

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: P528239

Luminaire Tested: **GALN-SA3B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528239
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-SA3B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 10020 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

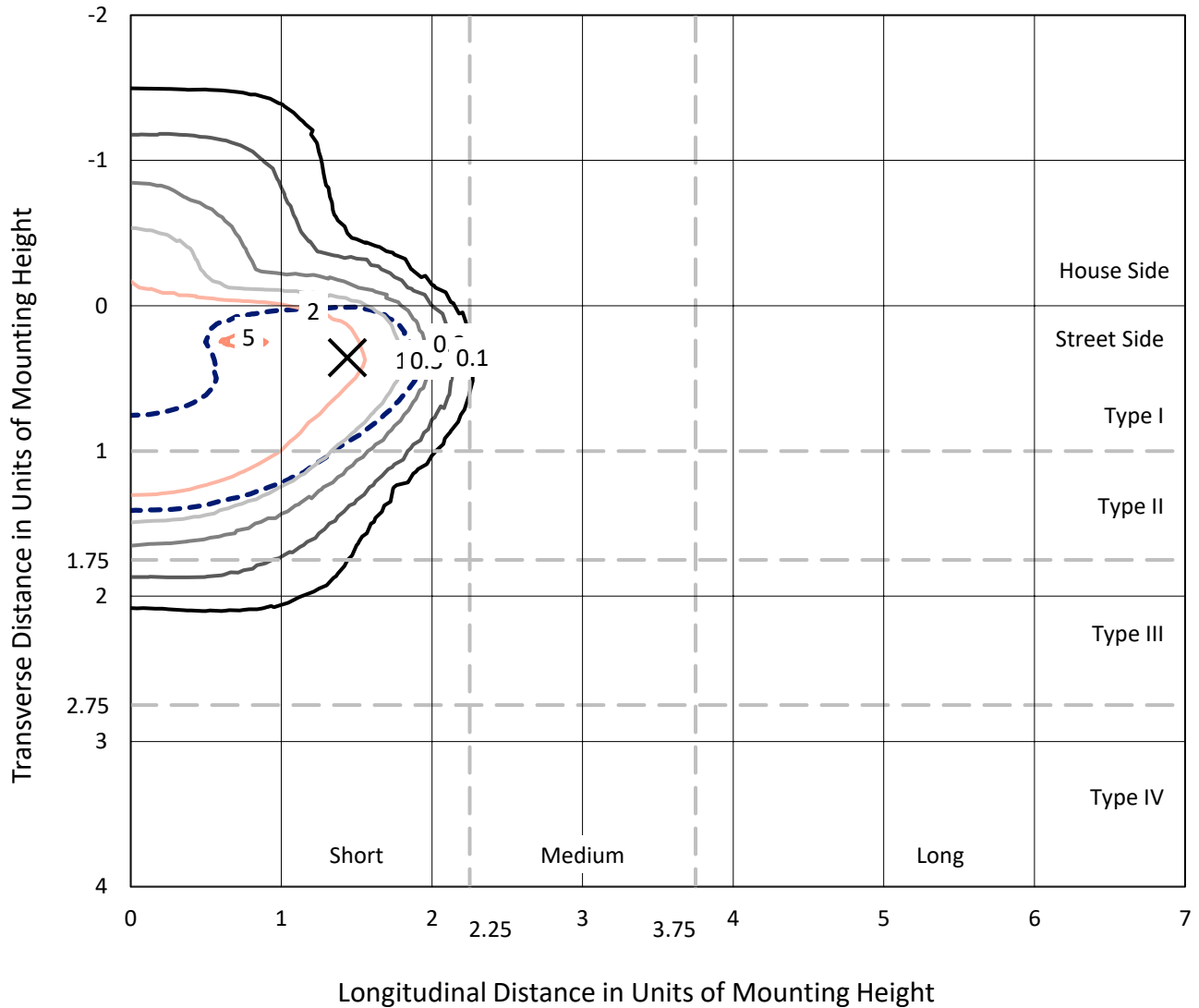
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

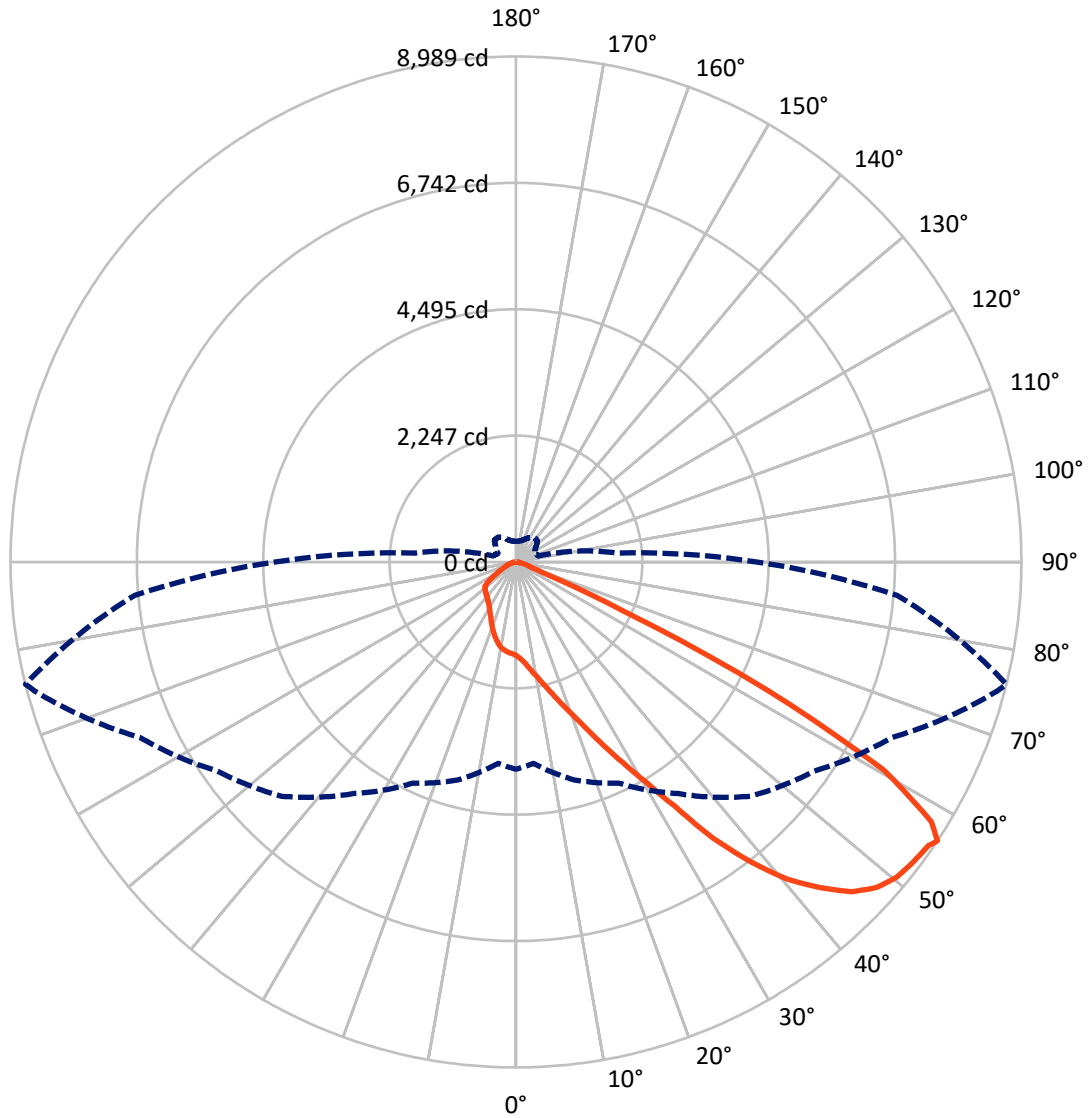
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1574.1	0.0	1574.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8445.9	0.0	8445.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	10020.0	0.0	10020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.7
10°-20°	539.8	5.4
20°-30°	978.7	9.8
30°-40°	1687.9	16.8
40°-50°	2742.0	27.4
50°-60°	2890.2	28.8
60°-70°	883.1	8.8
70°-80°	113.2	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°	10020.0	100.0
0°-180°	10020.0	100.0

Coefficient of Utilization

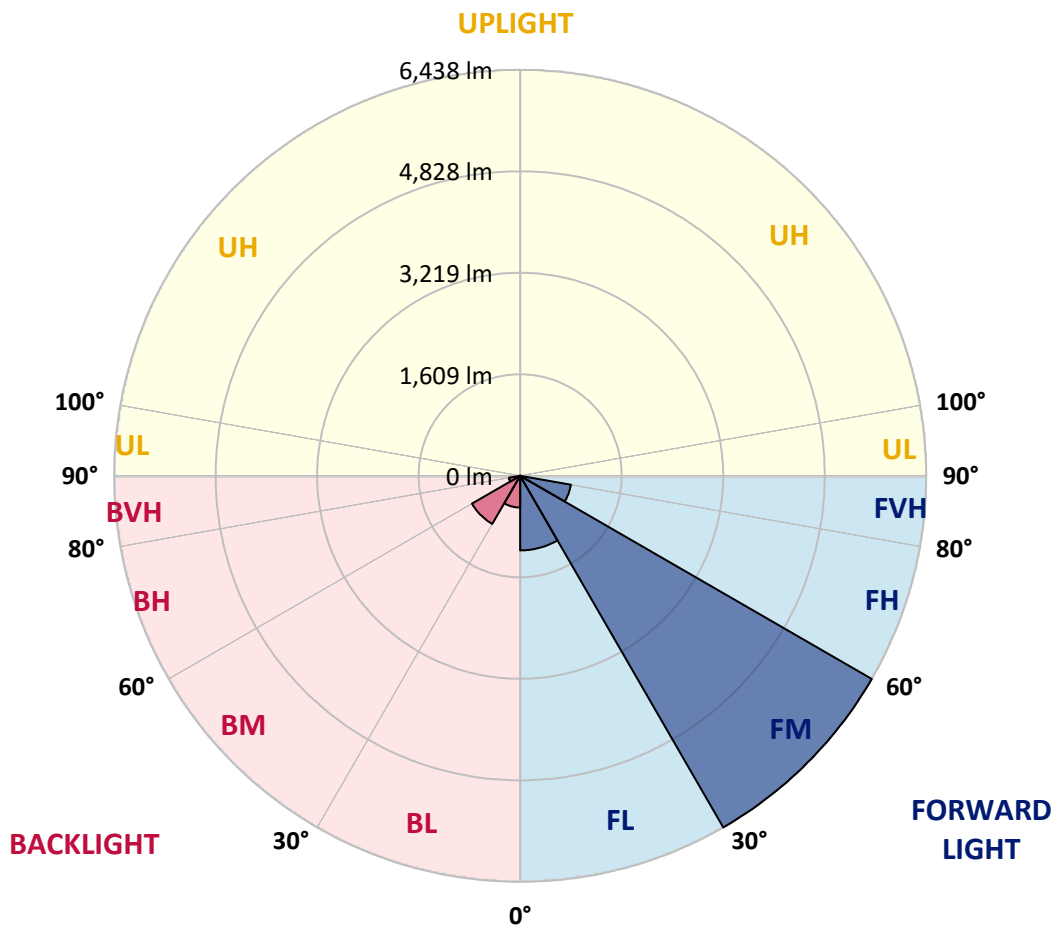


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.0	11.8			
FM (30°-60°)	6437.8	64.2			
FH (60°-80°)	816.7	8.2			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	503.6	5.0	B2/1000		
BM (30°-60°)	882.2	8.8	B1/1000		
