152.2	3141.7	3347.5	3883.1	4401.8	4122.5	4093.1	3278.2
27.5°	3492.5	3492.5	3429.4	3381.1	3313.9	3509.3	4072.1	4838.6	4624.4	4584.5	3494.6
30°	3752.9	3767.6	3759.2	3656.3	3614.3	3685.7	4265.3	5397.2	5199.8	5149.4	3851.6
32.5°	4137.2	4105.7	4141.4	4055.3	3931.4	3994.4	4569.8	5897.1	5947.5	5876.1	4319.9
35°	4645.4	4626.5	4603.4	4462.7	4315.7	4366.1	5000.3	6512.4	6886.2	6850.5	4792.4
37.5°	5101.1	5090.6	5071.7	4975.1	4805.0	4865.9	5489.6	7152.9	7801.8	7684.2	5460.2
40°	5579.9	5636.6	5575.7	5489.6	5334.2	5468.6	6065.1	7533.0	8572.6	8429.8	5970.6
42.5°	6228.9	6184.8	6212.1	6054.6	5970.6	6117.6	6642.6	7913.1	9171.1	9001.0	6512.4
45°	6919.8	6921.9	6848.4	6798.0	6579.6	6739.2	6997.5	8123.2	9647.8	9515.5	6921.9
47.5°	7362.9	7360.8	7440.6	7520.4	7295.7	7138.2	7239.0	8322.7	9893.5	9832.6	7071.0
50°	7293.6	7314.6	7417.5	7715.7	7833.3	7621.2	7465.8	8263.9	10004.8	9998.5	7199.1
52.5°	6344.4	6413.7	6585.9	7016.4	7608.6	7871.1	7703.1	8373.1	10059.4	10069.9	7390.2
55°	4830.2	4868.0	5195.6	5718.5	6373.8	7272.6	7608.6	8459.2	10101.4	10120.3	7621.2
56°	4189.7	4088.9	4561.4	4933.1	5716.4	6699.3	7369.2	8392.0	10076.2	10221.1	7736.7
57.5°	3162.7	3095.5	3477.8	3941.9	4695.8	5733.2	6625.8	8074.8	9906.1	9904.0	7570.8
60°	1923.7	1856.5	2150.5	2423.5	2845.6	3530.3	4477.4	6430.5	8375.2	8551.6	6130.2
62.5°	1144.5	1186.6	1476.4	1642.3	1778.8	1850.2	2316.4	3822.2	5588.3	5714.3	3803.3
65°	762.3	777.0	995.4	1268.5	1329.4	1058.4	942.9	1547.8	2423.5	2345.8	1568.8
67.5°	470.4	504.0	667.8	953.4	1056.3	772.8	447.3	577.5	667.8	667.8	453.6
70°	285.6	302.4	445.2	648.9	724.5	497.7	325.5	325.5	321.3	315.0	270.9
72.5°	136.5	147.0	226.8	333.9	340.2	262.5	252.0	275.1	268.8	266.7	224.7
75°	58.8	63.0	79.8	105.0	119.7	111.3	153.3	197.4	203.7	197.4	161.7
77.5°	18.9	21.0	29.4	37.8	39.9	48.3	65.1	81.9	94.5	88.2	79.8
80°	2.1	4.2	8.4	18.9	29.4	37.8	48.3	54.6	60.9	60.9	56.7
82.5°	2.1	2.1	8.4	16.8	27.3	35.7	46.2	52.5	60.9	63.0	58.8
85°	0.0	2.1	6.3	14.7	23.1	23.1	21.0	21.0	14.7	14.7	14.7
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4	1896.4
2.5°	1913.2	1909.0	1852.3	1816.6	1797.7	1759.9	1736.8	1720.0	1707.4	1692.7	1694.8
5°	1938.4	1923.7	1829.2	1764.1	1686.4	1644.4	1608.7	1579.3	1560.4	1556.2	1547.8
7.5°	2009.8	1932.1	1789.3	1671.7	1573.0	1531.0	1499.5	1480.6	1489.0	1470.1	1484.8
10°	2064.4	1948.9	1741.0	1570.9	1472.2	1440.7	1423.9	1438.6	1459.6	1451.2	1440.7
