

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: P528789

Luminaire Tested: **GALN-SA3D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528789
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-SA3D-827-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 10138 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

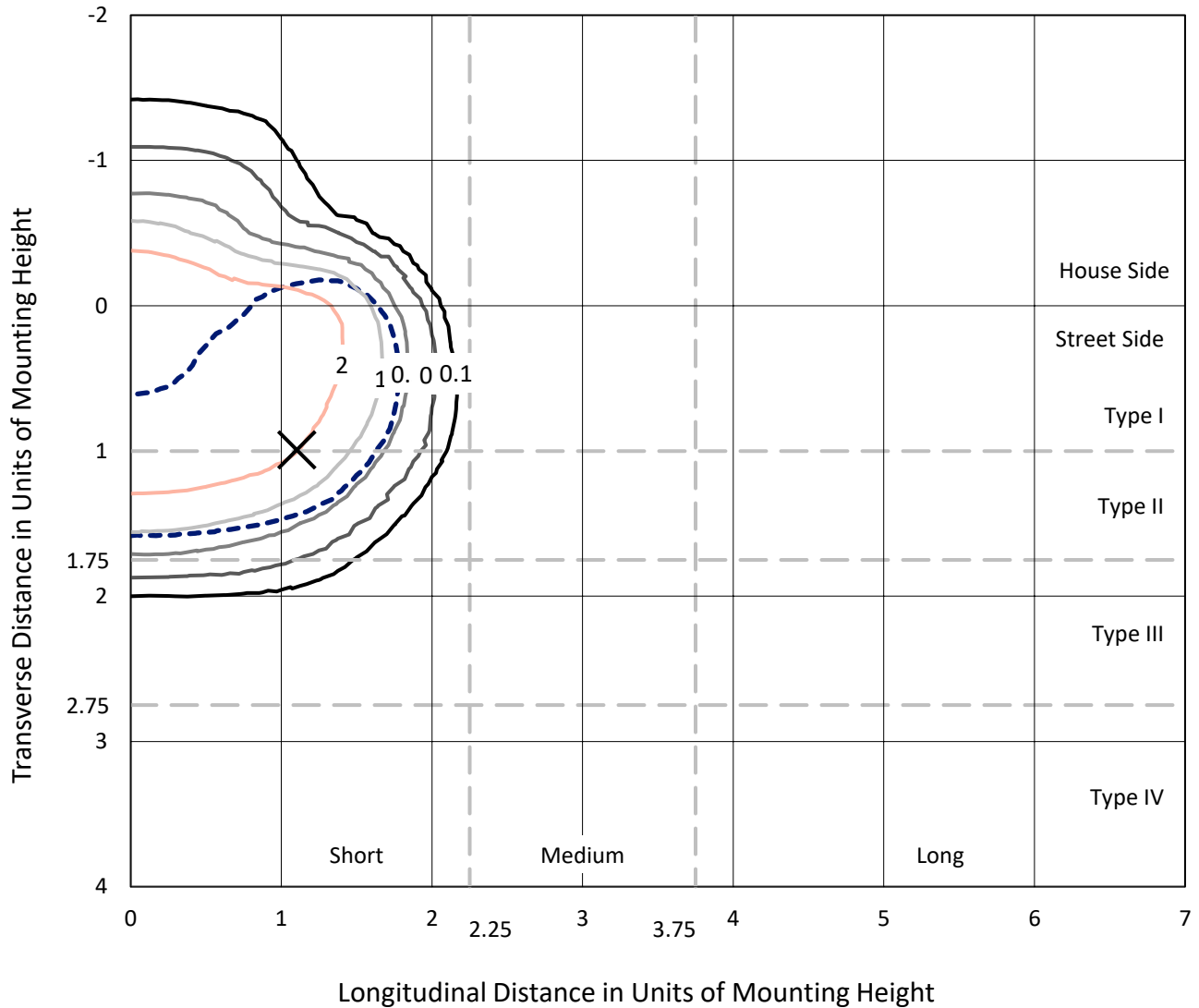
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3D-827-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

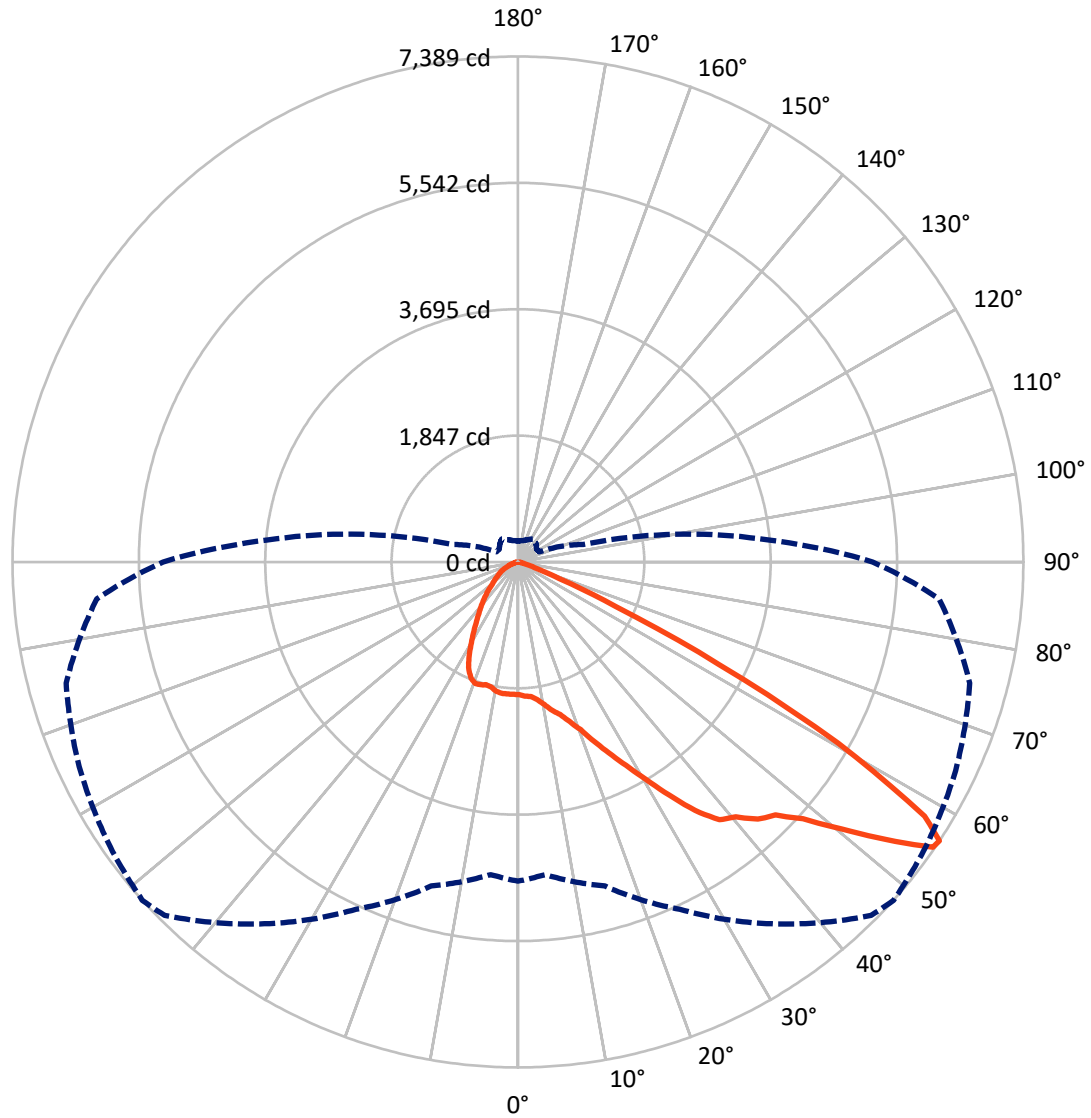
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P528789
CATALOG NUMBER: GALN-SA3D-827-U-T3-GRSBK

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	2204.8	0.0	2204.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7933.2	0.0	7933.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	10138.0	0.0	10138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	1.9
10°-20°	602.8	5.9
20°-30°	1093.4	10.8
30°-40°	1717.5	16.9
40°-50°	2505.5	24.7
50°-60°	3018.6	29.8
60°-70°	883.8	8.7
70°-80°	112.1	1.1
80°-90°	15.7	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°	10138.0	100.0
0°-180°	10138.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528789

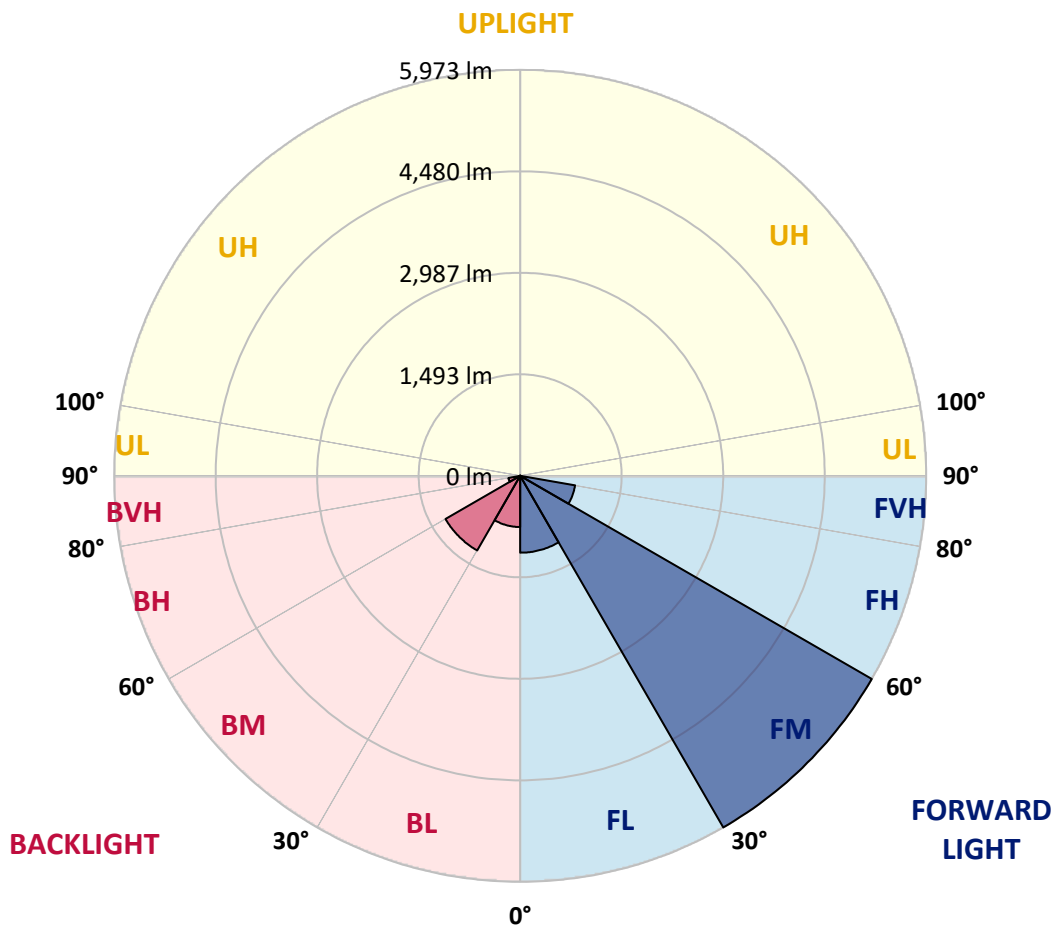
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.2	11.2			
FM (30°-60°)	5973.3	58.9			
FH (60°-80°)	820.7	8.1			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	753.6	7.4	B2/1000		
BM (30°-60°)	1268.2	12.5	B2/2500		