BH (60°-80°)	179.6	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°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1920.9	1876.6	1878.4	1874.7	1869.2	1848.9	1787.9	1778.7	1738.0	1726.9	1690.0
5°	2151.8	2113.0	2135.1	2101.9	2070.5	2052.0	1952.3	1906.1	1841.5	1817.5	1765.7
7.5°	2295.8	2277.4	2270.0	2271.8	2242.3	2196.1	2151.8	2050.2	1963.4	1944.9	1835.9
10°	2366.0	2354.9	2366.0	2360.5	2373.4	2378.9	2301.4	2240.4	2113.0	2081.6	1911.6
12.5°	2382.6	2404.8	2414.0	2438.0	2469.4	2523.0	2517.5	2434.4	2264.4	2244.1	2028.0
15°	2423.3	2441.7	2432.5	2471.3	2530.4	2620.9	2668.9	2656.0	2473.1	2436.2	2162.8
17.5°	2460.2	2427.0	2458.4	2535.9	2595.0	2733.6	2849.9	2903.5	2700.3	2657.8	2286.6
20°	2510.1	2500.8	2495.3	2534.1	2639.4	2824.1	3054.9	3152.8	2955.2	2910.9	2463.9
22.5°	2661.5	2663.4	2659.7	2602.4	2678.2	2886.9	3234.1	3476.1	3260.0	3223.0	2665.2
25°	2861.0	2837.0	2818.5	2772.4	2763.1	2944.1	3415.1	3871.3	3625.7	3599.8	2883.2
27.5°	3071.6	3071.6	3016.2	2973.7	2914.6	3086.3	3581.3	4255.5	4067.1	4032.0	3073.4
30°	3300.6	3313.5	3306.1	3215.6	3178.7	3241.5	3751.3	4746.8	4573.2	4528.9	3387.4
32.5°	3638.6	3610.9	3642.3	3566.6	3457.6	3513.0	4019.1	5186.4	5230.7	5167.9	3799.3
35°	4085.6	4068.9	4048.6	3924.9	3795.6	3839.9	4397.7	5727.6	6056.3	6024.9	4214.9
37.5°	4486.4	4477.1	4460.5	4375.6	4225.9	4279.5	4828.1	6290.9	6861.6	6758.2	4802.2
40°	4907.5	4957.4	4903.8	4828.1	4691.4	4809.6	5334.1	6625.2	7539.5	7413.9	5251.0
