

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: P533913

Luminaire Tested: **GALN-SA9B-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31372 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

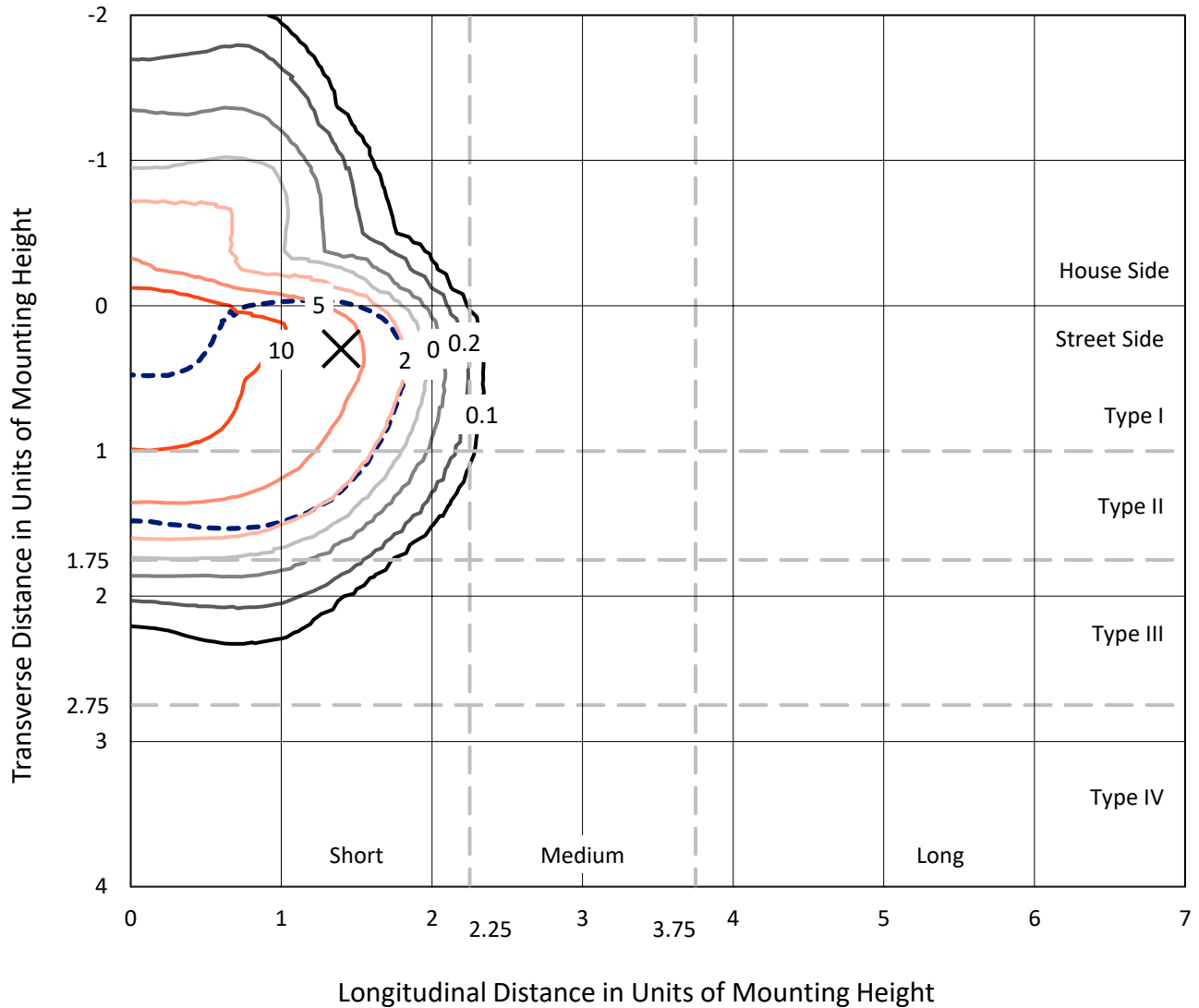
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533913
 CATALOG NUMBER: GALN-SA9B-760-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

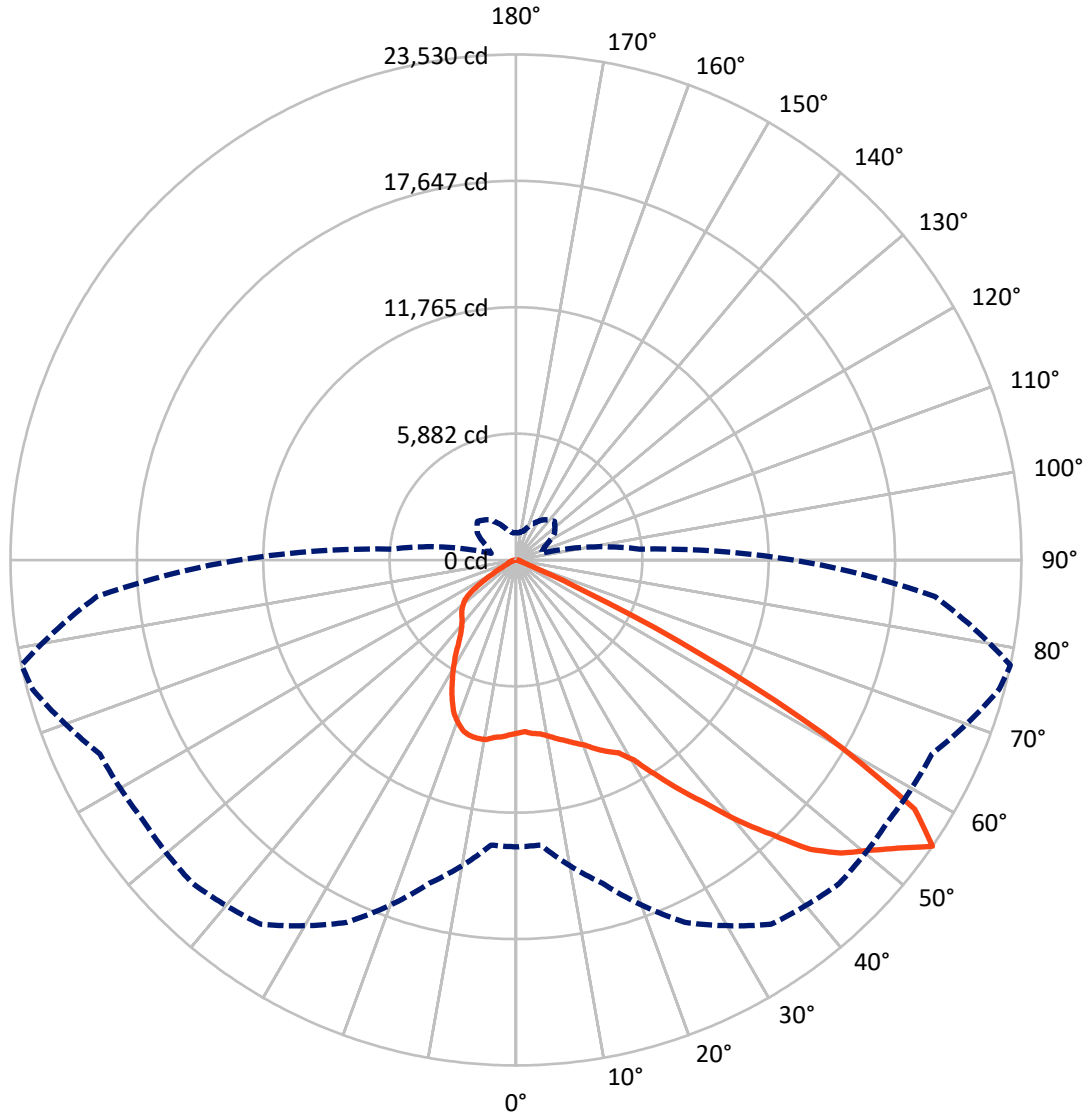
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P533913
CATALOG NUMBER: GALN-SA9B-760-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5827.0	0.0	5827.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25545.0	0.0	25545.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	31372.0	0.0	31372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.2	2.3
10°-20°	1903.4	6.1
20°-30°	3336.3	10.6
30°-40°	5501.2	17.5
40°-50°	8004.9	25.5
50°-60°	9070.4	28.9
60°-70°	2593.4	8.3
70°-80°	201.4	0.6
80°-90°	41.9	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°	31372.0	100.0
0°-180°	31372.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533913

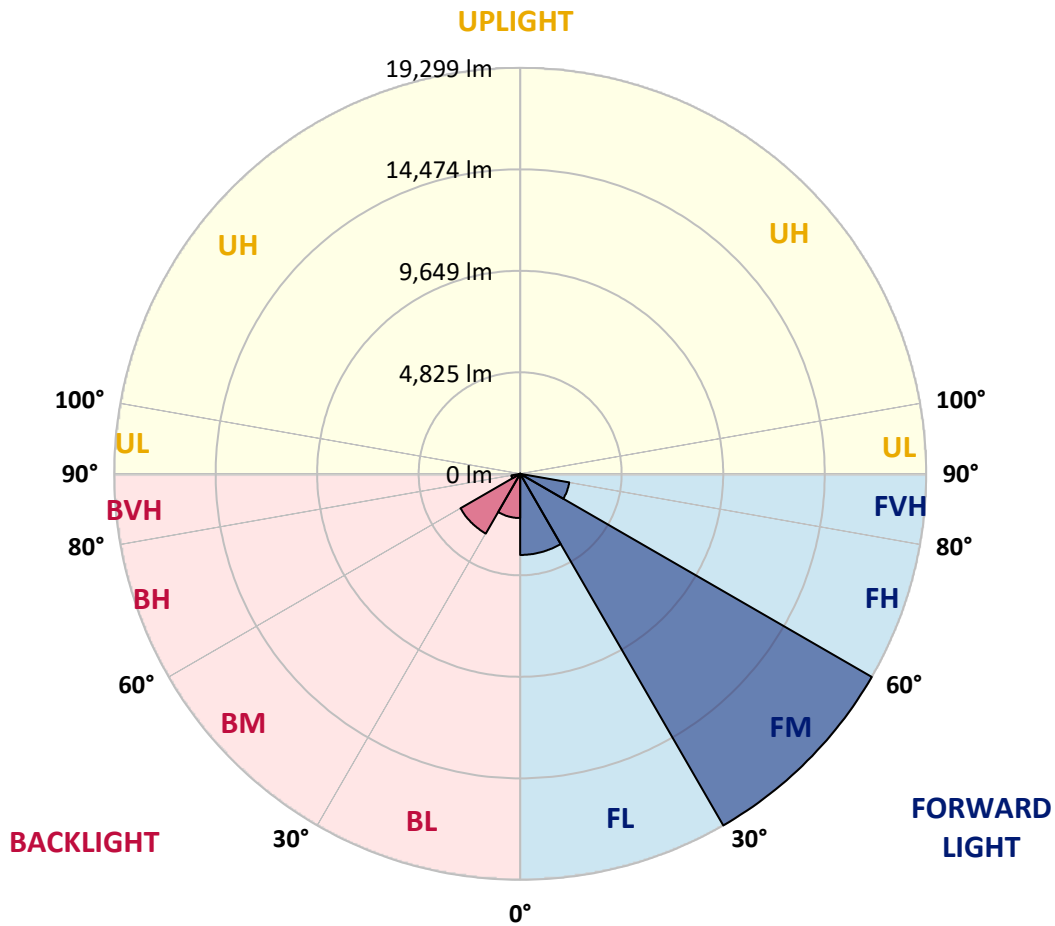
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3856.5	12.3			
FM (30°-60°)	19298.7	61.5			
FH (60°-80°)	2369.4	7.6			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	2102.4	6.7	B3/2500		
BM (30°-60°)	3277.8	10.4	B3/5000		
BH (60°-80°)	425.3	1.4	B1/500		G1/500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P533913

