

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: P534161

Luminaire Tested: **GALN-SA9C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27400 lumens  
Efficiency: N/A  
Efficacy: 57.0 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

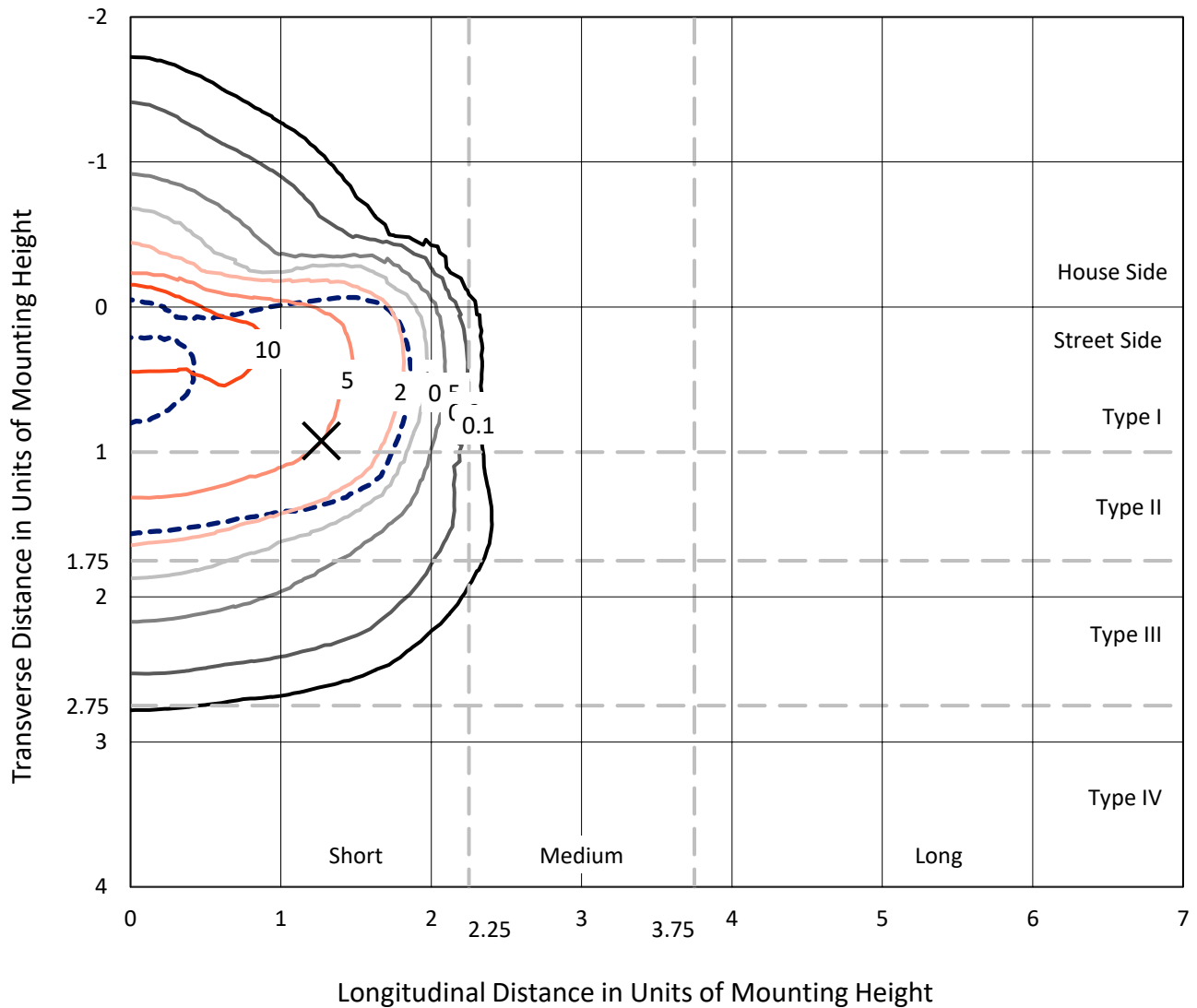
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

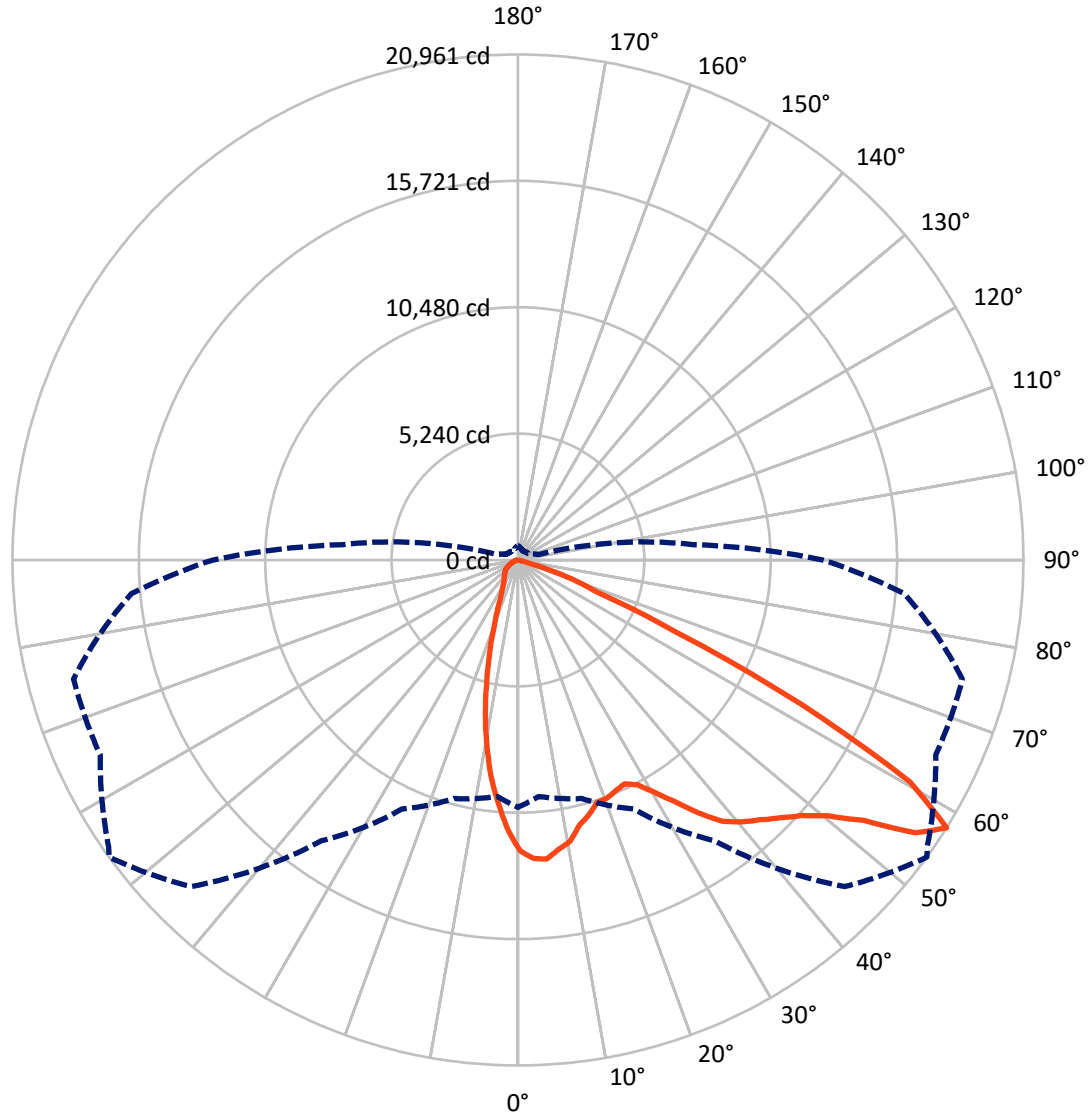
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3872.1	0.0	3872.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23527.9	0.0	23527.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	27400.0	0.0	27400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1010.1	3.7
10°-20°	2156.4	7.9
20°-30°	2857.7	10.4
30°-40°	4153.0	15.2
40°-50°	6158.4	22.5
50°-60°	7700.8	28.1
60°-70°	3037.6	11.1
70°-80°	302.4	1.1
80°-90°	23.5	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°	27400.0	100.0
0°-180°	27400.0	100.0

**Coefficient of Utilization**

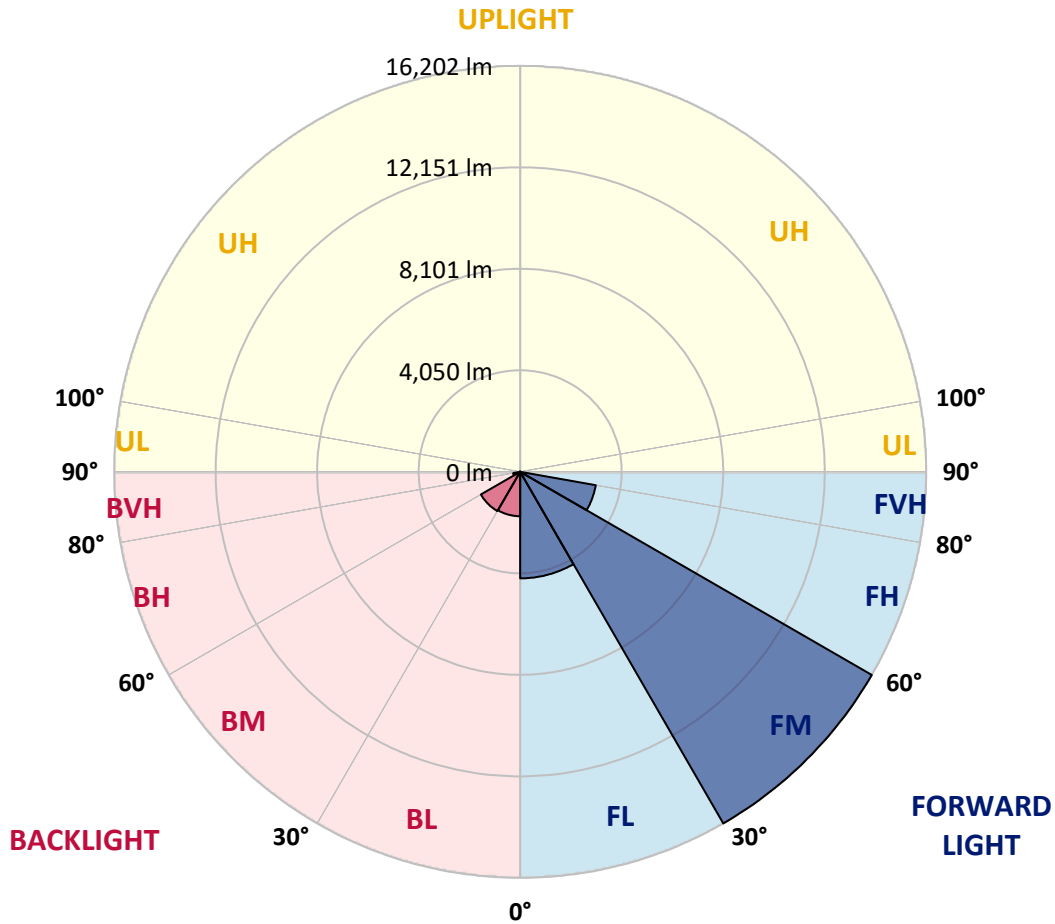


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4253.3	15.5			
FM (30°-60°)	16201.6	59.1			
FH (60°-80°)	3062.4	11.2			G2/5000
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	1770.9	6.5	B3/2500		
BM (30°-60°)	1810.7	6.6	B2/2500		
BH (60°-80°)	277.7	1.0	B1/500		G1/500
BVH (80°-90°)	12.8	0.0			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1