BH (60°-80°)	175.2	1.7	B1/500		G1/500
BVH (80°-90°)	7.8	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





REPORT NUMBER: P528789

CATALOG NUMBER: GALN-SA3D-827-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4
2.5°	1971.4	1962.2	1962.2	1947.4	1964.1	1956.7	1962.2	1943.7	1962.2	1934.5	1956.7
5°	1980.7	1982.5	1975.1	1984.4	1984.4	1995.4	1977.0	1993.6	2002.8	1982.5	1973.3
7.5°	2028.7	2032.3	2030.5	2023.1	2037.9	2036.0	2034.2	2021.3	2025.0	2017.6	2006.5
10°	2122.8	2121.0	2130.2	2111.7	2100.6	2113.6	2117.3	2097.0	2082.2	2076.7	2041.6
12.5°	2259.4	2237.2	2224.3	2205.9	2211.4	2192.9	2226.2	2191.1	2183.7	2150.5	2115.4
15°	2370.2	2366.5	2368.3	2338.8	2305.5	2312.9	2312.9	2294.5	2283.4	2242.8	2192.9
17.5°	2597.2	2519.7	2536.3	2499.4	2471.7	2469.8	2453.2	2456.9	2427.4	2342.5	2266.8
20°	2774.4	2741.2	2715.3	2652.6	2610.1	2623.0	2615.7	2597.2	2588.0	2477.2	2370.2
22.5°	2933.2	2944.2	2901.8	2885.2	2826.1	2831.6	2846.4	2829.8	2759.6	2645.2	2486.4
25°	3156.5	3143.6	3086.4	3066.1	3010.7	3031.0	3088.2	3075.3	3031.0	2824.2	2576.9
27.5°	3420.5	3376.2	3387.2	3295.0	3241.4	3298.6	3366.9	3431.6	3306.0	3034.7	2684.0
30°	3606.9	3560.8	3557.1	3553.4	3540.5	3606.9	3686.3	3745.4	3643.8	3245.1	2861.2
32.5°	3699.2	3710.3	3741.7	3730.6	3843.2	3979.8	4062.9	4147.8	4020.4	3588.5	3095.6
35°	3944.7	3874.6	3944.7	3952.1	4068.4	4358.2	4463.4	4666.5	4635.1	4073.9	3381.7
37.5°	4088.7	4083.2	4092.4	4162.5	4275.1	4633.2	4782.8	4939.7	4880.6	4365.6	3738.0