CATALOG NUMBER: GALN-SA9B-760-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8
2.5°	7583.4	7656.3	7667.5	7757.3	7751.7	7903.1	7948.0	7953.6	8054.5	8004.1	8133.1
5°	7370.2	7331.0	7314.2	7471.2	7516.1	7650.7	7762.9	7830.2	8037.7	8110.6	8245.2
7.5°	7179.5	7179.5	7190.8	7331.0	7314.2	7488.0	7605.8	7813.4	8116.2	8177.9	8340.6
10°	6994.4	6927.1	7011.3	7157.1	7280.5	7359.0	7605.8	7802.1	8155.5	8335.0	8559.4
12.5°	6899.1	6932.7	6944.0	7050.5	7185.1	7420.7	7555.3	7880.7	8436.0	8542.5	8783.7
15°	7499.2	7431.9	7269.3	7173.9	7286.1	7398.3	7734.8	8065.8	8581.8	8733.2	9002.5
17.5°	8194.8	8138.7	8004.1	7746.0	7493.6	7701.2	7964.8	8267.7	8738.8	8963.2	9361.4
20°	9103.4	9013.7	8879.1	8374.3	8155.5	7931.1	8211.6	8570.6	8996.9	9198.8	9608.2
22.5°	10186.0	10186.0	9883.1	9271.7	8817.4	8604.2	8722.0	8929.5	9282.9	9557.8	9961.6
25°	11313.4	11279.7	11004.9	10371.1	9602.6	9350.2	9484.8	9630.7	9726.0	9877.5	10146.7
27.5°	12603.5	12407.1	12059.4	11358.2	10679.6	10191.6	10337.4	10208.4	10090.6	10169.1	10556.2
30°	13478.5	13601.9	13158.7	12485.7	11846.2	11302.2	11330.2	11218.0	10679.6	10791.7	11021.7
32.5°	14387.1	14465.6	14218.8	13848.7	13209.2	12575.4	12345.4	12250.1	11846.2	11896.7	11672.4
35°	15144.3	15295.8	15077.0	14914.4	14729.3	14218.8	13585.0	13893.5	13242.9	13119.5	12536.1
37.5°	15839.9	15795.0	16053.0	15884.7	15845.5	15486.5	14791.0	14852.7	14415.2	14387.1	13714.0
40°	16462.5	16473.7	16827.0	16905.6	16748.5	16109.1	15099.5	15587.4	15940.8	15974.5	15110.7