2.5°	12773.2	12640.7	12650.9	12605.0	12543.9	12589.8	12391.1	12436.9	12431.8	12161.8	11983.5
5°	12452.2	12594.9	12447.1	12569.4	12452.2	12579.6	12457.3	12365.6	12217.8	12019.1	11687.9
7.5°	11907.0	11769.5	11810.2	11963.1	11988.5	12273.9	12121.0	12238.2	12177.1	11784.7	11331.3
10°	10811.6	10781.0	10984.8	11188.6	11438.3	11744.0	11861.2	11794.9	11749.1	11601.3	10995.0
12.5°	9970.9	10057.5	10052.4	10388.7	10811.6	10984.8	11290.5	11280.3	11535.1	11260.0	10679.1
15°	9171.0	9216.9	9430.9	9639.8	10108.5	10602.7	10979.7	11030.7	11336.4	11142.8	10434.6
17.5°	8681.9	8615.7	8783.8	9033.4	9512.4	10159.4	10577.2	10699.5	11117.3	11076.5	10154.3
20°	8197.9	8197.9	8335.4	8630.9	9069.1	9797.7	10541.6	10505.9	11117.3	11000.1	9853.7
22.5°	8034.8	8116.3	8152.0	8376.2	8895.9	9522.6	10388.7	10455.0	11203.9	10964.5	9721.3
25°	8259.0	8152.0	8162.2	8340.5	8829.6	9390.1	10276.6	10424.4	11361.9	11142.8	9614.3
27.5°	8294.7	8401.7	8432.2	8554.5	8880.6	9430.9	10556.9	10857.5	11754.2	11560.6	9644.8
30°	8605.5	8712.5	8707.4	8916.3	9140.4	9762.0	11183.5	11244.7	12564.3	12085.4	9833.4
32.5°	8982.5	9094.6	9130.3	9374.8	9553.1	10368.3	11947.8	12105.7	13343.8	12910.7	10327.6
35°	9451.2	9410.5	9573.5	9818.1	10200.2	11254.9	12880.2	13145.1	14184.5	13980.7	10837.1
37.5°	10037.2	9986.2	10144.2	10541.6	11061.3	12304.4	13741.2	13914.5	14795.9	14974.2	11779.7
40°	10449.9	10470.2	10949.2	11484.1	12034.4	13303.1	14286.4	14454.5	15223.9	15901.5	12493.0
