

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: P533225

Luminaire Tested: **GALN-SA8C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533225
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-SA8C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 24406 lumens
Efficiency: N/A
Efficacy: 56.9 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

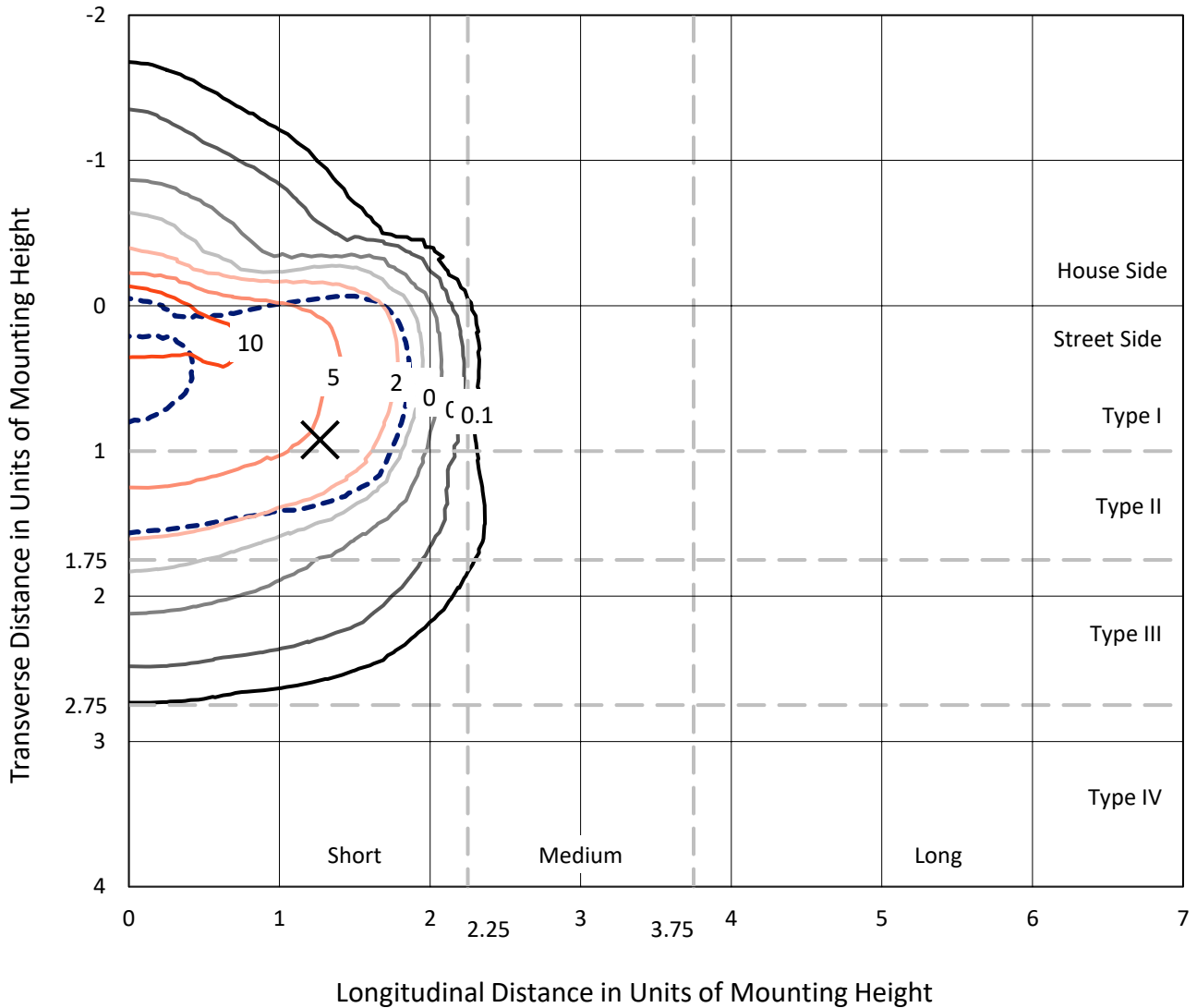
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