42.5°	16978.5	17129.9	17432.8	18066.6	17831.0	16765.3	15419.2	15952.0	17264.5	17472.1	16434.4
45°	17427.2	17735.7	18111.5	18678.0	18543.4	17696.4	16215.7	16703.6	18678.0	19222.1	17679.6
47.5°	17455.2	17859.1	18268.6	19109.9	19278.2	18195.6	17040.2	17892.7	19799.8	20388.8	18588.3
50°	17343.1	17556.2	18375.1	19289.4	19670.8	19008.9	18195.6	18891.2	20888.0	21258.2	19048.2
52.5°	16013.7	16176.4	17819.8	19457.7	20377.5	19928.8	19726.9	20282.2	21998.5	22273.4	19480.1
55°	13349.4	13321.4	15581.8	18610.7	20702.9	21291.8	21168.4	21364.7	23283.0	23529.8	19586.7
57.5°	9131.5	9641.9	11593.8	15497.7	18711.7	20972.1	21101.1	20775.8	21785.4	21880.8	17073.8
60°	4924.7	5137.9	6708.4	10343.0	14246.9	17090.7	17427.2	16838.3	16759.7	16490.5	12188.4
62.5°	1957.5	2064.1	2955.9	5121.0	7762.9	10387.9	11111.5	10870.3	10354.2	9647.5	6310.1
65°	931.1	998.4	1469.6	2395.0	3443.9	4330.2	5053.7	5278.1	3892.7	3505.6	2080.9
67.5°	633.8	684.3	1071.3	1368.6	1228.4	1284.5	1671.5	1553.7	914.3	779.7	577.7
70°	482.4	516.0	858.2	931.1	549.7	387.0	431.9	403.8	375.8	381.4	375.8
72.5°	342.1	370.2	628.2	549.7	241.2	179.5	230.0	274.8	274.8	274.8	269.2
75°	207.5	235.6	364.6	213.1	95.4	95.4	145.8	185.1	196.3	201.9	190.7
77.5°	106.6	134.6	123.4	61.7	61.7	72.9	106.6	129.0	140.2	140.2	134.6
80°	22.4	22.4	22.4	33.7	61.7	78.5	106.6	117.8	134.6	134.6	123.4
82.5°	0.0	5.6	16.8	33.7	56.1	72.9	101.0	117.8	134.6	140.2	129.0
85°	0.0	5.6	11.2	22.4	39.3	44.9	39.3	33.7	33.7	33.7	33.7