42.5°	11137.7	11265.1	11840.8	12493.0	13068.7	14052.0	14729.7	14892.7	15422.6	16645.4	13455.9
45°	12136.3	12080.3	12717.1	13445.7	14082.6	14831.6	15254.4	15198.4	15539.8	17384.2	14062.2
47.5°	13420.2	13430.4	13853.3	14474.9	15137.3	15509.2	15840.4	15641.7	15784.3	18163.7	14872.3
50°	14296.6	14373.0	14714.4	15351.3	15682.4	16253.1	16676.0	16553.7	16507.8	18632.4	15381.8
52.5°	14520.8	14750.0	14933.5	15728.3	16502.7	17404.5	17944.6	18204.5	17389.3	18790.4	16028.9
55°	12829.2	13033.0	13680.1	14770.4	16813.5	19228.6	19972.4	19977.5	18540.7	19493.5	16482.3
57.5°	10256.2	9843.6	10241.0	11397.5	14215.1	19152.1	20960.9	20721.4	19116.5	19080.8	16090.0
60°	7092.2	6990.3	7015.8	7474.4	9838.5	15234.1	18678.3	18989.1	17603.2	16538.4	12737.5
62.5°	5619.8	5533.2	5421.1	5370.1	6108.9	9492.0	13175.7	13613.9	12309.5	10725.0	7550.8
65°	4402.1	4351.1	4366.4	4570.2	4565.1	5385.4	7204.3	7026.0	5624.9	4157.5	2374.3
67.5°	2970.4	3046.8	3108.0	3724.4	4040.3	3749.9	3479.9	3378.0	1829.1	769.3	524.8
70°	1671.2	1681.4	1747.6	2328.4	3067.2	2909.2	2399.7	2399.7	912.0	280.2	300.6
72.5°	912.0	881.4	820.3	1003.7	1365.5	1385.8	1070.0	932.4	270.0	183.4	168.1
75°	443.3	438.2	377.0	310.8	295.5	244.6	188.5	173.2	122.3	117.2	101.9
77.5°	91.7	86.6	45.9	45.9	51.0	56.0	71.3	71.3	86.6	86.6	71.3
80°	0.0	0.0	5.1	20.4	35.7	51.0	61.1	61.1	71.3	71.3	56.0
