

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: P528785

Luminaire Tested: **GALN-SA3D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528785
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-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 10014 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

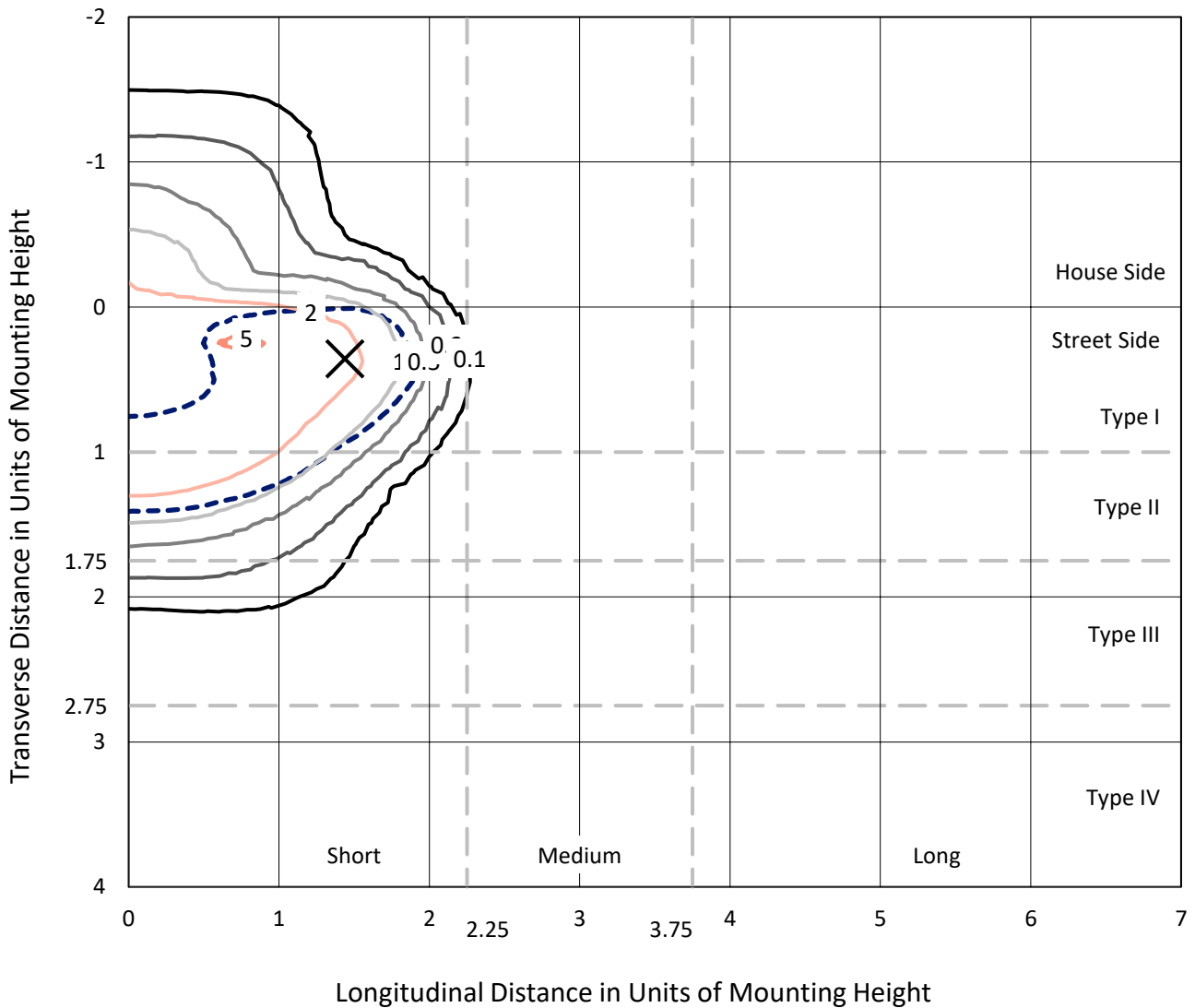
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

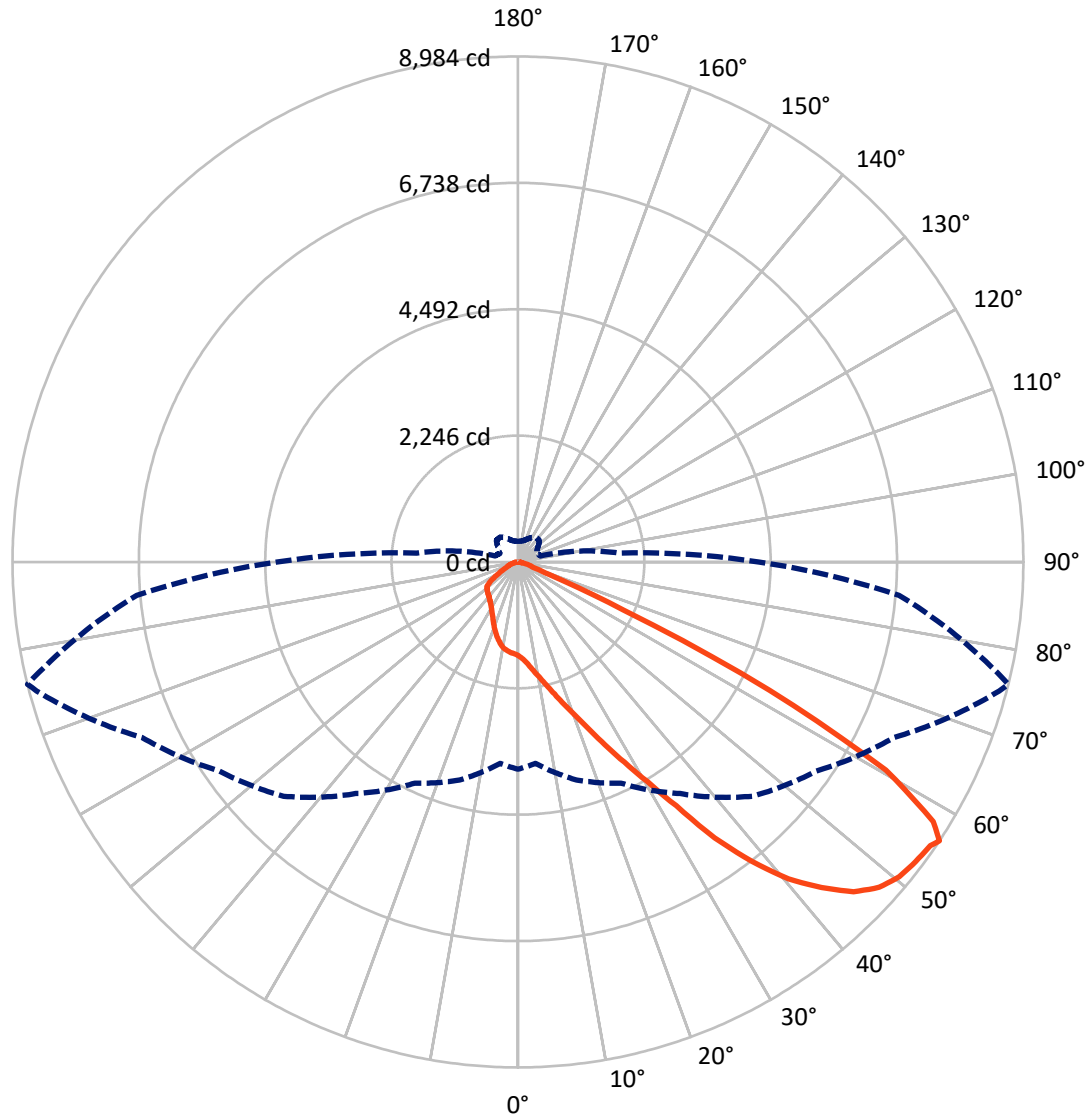
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1573.1	0.0	1573.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8440.8	0.0	8440.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	10014.0	0.0	10014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.7
10°-20°	539.4	5.4
20°-30°	978.1	9.8
30°-40°	1686.9	16.8
40°-50°	2740.4	27.4
50°-60°	2888.4	28.8
60°-70°	882.5	8.8
70°-80°	113.1	1.1
80°-90°	17.2	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°	10014.0	100.0
0°-180°	10014.0	100.0

Coefficient of Utilization

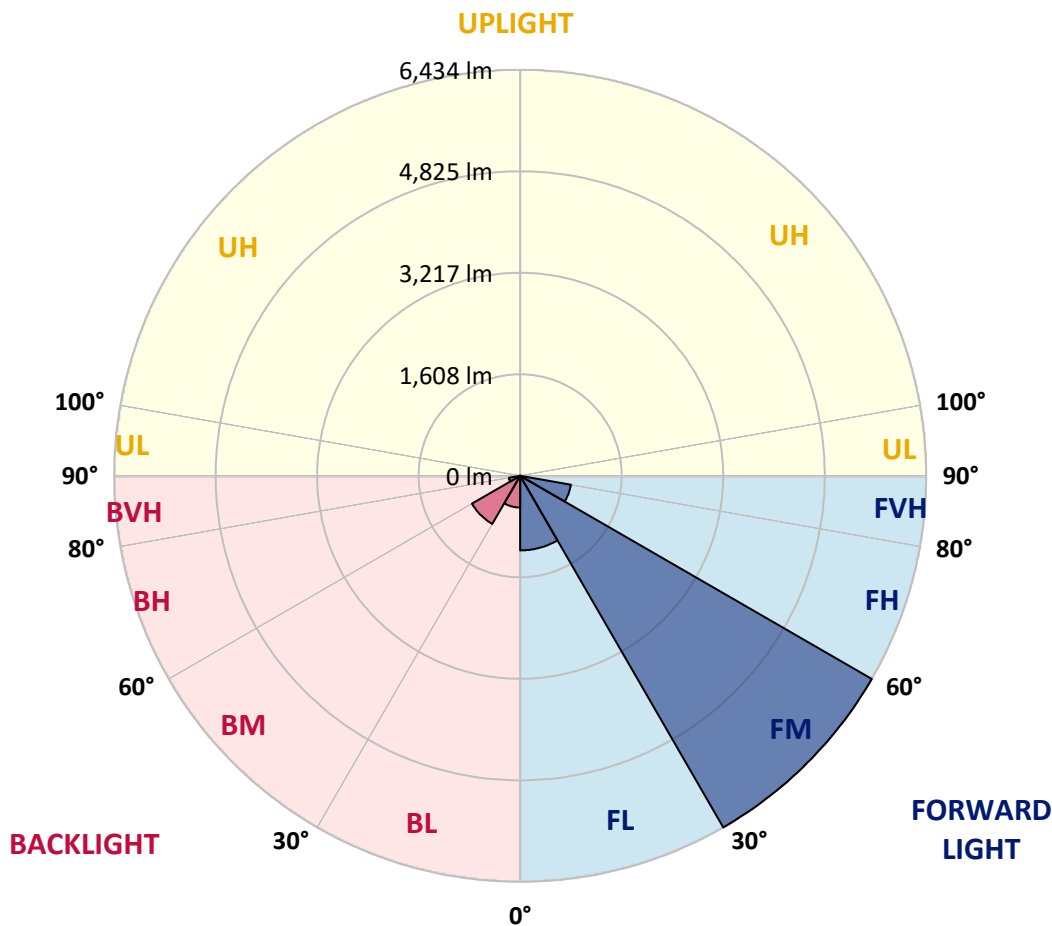


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.2	11.8			
FM (30°-60°)	6434.0	64.2			
FH (60°-80°)	816.2	8.2			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	503.3	5.0	B2/1000		
BM (30°-60°)	881.7	8.8	B1/1000		
BH (60°-80°)	179.5	1.8	B1/500		G1/500
BVH (80°-90°)	8.8	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°	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8