87.5°	0.0	0.0	5.6	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533913

CATALOG NUMBER: GALN-SA9B-760-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8	8065.8
2.5°	8144.3	8161.1	8133.1	8127.5	8105.0	8172.3	8009.7	7970.4	8071.4	7976.0	7998.5
5°	8250.9	8290.1	8239.6	8155.5	8032.1	7841.4	7678.7	7465.6	7364.6	7291.7	7280.5
7.5°	8329.4	8357.4	8306.9	8037.7	7667.5	7185.1	6826.2	6562.5	6355.0	6293.3	6192.3
10°	8649.1	8654.7	8402.3	7807.7	7084.2	6450.4	5900.7	5496.8	5289.3	5160.3	5104.2
12.5°	8862.2	8851.0	8340.6	7353.4	6388.7	5547.3	4919.1	4431.1	4240.4	4178.7	4139.5
15°	9131.5	9069.8	8194.8	6887.9	5491.2	4582.6	4016.1	3679.5	3662.7	3623.4	3662.7
17.5°	9344.6	9170.7	7981.6	6040.9	4633.0	3774.9	3404.7	3427.1	3472.0	3511.2	3516.9
20°	9692.4	9333.4	7493.6	5300.5	3836.6	3236.4	3230.8	3331.8	3443.9	3488.8	3533.7
22.5°	9956.0	9400.7	6972.0	4509.6	3185.9	3017.6	3113.0	3264.4	3348.6	3393.5	3460.8
25°	10051.3	9215.6	6276.5	3718.8	2871.8	2916.7	3062.5	3163.5	3270.1	3320.5	3292.5
27.5°	10146.7	9120.3	5446.4	3062.5	2703.5	2849.4	2972.8	3073.7	3107.4	3174.7	3219.6
30°	10376.7	8789.3	4700.4	2647.5	2619.4	2804.5	2894.3	2927.9	3017.6	3056.9	3056.9
32.5°	10561.8	8660.3	3909.5	2451.1	2608.2	2826.9	2838.2	2838.2	2849.4	2821.3	2810.1
35°	10943.2	8217.2	3202.7	2333.3	2602.6	2832.6	2860.6	2765.2	2507.2	2406.3	2378.2
37.5°	11414.3	7931.1	2681.1	2305.3	2641.8	2899.9	2944.7	2585.8	2249.2	2086.6	2058.5
40°	11986.5	7729.2	2339.0	2294.1	2731.6	3056.9	2922.3	2445.5	2008.0	1772.4	1761.2