40°	4326.8	4341.6	4339.7	4393.3	4516.9	4840.0	4900.9	5028.3	5033.8	4769.8	4262.2
42.5°	4708.9	4649.9	4611.1	4666.5	4840.0	5019.0	5140.9	5115.0	5297.8	5260.9	4936.0
45°	5052.3	5087.3	5030.1	5122.4	5185.2	5281.2	5277.5	5332.8	5565.4	5740.8	5443.6
47.5°	5373.5	5395.6	5423.3	5486.1	5622.6	5637.4	5606.0	5582.0	5903.2	6084.1	5836.8
50°	5565.4	5585.7	5714.9	5827.5	6082.3	6115.5	6134.0	6073.1	6290.9	6311.2	6207.8
52.5°	5513.7	5535.9	5716.8	6087.8	6493.9	6798.5	6743.1	6639.7	6626.8	6706.2	6551.1
55°	5056.0	5035.6	5284.8	5862.6	6623.1	7354.1	7361.5	7252.6	7044.0	6990.5	6499.5
56°	4666.5	4587.1	4904.6	5602.3	6457.0	7306.1	7389.2	7272.9	7077.2	6837.3	6180.1
57.5°	3822.9	3898.6	4214.2	4792.0	5882.9	6960.9	7008.9	6981.2	6833.6	6431.2	5438.1
60°	2108.0	2240.9	2519.7	3226.7	4188.4	5342.1	5380.8	5606.0	5633.7	4924.9	3741.7
62.5°	895.3	880.5	1170.3	1690.9	2384.9	3224.8	3296.8	3527.5	3570.0	2839.0	1877.3
65°	363.6	383.9	529.8	851.0	1260.8	1469.3	1570.9	1646.6	1786.8	1172.2	692.2
67.5°	240.0	238.1	312.0	485.5	679.3	655.3	655.3	692.2	640.5	478.1	299.0
70°	171.7	177.2	223.4	336.0	422.7	313.8	300.9	288.0	326.7	315.7	241.8
72.5°	112.6	120.0	149.5	201.2	219.7	171.7	171.7	206.7	269.5	254.7	197.5
75°	73.8	75.7	92.3	116.3	108.9	88.6	97.8	138.4	195.7	188.3	140.3
77.5°	49.8	51.7	62.8	75.7	60.9	49.8	53.5	70.1	96.0	96.0	73.8
80°	18.5	20.3	25.8	24.0	27.7	35.1	38.8	48.0	57.2	57.2	49.8
82.5°	0.0	1.8	5.5	12.9	20.3	27.7	31.4	36.9	42.5	48.0	46.1