2.5°	1919.7	1875.4	1877.3	1873.6	1868.0	1847.7	1786.8	1777.6	1737.0	1725.9	1689.0
5°	2150.5	2111.7	2133.9	2100.6	2069.3	2050.8	1951.1	1905.0	1840.4	1816.4	1764.7
7.5°	2294.5	2276.0	2268.6	2270.5	2240.9	2194.8	2150.5	2048.9	1962.2	1943.7	1834.8
10°	2364.6	2353.5	2364.6	2359.1	2372.0	2377.5	2300.0	2239.1	2111.7	2080.3	1910.5
12.5°	2381.2	2403.4	2412.6	2436.6	2468.0	2521.5	2516.0	2432.9	2263.1	2242.8	2026.8
15°	2421.8	2440.3	2431.0	2469.8	2528.9	2619.3	2667.3	2654.4	2471.7	2434.7	2161.5
17.5°	2458.7	2425.5	2456.9	2534.4	2593.5	2731.9	2848.2	2901.8	2698.7	2656.2	2285.2
20°	2508.6	2499.3	2493.8	2532.6	2637.8	2822.4	3053.1	3150.9	2953.4	2909.1	2462.4
22.5°	2659.9	2661.8	2658.1	2600.9	2676.6	2885.1	3232.2	3474.0	3258.0	3221.1	2663.6
25°	2859.3	2835.3	2816.8	2770.7	2761.5	2942.4	3413.1	3869.0	3623.5	3597.7	2881.4
27.5°	3069.7	3069.7	3014.4	2971.9	2912.8	3084.5	3579.2	4252.9	4064.7	4029.6	3071.6
30°	3298.6	3311.5	3304.2	3213.7	3176.8	3239.5	3749.0	4744.0	4570.4	4526.1	3385.4
32.5°	3636.4	3608.7	3640.1	3564.4	3455.5	3510.9	4016.7	5183.3	5227.6	5164.8	3797.0
35°	4083.1	4066.5	4046.2	3922.5	3793.3	3837.6	4395.1	5724.1	6052.7	6021.3	4212.3
37.5°	4483.7	4474.5	4457.8	4372.9	4223.4	4276.9	4825.2	6287.1	6857.5	6754.1	4799.3
40°	4904.5	4954.4	4900.9	4825.2	4688.6	4806.7	5331.0	6621.2	7535.0	7409.4	5247.9