42.5°	5478.2	5439.4	5463.4	5324.9	5251.0	5380.3	5842.1	6959.5	8065.9	7916.3	5727.6
45°	6085.9	6087.7	6023.1	5978.7	5786.7	5927.0	6154.2	7144.2	8485.1	8368.8	6087.7
47.5°	6475.6	6473.7	6543.9	6614.1	6416.5	6278.0	6366.6	7319.7	8701.2	8647.7	6218.9
50°	6414.6	6433.1	6523.6	6785.9	6889.3	6702.8	6566.1	7268.0	8799.1	8793.6	6331.5
52.5°	5579.8	5640.7	5792.2	6170.8	6691.7	6922.6	6774.8	7364.0	8847.1	8856.4	6499.6
55°	4248.1	4281.4	4569.5	5029.4	5605.7	6396.2	6691.7	7439.7	8884.1	8900.7	6702.8
56°	3684.8	3596.1	4011.7	4338.6	5027.5	5891.9	6481.1	7380.6	8861.9	8989.4	6804.4
57.5°	2781.6	2722.5	3058.6	3466.8	4129.9	5042.3	5827.3	7101.7	8712.3	8710.5	6658.4
60°	1691.9	1632.8	1891.3	2131.4	2502.7	3104.8	3937.8	5655.5	7365.8	7521.0	5391.4
62.5°	1006.6	1043.6	1298.4	1444.4	1564.4	1627.2	2037.2	3361.5	4914.9	5025.7	3344.9
65°	670.5	683.4	875.5	1115.6	1169.2	930.9	829.3	1361.2	2131.4	2063.1	1379.7
67.5°	413.7	443.3	587.3	838.5	929.0	679.7	393.4	507.9	587.3	587.3	399.0
70°	251.2	266.0	391.6	570.7	637.2	437.7	286.3	286.3	282.6	277.1	238.3
72.5°	120.1	129.3	199.5	293.7	299.2	230.9	221.6	242.0	236.4	234.6	197.6
75°	51.7	55.4	70.2	92.4	105.3	97.9	134.8	173.6	179.2	173.6	142.2
77.5°	16.6	18.5	25.9	33.2	35.1	42.5	57.3	72.0	83.1	77.6	70.2
80°	1.8	3.7	7.4	16.6	25.9	33.2	42.5	48.0	53.6	53.6	49.9