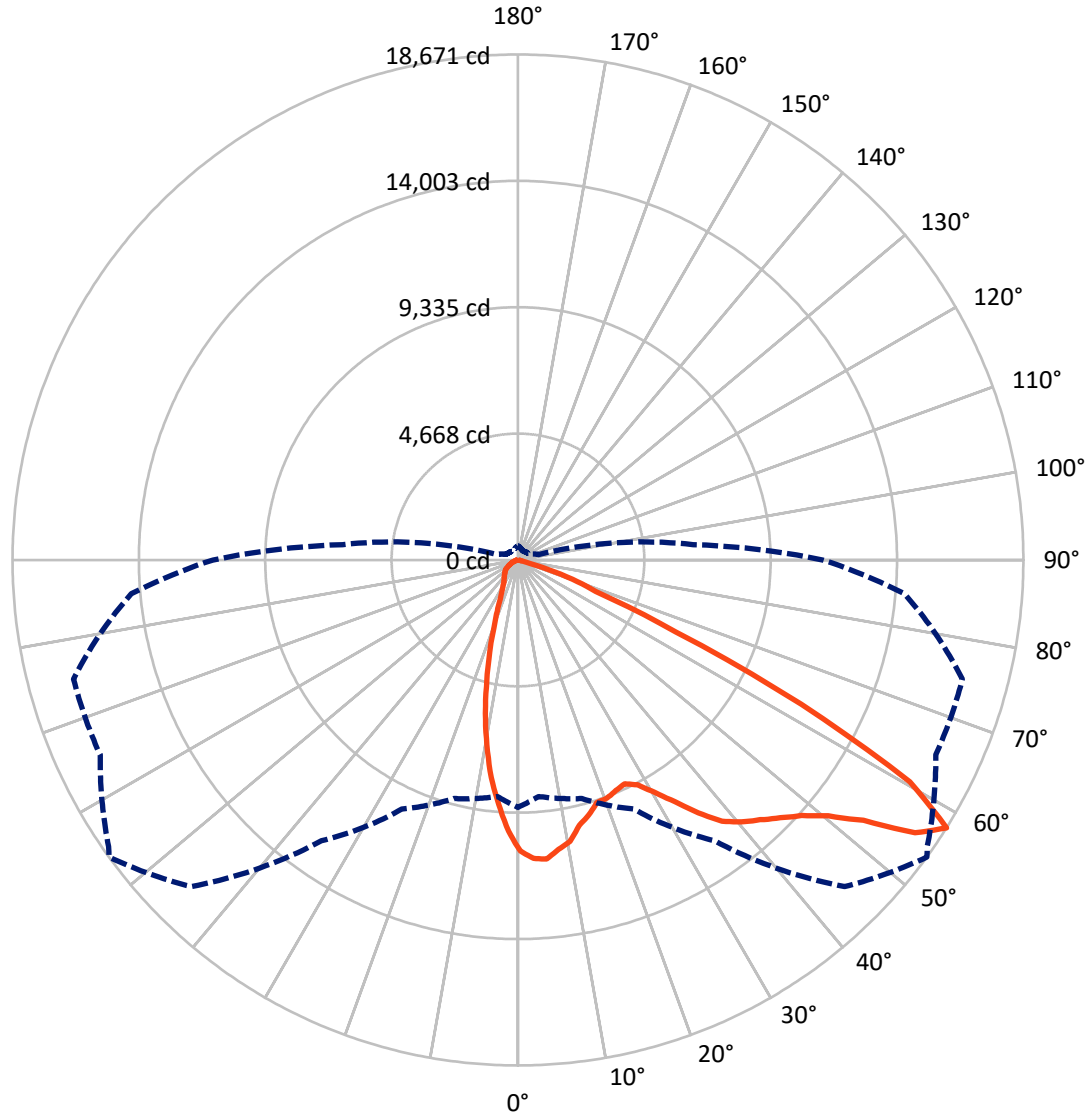
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8C-827-U-SL3-GRSBK