42.5°	5474.9	5436.2	5460.2	5321.7	5247.9	5377.1	5838.6	6955.3	8061.0	7911.5	5724.1
45°	6082.2	6084.1	6019.5	5975.2	5783.2	5923.5	6150.5	7139.9	8480.1	8363.8	6084.1
47.5°	6471.7	6469.9	6540.0	6610.2	6412.6	6274.2	6362.8	7315.3	8696.0	8642.5	6215.1
50°	6410.8	6429.3	6519.7	6781.8	6885.2	6698.8	6562.2	7263.6	8793.9	8788.3	6327.7
52.5°	5576.5	5637.4	5788.7	6167.1	6687.7	6918.4	6770.8	7359.6	8841.8	8851.1	6495.7
55°	4245.6	4278.8	4566.8	5026.4	5602.3	6392.3	6687.7	7435.3	8878.8	8895.4	6698.8
56°	3682.6	3594.0	4009.3	4336.0	5024.5	5888.4	6477.3	7376.2	8856.6	8984.0	6800.3
57.5°	2779.9	2720.9	3056.8	3464.7	4127.4	5039.3	5823.8	7097.5	8707.1	8705.3	6654.5
60°	1690.8	1631.8	1890.2	2130.2	2501.2	3103.0	3935.5	5652.1	7361.4	7516.5	5388.2
62.5°	1006.0	1042.9	1297.7	1443.5	1563.5	1626.2	2036.0	3359.5	4911.9	5022.7	3342.9
65°	670.1	683.0	875.0	1114.9	1168.5	930.3	828.8	1360.4	2130.2	2061.9	1378.9
67.5°	413.5	443.0	587.0	838.0	928.5	679.3	393.2	507.6	587.0	587.0	398.7
70°	251.0	265.8	391.3	570.4	636.8	437.5	286.1	286.1	282.4	276.9	238.1
72.5°	120.0	129.2	199.4	293.5	299.0	230.7	221.5	241.8	236.3	234.4	197.5
75°	51.7	55.4	70.1	92.3	105.2	97.8	134.8	173.5	179.1	173.5	142.1
77.5°	16.6	18.5	25.8	33.2	35.1	42.5	57.2	72.0	83.1	77.5	70.1
80°	1.8	3.7	7.4	16.6	25.8	33.2	42.5	48.0	53.5	53.5	49.8
82.5°	1.8	1.8	7.4	14.8	24.0	31.4	40.6	46.1	53.5	55.4	51.7