42.5°	12653.9	7544.1	2109.0	2288.5	2843.8	3219.6	2899.9	2327.7	1761.2	1604.2	1626.6
45°	13186.8	7443.2	1951.9	2249.2	2883.0	3314.9	2916.7	2120.2	1660.3	1559.3	1570.5
47.5°	13601.9	7230.0	1822.9	2181.9	2877.4	3348.6	2765.2	2036.1	1609.8	1637.8	1665.9
50°	13613.1	6944.0	1660.3	2036.1	2793.3	3286.9	2591.4	1957.5	1598.6	1716.4	1772.4
52.5°	13461.6	6540.1	1486.4	1828.5	2597.0	3073.7	2434.3	1923.9	1548.1	1536.9	1604.2
55°	12923.2	5782.9	1194.7	1480.8	2193.1	2535.3	2294.1	1862.2	1396.6	1267.6	1278.9
57.5°	10444.0	4145.1	880.6	1060.1	1553.7	1856.6	2069.7	1834.1	1256.4	1076.9	1082.5
60°	6467.2	2350.2	645.0	723.6	959.1	1127.4	1677.1	1705.1	1121.8	908.7	897.4
62.5°	3320.5	1161.1	499.2	510.4	588.9	661.9	1149.8	1430.3	1015.2	863.8	863.8
65°	1110.6	572.1	437.5	392.6	392.6	409.5	695.5	992.8	858.2	723.6	723.6
67.5°	476.8	426.3	381.4	342.1	314.1	297.3	392.6	577.7	639.4	549.7	527.2
70°	370.2	359.0	330.9	286.1	246.8	224.4	230.0	297.3	364.6	353.4	342.1
72.5°	274.8	274.8	263.6	224.4	190.7	162.7	151.4	157.1	173.9	179.5	185.1
75°	190.7	196.3	196.3	173.9	140.2	117.8	101.0	84.1	67.3	56.1	50.5
77.5°	129.0	134.6	145.8	129.0	106.6	78.5	61.7	44.9	28.0	11.2	11.2
80°	112.2	129.0	140.2	129.0	112.2	84.1	61.7	33.7	16.8	0.0	0.0
82.5°	117.8	129.0	145.8	123.4	106.6	78.5	61.7	39.3	16.8	5.6	0.0
85°	28.0	28.0	33.7	39.3	50.5	56.1	44.9	28.0	16.8	5.6	0.0
87.5°	11.2	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	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)