82.5°	0.0	0.0	5.1	15.3	30.6	45.9	56.0	61.1	71.3	76.4	61.1
85°	0.0	0.0	0.0	10.2	25.5	35.7	30.6	30.6	25.5	20.4	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1	12070.1
2.5°	11891.7	11881.6	11647.2	11514.7	11275.2	11066.4	10898.2	10775.9	10775.9	10699.5	10628.2
5°	11555.5	11468.9	10969.5	10648.6	10195.1	9858.8	9629.6	9451.2	9171.0	9247.4	8946.8
7.5°	11137.7	10918.6	10256.2	9767.1	9140.4	8661.5	8172.4	7739.3	7321.5	7133.0	7234.9
10°	10689.3	10307.2	9415.6	8641.1	7861.6	6985.3	6414.6	5721.7	5293.7	5268.2	5156.1
12.5°	10215.5	9782.4	8697.2	7627.2	6603.1	5548.5	4677.2	4030.1	3739.7	3418.7	3479.9
15°	9858.8	9216.9	7897.3	6608.2	5247.9	4183.0	3306.7	2807.3	2532.2	2455.8	2430.3
17.5°	9471.6	8783.8	7082.1	5523.0	4116.8	3011.1	2379.4	2139.9	2032.9	2032.9	2017.6
20°	9069.1	8294.7	6272.0	4514.2	3087.6	2246.9	1905.5	1829.1	1824.0	1818.9	1818.9
22.5°	8804.2	7734.2	5538.3	3586.9	2328.4	1798.5	1655.9	1625.3	1645.7	1706.8	1706.8
25°	8523.9	7194.1	4728.2	2766.6	1803.6	1543.8	1462.3	1482.6	1533.6	1589.6	1569.3
27.5°	8238.6	6842.6	3963.9	2170.5	1477.6	1350.2	1319.6	1365.5	1421.5	1472.5	1457.2
30°	8172.4	6465.6	3240.4	1645.7	1268.7	1176.9	1197.3	1238.1	1294.1	1314.5	1334.9
32.5°	8274.3	6170.1	2654.5	1350.2	1105.6	1080.1	1080.1	1100.5	1136.2	1182.0	1166.8
35°	8564.7	6001.9	2099.1	1171.9	1013.9	988.4	983.3	1003.7	1024.1	1039.4	1024.1
37.5°	9008.0	5869.4	1717.0	1039.4	952.8	912.0	901.8	896.7	917.1	922.2	932.4