85°	0.0	1.8	5.5	12.9	20.3	20.3	18.5	18.5	12.9	12.9	12.9
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8	1666.8
2.5°	1681.6	1677.9	1628.1	1596.7	1580.1	1546.9	1526.6	1511.8	1500.7	1487.8	1489.6
5°	1703.8	1690.8	1607.8	1550.6	1482.3	1445.3	1414.0	1388.1	1371.5	1367.8	1360.4
7.5°	1766.5	1698.2	1572.7	1469.3	1382.6	1345.7	1318.0	1301.4	1308.7	1292.1	1305.0
10°	1814.5	1713.0	1530.2	1380.7	1294.0	1266.3	1251.5	1264.4	1282.9	1275.5	1266.3
12.5°	1873.6	1727.8	1462.0	1295.8	1214.6	1194.3	1220.1	1244.1	1281.1	1295.8	1277.4
15°	1940.0	1744.4	1375.2	1198.0	1146.3	1162.9	1207.2	1249.7	1286.6	1305.0	1316.1
17.5°	2021.3	1738.8	1290.3	1120.5	1081.7	1129.7	1183.2	1222.0	1277.4	1305.0	1297.7
20°	2096.9	1720.4	1196.1	1042.9	1044.8	1089.1	1133.4	1196.1	1225.7	1262.6	1249.7
22.5°	2168.9	1687.2	1098.3	989.4	989.4	1057.7	1079.8	1120.5	1146.3	1164.8	1162.9
25°	2270.5	1624.4	1017.1	937.7	959.9	1004.2	1022.6	1035.5	1024.5	1039.2	1041.1
27.5°	2342.4	1559.8	950.6	891.6	932.2	965.4	959.9	952.5	926.6	906.3	919.3
30°	2420.0	1484.1	893.4	860.2	882.3	911.9	889.7	867.6	827.0	793.7	795.6
32.5°	2530.7	1449.0	843.6	823.3	852.8	856.5	832.5	799.3	758.7	727.3	725.4
35°	2737.5	1426.9	801.1	799.3	804.8	806.7	782.7	742.1	725.4	699.6	708.8
37.5°	2944.2	1415.8	771.6	764.2	762.4	764.2	736.5	697.7	729.1	727.3	731.0
40°	3208.2	1465.6	729.1	719.9	721.7	721.7	686.7	675.6	731.0	736.5	738.4