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
House Side	Lumens	3449.0	0.0	3449.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20957.0	0.0	20957.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	24406.0	0.0	24406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.7	3.7
10°-20°	1920.8	7.9
20°-30°	2545.4	10.4
30°-40°	3699.2	15.2
40°-50°	5485.5	22.5
50°-60°	6859.3	28.1
60°-70°	2705.7	11.1
70°-80°	269.4	1.1
80°-90°	20.9	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°	24406.0	100.0
0°-180°	24406.0	100.0

Coefficient of Utilization



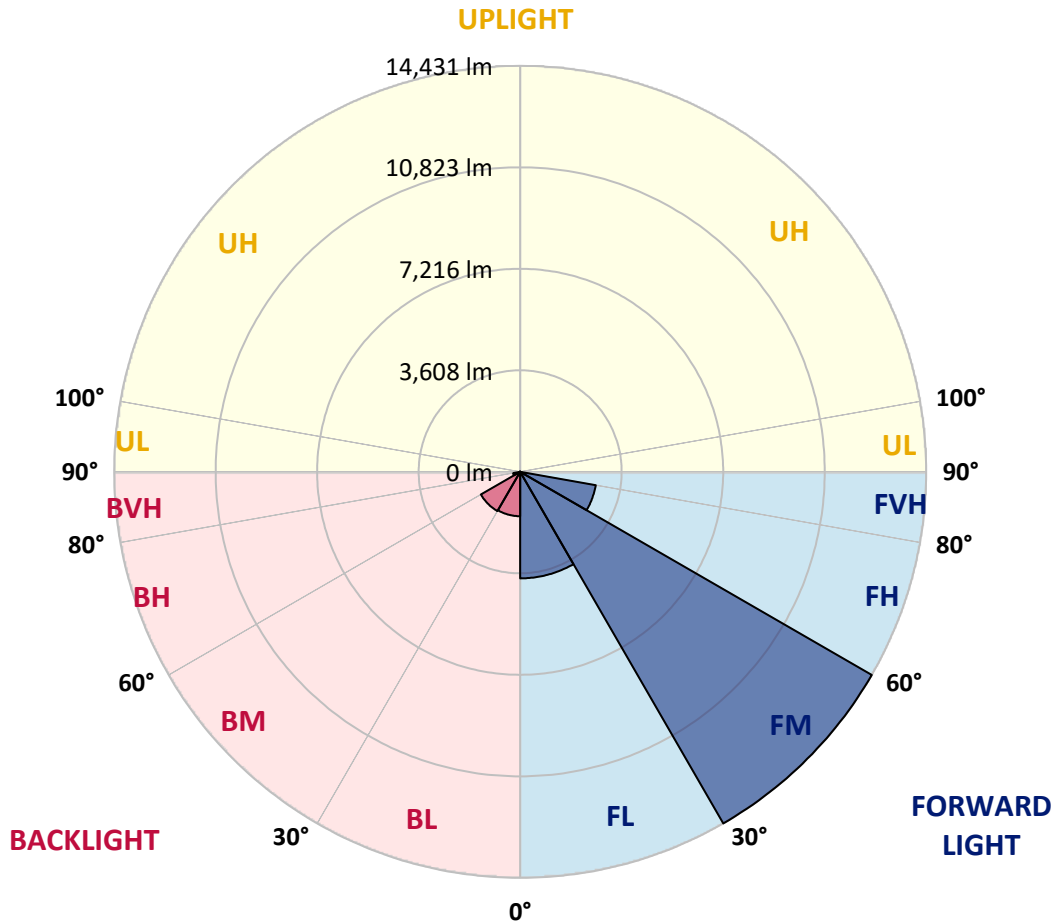
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3788.5	15.5			
FM (30°-60°)	14431.2	59.1			
FH (60°-80°)	2727.8	11.2			G2/5000
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	1577.4	6.5	B3/2500		
BM (30°-60°)	1612.8	6.6	B2/2500		
BH (60°-80°)	247.3	1.0	B1/500		G1/500
BVH (80°-90°)	11.4	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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CATALOG NUMBER: GALN-SA8C-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2
2.5°	11377.5	11259.5	11268.5	11227.7	11173.2	11214.1	11037.1	11077.9	11073.4	10832.9	10674.0
5°	11091.5	11218.6	11087.0	11195.9	11091.5	11205.0	11096.1	11014.4	10882.8	10705.8	10410.8
7.5°	10605.9	10483.4	10519.7	10655.9	10678.6	10932.7	10796.6	10900.9	10846.5	10497.0	10093.1
10°	9630.2	9603.0	9784.5	9966.1	10188.4	10460.7	10565.1	10506.1	10465.3	10333.7	9793.6
12.5°	8881.4	8958.6	8954.0	9253.5	9630.2	9784.5	10056.8	10047.7	10274.7	10029.6	9512.2
15°	8168.9	8209.7	8400.3	8586.4	9003.9	9444.1	9780.0	9825.4	10097.7	9925.2	9294.4
17.5°	7733.2	7674.2	7824.0	8046.4	8473.0	9049.3	9421.5	9530.4	9902.5	9866.2	9044.8
20°	7302.1	7302.1	7424.6	7687.8	8078.1	8727.1	9389.7	9357.9	9902.5	9798.1	8777.0
22.5°	7156.9	7229.5	7261.2	7460.9	7923.8	8482.0	9253.5	9312.5	9979.7	9766.4	8659.0
25°	7356.5	7261.2	7270.3	7429.2	7864.8	8364.0	9153.7	9285.3	10120.4	9925.2	8563.7