85°	0.0	1.8	5.5	9.2	14.8	16.6	18.5	12.9	11.1	11.1	9.2
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7	1.8	1.8
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°	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4	1936.4
2.5°	1936.4	1934.5	1934.5	1929.0	1940.1	1934.5	1938.2	1936.4	1912.4	1930.8	1917.9
5°	1956.7	1969.6	1949.3	1945.6	1930.8	1936.4	1936.4	1917.9	1934.5	1932.7	1929.0
7.5°	2008.4	1986.2	1964.1	1941.9	1938.2	1932.7	1912.4	1905.0	1917.9	1903.1	1925.3
10°	2030.5	2034.2	2001.0	1971.4	1943.7	1905.0	1877.3	1860.7	1840.4	1862.5	1875.4
12.5°	2132.0	2095.1	2037.9	1991.7	1897.6	1858.8	1831.1	1823.8	1858.8	1866.2	1853.3
15°	2167.1	2161.6	2087.7	1984.4	1886.5	1840.4	1845.9	1831.1	1834.8	1816.4	1820.1
17.5°	2239.1	2176.3	2089.6	1960.4	1884.7	1873.6	1840.4	1781.3	1748.1	1733.3	1746.2
20°	2318.5	2257.6	2132.0	1969.6	1901.3	1871.8	1762.8	1690.9	1622.6	1585.6	1587.5
22.5°	2388.6	2312.9	2113.6	1973.3	1916.1	1794.2	1663.2	1521.0	1436.1	1378.9	1380.7
25°	2473.5	2366.5	2121.0	1980.7	1877.3	1670.6	1482.3	1343.8	1242.3	1203.5	1216.5
27.5°	2521.5	2399.7	2161.6	1997.3	1775.8	1495.2	1292.1	1162.9	1103.9	1085.4	1083.6
30°	2665.5	2473.5	2211.4	1964.1	1605.9	1306.9	1118.6	1039.2	982.0	965.4	969.1
32.5°	2879.6	2608.3	2276.0	1877.3	1432.4	1138.9	1006.0	947.0	893.4	862.0	858.3
35°	3058.7	2839.0	2344.3	1742.5	1231.2	1009.7	926.6	852.8	771.6	736.5	727.3
37.5°	3400.2	3099.3	2329.5	1539.5	1039.2	913.7	841.7	751.3	681.1	633.1	627.6