42.5°	3475.8	1528.4	701.4	671.9	679.3	679.3	660.8	647.9	686.7	649.8	644.2
45°	3708.4	1620.7	671.9	623.9	642.4	651.6	646.1	623.9	599.9	537.2	537.2
47.5°	3784.1	1701.9	636.8	577.8	592.5	633.1	616.5	570.4	527.9	476.2	472.5
50°	3917.0	1790.5	609.1	524.2	555.6	605.5	588.8	542.7	494.7	457.8	459.6
52.5°	4053.6	1892.0	557.5	461.5	500.2	583.3	583.3	531.6	457.8	431.9	428.2
55°	4258.5	1888.4	465.2	378.4	446.7	550.1	559.3	476.2	409.8	389.5	389.5
56°	4288.0	1803.4	419.0	354.4	422.7	540.8	542.7	461.5	391.3	369.2	369.2
57.5°	4066.5	1628.1	367.3	324.9	393.2	524.2	526.1	448.6	376.6	345.2	341.5
60°	3128.8	1102.0	306.4	289.8	356.3	472.5	481.8	407.9	330.4	306.4	304.6
62.5°	1766.5	611.0	269.5	262.1	306.4	402.4	430.1	356.3	280.6	267.7	271.3
65°	806.7	336.0	227.0	212.3	247.4	310.1	347.0	293.5	230.7	216.0	216.0
67.5°	295.3	228.9	193.8	168.0	173.5	201.2	225.2	190.1	153.2	131.1	136.6
70°	210.4	192.0	169.8	145.8	134.8	131.1	129.2	107.1	75.7	59.1	62.8
72.5°	169.8	158.7	142.1	123.7	105.2	88.6	75.7	55.4	35.1	24.0	22.2
75°	121.8	116.3	103.4	88.6	73.8	62.8	51.7	35.1	18.5	9.2	9.2
77.5°	62.8	62.8	60.9	55.4	46.1	36.9	29.5	20.3	11.1	3.7	3.7
80°	48.0	51.7	53.5	48.0	42.5	33.2	24.0	14.8	7.4	1.8	1.8
82.5°	46.1	53.5	57.2	49.8	42.5	31.4	24.0	14.8	7.4	1.8	1.8
85°	11.1	11.1	16.6	18.5	24.0	25.8	20.3	12.9	5.5	1.8	1.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	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)