82.5°	1.8	1.8	7.4	14.8	24.0	31.4	40.6	46.2	53.6	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°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1682.6	1678.9	1629.1	1597.7	1581.0	1547.8	1527.5	1512.7	1501.6	1488.7	1490.5
5°	1704.8	1691.9	1608.7	1551.5	1483.1	1446.2	1414.8	1388.9	1372.3	1368.6	1361.2
7.5°	1767.6	1699.2	1573.6	1470.2	1383.4	1346.5	1318.8	1302.1	1309.5	1292.9	1305.8
10°	1815.6	1714.0	1531.2	1381.6	1294.7	1267.0	1252.3	1265.2	1283.7	1276.3	1267.0
12.5°	1874.7	1728.8	1462.8	1296.6	1215.3	1195.0	1220.9	1244.9	1281.8	1296.6	1278.1
15°	1941.2	1745.4	1376.0	1198.7	1147.0	1163.6	1207.9	1250.4	1287.4	1305.8	1316.9
17.5°	2022.5	1739.9	1291.1	1121.1	1082.3	1130.4	1183.9	1222.7	1278.1	1305.8	1298.4
20°	2098.2	1721.4	1196.9	1043.6	1045.4	1089.7	1134.1	1196.9	1226.4	1263.4	1250.4
22.5°	2170.2	1688.2	1099.0	990.0	990.0	1058.3	1080.5	1121.1	1147.0	1165.5	1163.6
25°	2271.8	1625.4	1017.7	938.3	960.4	1004.8	1023.2	1036.2	1025.1	1039.9	1041.7
27.5°	2343.8	1560.7	951.2	892.1	932.7	966.0	960.4	953.1	927.2	906.9	919.8
30°	2421.4	1485.0	893.9	860.7	882.9	912.4	890.3	868.1	827.5	794.2	796.1
32.5°	2532.2	1449.9	844.1	823.8	853.3	857.0	833.0	799.8	759.1	727.7	725.9
35°	2739.1	1427.7	801.6	799.8	805.3	807.1	783.1	742.5	725.9	700.0	709.2
37.5°	2946.0	1416.7	772.0	764.7	762.8	764.7	737.0	698.2	729.6	727.7	731.4
40°	3210.1	1466.5	729.6	720.3	722.2	722.2	687.1	676.0	731.4	737.0	738.8