12.5°	2131.6	1965.7	1663.3	1474.3	1381.9	1358.8	1388.2	1415.5	1457.5	1474.3	1453.3
15°	2207.2	1984.6	1564.6	1363.0	1304.2	1323.1	1373.5	1421.8	1463.8	1484.8	1497.4
17.5°	2299.6	1978.3	1468.0	1274.8	1230.7	1285.3	1346.2	1390.3	1453.3	1484.8	1476.4
20°	2385.7	1957.3	1360.9	1186.6	1188.7	1239.1	1289.5	1360.9	1394.5	1436.5	1421.8
22.5°	2467.6	1919.5	1249.6	1125.6	1125.6	1203.4	1228.6	1274.8	1304.2	1325.2	1323.1
25°	2583.1	1848.1	1157.2	1066.8	1092.0	1142.4	1163.5	1178.2	1165.6	1182.4	1184.5
27.5°	2665.0	1774.6	1081.5	1014.3	1060.5	1098.3	1092.0	1083.6	1054.2	1031.1	1045.8
30°	2753.2	1688.5	1016.4	978.6	1003.8	1037.4	1012.2	987.0	940.8	903.0	905.1
32.5°	2879.2	1648.6	959.7	936.6	970.2	974.4	947.1	909.3	863.1	827.4	825.3
35°	3114.4	1623.4	911.4	909.3	915.6	917.7	890.4	844.2	825.3	795.9	806.4
37.5°	3349.6	1610.8	877.8	869.4	867.3	869.4	837.9	793.8	829.5	827.4	831.6
40°	3650.0	1667.5	829.5	819.0	821.1	821.1	781.2	768.6	831.6	837.9	840.0
42.5°	3954.5	1738.9	798.0	764.4	772.8	772.8	751.8	737.1	781.2	739.2	732.9
45°	4219.1	1843.9	764.4	709.8	730.8	741.3	735.0	709.8	682.5	611.1	611.1
47.5°	4305.2	1936.3	724.5	657.3	674.1	720.3	701.4	648.9	600.6	541.8	537.6
50°	4456.4	2037.1	693.0	596.4	632.1	688.8	669.9	617.4	562.8	520.8	522.9
52.5°	4611.8	2152.6	634.2	525.0	569.1	663.6	663.6	604.8	520.8	491.4	487.2
55°	4844.9	2148.4	529.2	430.5	508.2	625.8	636.3	541.8	466.2	443.1	443.1
56°	4878.5	2051.8	476.7	403.2	480.9	615.3	617.4	525.0	445.2	420.0	420.0
57.5°	4626.5	1852.3	417.9	369.6	447.3	596.4	598.5	510.3	428.4	392.7	388.5
60°	3559.7	1253.8	348.6	329.7	405.3	537.6	548.1	464.1	375.9	348.6	346.5
62.5°	2009.8	695.1	306.6	298.2	348.6	457.8	489.3	405.3	319.2	304.5	308.7
65°	917.7	382.2	258.3	241.5	281.4	352.8	394.8	333.9	262.5	245.7	245.7
67.5°	336.0	260.4	220.5	191.1	197.4	228.9	256.2	216.3	174.3	149.1	155.4
70°	239.4	218.4	193.2	165.9	153.3	149.1	147.0	121.8	86.1	67.2	71.4
72.5°	193.2	180.6	161.7	140.7	119.7	100.8	86.1	63.0	39.9	27.3	25.2
75°	138.6	132.3	117.6	100.8	84.0	71.4	58.8	39.9	21.0	10.5	10.5
77.5°	71.4	71.4	69.3	63.0	52.5	42.0	33.6	23.1	12.6	4.2	4.2
80°	54.6	58.8	60.9	54.6	48.3	37.8	27.3	16.8	8.4	2.1	2.1
82.5°	52.5	60.9	65.1	56.7	48.3	35.7	27.3	16.8	8.4	2.1	2.1
85°	12.6	12.6	18.9	21.0	27.3	29.4	23.1	14.7	6.3	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)