27.5°	7388.3	7483.6	7510.8	7619.8	7910.2	8400.3	9403.3	9671.1	10469.8	10297.3	8591.0
30°	7665.1	7760.4	7755.9	7942.0	8141.7	8695.3	9961.5	10016.0	11191.4	10764.8	8758.9
32.5°	8001.0	8100.8	8132.6	8350.4	8509.3	9235.4	10642.3	10782.9	11885.7	11500.0	9199.1
35°	8418.5	8382.2	8527.4	8745.3	9085.6	10025.0	11472.8	11708.7	12634.6	12453.0	9652.9
37.5°	8940.4	8895.0	9035.7	9389.7	9852.6	10959.9	12239.7	12394.0	13179.1	13338.0	10492.5
40°	9308.0	9326.2	9752.8	10229.3	10719.4	11849.4	12725.3	12875.1	13560.4	14164.0	11127.8
42.5°	9920.7	10034.1	10546.9	11127.8	11640.7	12516.6	13120.2	13265.4	13737.4	14826.5	11985.6
45°	10810.2	10760.2	11327.5	11976.5	12543.8	13210.9	13587.6	13537.7	13841.7	15484.6	12525.6
47.5°	11953.8	11962.9	12339.6	12893.2	13483.2	13814.5	14109.5	13932.5	14059.6	16178.9	13247.2
50°	12734.4	12802.5	13106.5	13673.8	13968.8	14477.1	14853.8	14744.9	14704.0	16596.5	13701.0
52.5°	12934.1	13138.3	13301.7	14009.7	14699.5	15502.7	15983.8	16215.3	15489.1	16737.2	14277.4
55°	11427.4	11608.9	12185.3	13156.5	14976.3	17127.4	17790.0	17794.6	16514.8	17363.4	14681.3
57.5°	9135.5	8767.9	9121.9	10152.1	12661.8	17059.4	18670.5	18457.2	17027.6	16995.8	14331.9
60°	6317.3	6226.5	6249.2	6657.6	8763.4	13569.4	16637.3	16914.1	15679.7	14731.2	11345.7
62.5°	5005.7	4928.6	4828.7	4783.3	5441.4	8454.8	11736.0	12126.3	10964.5	9553.1	6725.7
65°	3921.1	3875.7	3889.3	4070.8	4066.3	4797.0	6417.1	6258.3	5010.3	3703.2	2114.8
67.5°	2645.8	2713.9	2768.3	3317.5	3598.9	3340.2	3099.6	3008.9	1629.2	685.3	467.4
70°	1488.6	1497.6	1556.6	2074.0	2732.0	2591.4	2137.5	2137.5	812.4	249.6	267.8
72.5°	812.4	785.1	730.7	894.0	1216.3	1234.4	953.0	830.5	240.5	163.4	149.8
75°	394.8	390.3	335.8	276.8	263.2	217.8	167.9	154.3	108.9	104.4	90.8
77.5°	81.7	77.2	40.8	40.8	45.4	49.9	63.5	63.5	77.2	77.2	63.5
80°	0.0	0.0	4.5	18.2	31.8	45.4	54.5	54.5	63.5	63.5	49.9
82.5°	0.0	0.0	4.5	13.6	27.2	40.8	49.9	54.5	63.5	68.1	54.5
85°	0.0	0.0	0.0	9.1	22.7	31.8	27.2	27.2	22.7	18.2	9.1
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