40°	3854.3	3403.9	2257.6	1292.1	897.1	828.8	751.3	664.5	577.8	537.2	533.5
42.5°	4406.2	3776.7	2126.5	1041.1	755.0	743.9	673.8	574.1	496.6	467.0	468.9
45°	4854.8	4096.1	1993.6	836.2	649.8	660.8	599.9	505.8	452.2	428.3	428.3
47.5°	5253.5	4312.1	1849.6	690.4	551.9	577.8	524.2	468.9	422.7	404.3	400.6
50°	5637.4	4531.7	1705.6	559.3	470.7	496.6	491.0	446.7	409.8	387.6	389.5
52.5°	5877.4	4566.8	1522.9	457.8	411.6	441.2	459.6	419.0	378.4	365.5	361.8
55°	5583.9	4114.5	1181.4	376.6	348.9	387.6	422.7	376.6	345.2	323.0	321.2
56°	5188.9	3678.9	987.6	347.0	330.4	372.9	409.8	360.0	324.9	312.0	302.7
57.5°	4393.3	3010.7	729.1	308.3	306.4	347.0	389.5	343.3	302.7	291.7	291.7
60°	2739.3	1694.5	441.2	258.4	265.8	308.3	350.7	306.4	269.5	269.5	275.0
62.5°	1247.8	705.1	267.7	219.7	228.9	265.8	312.0	276.9	256.6	276.9	280.6
65°	424.6	304.6	193.8	175.4	180.9	219.7	267.7	280.6	278.7	291.7	299.0
67.5°	238.1	195.7	162.4	145.8	142.1	162.4	219.7	280.6	269.5	264.0	267.7
70°	201.2	166.1	144.0	129.2	123.7	131.1	169.8	212.3	190.1	184.6	180.9
72.5°	162.4	138.4	125.5	116.3	99.7	84.9	77.5	81.2	90.4	96.0	105.2
75°	114.4	105.2	105.2	94.1	72.0	53.5	42.5	35.1	24.0	16.6	18.5
77.5°	64.6	64.6	66.5	57.2	46.1	35.1	25.8	18.5	9.2	3.7	1.8
80°	44.3	48.0	51.7	46.1	38.8	31.4	22.2	12.9	5.5	0.0	0.0
82.5°	44.3	49.8	53.5	46.1	38.8	29.5	22.2	12.9	5.5	1.8	0.0
85°	9.2	11.1	12.9	14.8	22.2	22.2	16.6	11.1	5.5	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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)