42.5°	3477.9	1529.3	701.9	672.3	679.7	679.7	661.2	648.3	687.1	650.1	644.6
45°	3710.6	1621.7	672.3	624.3	642.8	652.0	646.5	624.3	600.3	537.5	537.5
47.5°	3786.4	1702.9	637.2	578.1	592.9	633.5	616.9	570.7	528.2	476.5	472.8
50°	3919.3	1791.6	609.5	524.5	555.9	605.8	589.2	543.0	495.0	458.1	459.9
52.5°	4056.0	1893.2	557.8	461.8	500.5	583.7	583.7	531.9	458.1	432.2	428.5
55°	4261.0	1889.5	465.4	378.6	447.0	550.4	559.6	476.5	410.0	389.7	389.7
56°	4290.6	1804.5	419.3	354.6	423.0	541.2	543.0	461.8	391.6	369.4	369.4
57.5°	4068.9	1629.1	367.6	325.1	393.4	524.5	526.4	448.8	376.8	345.4	341.7
60°	3130.7	1102.7	306.6	290.0	356.5	472.8	482.1	408.2	330.6	306.6	304.8
62.5°	1767.6	611.4	269.7	262.3	306.6	402.6	430.4	356.5	280.7	267.8	271.5
65°	807.1	336.2	227.2	212.4	247.5	310.3	347.2	293.7	230.9	216.1	216.1
67.5°	295.5	229.0	193.9	168.1	173.6	201.3	225.3	190.2	153.3	131.1	136.7
70°	210.6	192.1	169.9	145.9	134.8	131.1	129.3	107.1	75.7	59.1	62.8
72.5°	169.9	158.8	142.2	123.7	105.3	88.7	75.7	55.4	35.1	24.0	22.2
75°	121.9	116.4	103.4	88.7	73.9	62.8	51.7	35.1	18.5	9.2	9.2
77.5°	62.8	62.8	61.0	55.4	46.2	36.9	29.6	20.3	11.1	3.7	3.7
80°	48.0	51.7	53.6	48.0	42.5	33.2	24.0	14.8	7.4	1.8	1.8
82.5°	46.2	53.6	57.3	49.9	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	25.9	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)