40°	9573.5	5940.8	1457.2	957.9	891.6	845.8	815.2	815.2	815.2	830.5	835.6
42.5°	10184.9	6037.6	1258.5	912.0	835.6	779.5	749.0	738.8	749.0	769.3	764.3
45°	10826.9	6226.1	1131.1	840.7	784.6	713.3	672.5	662.4	687.8	728.6	723.5
47.5°	11428.1	6496.1	1034.3	794.8	733.7	667.4	616.5	606.3	652.2	708.2	713.3
50°	12029.3	6964.9	998.6	759.2	698.0	621.6	575.7	565.5	616.5	687.8	703.1
52.5°	12722.2	7469.3	973.1	713.3	657.3	585.9	535.0	524.8	580.8	672.5	677.6
55°	13175.7	7897.3	952.8	631.8	580.8	529.9	489.1	484.0	545.2	626.7	647.1
57.5°	12645.8	7301.1	881.4	550.3	494.2	468.7	433.1	433.1	484.0	560.5	575.7
60°	9588.8	4804.6	626.7	443.3	417.8	402.5	387.2	387.2	428.0	484.0	489.1
62.5°	5614.7	2588.3	402.5	356.7	356.7	341.4	315.9	315.9	356.7	387.2	392.3
65°	1666.1	830.5	326.1	305.7	300.6	275.1	249.7	244.6	275.1	290.4	285.3
67.5°	478.9	382.1	270.0	254.8	249.7	208.9	193.6	188.5	193.6	183.4	178.3
70°	285.3	259.8	208.9	214.0	188.5	152.9	137.6	132.5	122.3	107.0	96.8
72.5°	157.9	157.9	152.9	163.0	132.5	101.9	86.6	71.3	56.0	45.9	40.8
75°	96.8	101.9	107.0	112.1	86.6	66.2	56.0	35.7	20.4	10.2	10.2
77.5°	66.2	71.3	76.4	81.5	71.3	61.1	45.9	25.5	5.1	0.0	0.0
80°	51.0	56.0	66.2	71.3	76.4	81.5	61.1	25.5	5.1	0.0	0.0
82.5°	56.0	61.1	76.4	71.3	71.3	71.3	56.0	25.5	5.1	0.0	0.0
85°	10.2	15.3	25.5	25.5	35.7	45.9	35.7	10.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)