REPORT NUMBER: P533225

CATALOG NUMBER: GALN-SA8C-827-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2	10751.2
2.5°	10592.3	10583.3	10374.5	10256.5	10043.2	9857.1	9707.4	9598.4	9598.4	9530.4	9466.8
5°	10292.8	10215.7	9770.9	9485.0	9081.1	8781.6	8577.3	8418.5	8168.9	8237.0	7969.2
7.5°	9920.7	9725.5	9135.5	8699.9	8141.7	7715.1	7279.4	6893.6	6521.5	6353.6	6444.3
10°	9521.3	9180.9	8386.7	7696.9	7002.6	6222.0	5713.7	5096.5	4715.3	4692.6	4592.7
12.5°	9099.2	8713.5	7746.8	6793.8	5881.6	4942.2	4166.1	3589.8	3331.1	3045.2	3099.6
15°	8781.6	8209.7	7034.3	5886.1	4674.4	3725.9	2945.3	2500.6	2255.5	2187.4	2164.8
17.5°	8436.7	7824.0	6308.2	4919.5	3666.9	2682.1	2119.4	1906.1	1810.8	1810.8	1797.2
20°	8078.1	7388.3	5586.6	4020.9	2750.2	2001.4	1697.3	1629.2	1624.7	1620.2	1620.2
22.5°	7842.1	6889.1	4933.1	3194.9	2074.0	1602.0	1474.9	1447.7	1465.9	1520.3	1520.3
25°	7592.5	6408.0	4211.5	2464.3	1606.5	1375.1	1302.5	1320.6	1366.0	1415.9	1397.8
27.5°	7338.4	6094.9	3530.8	1933.3	1316.1	1202.6	1175.4	1216.3	1266.2	1311.6	1297.9
30°	7279.4	5759.1	2886.3	1465.9	1130.0	1048.3	1066.5	1102.8	1152.7	1170.9	1189.0
32.5°	7370.2	5495.9	2364.4	1202.6	984.8	962.1	962.1	980.3	1012.0	1052.9	1039.3
35°	7628.8	5346.1	1869.8	1043.8	903.1	880.4	875.9	894.0	912.2	925.8	912.2
37.5°	8023.7	5228.1	1529.4	925.8	848.7	812.4	803.3	798.7	816.9	821.4	830.5
40°	8527.4	5291.6	1297.9	853.2	794.2	753.4	726.1	726.1	726.1	739.7	744.3
42.5°	9072.0	5377.9	1121.0	812.4	744.3	694.4	667.1	658.0	667.1	685.3	680.7
45°	9643.8	5545.8	1007.5	748.8	698.9	635.4	599.1	590.0	612.7	649.0	644.4
47.5°	10179.3	5786.3	921.3	708.0	653.5	594.5	549.1	540.1	580.9	630.8	635.4
50°	10714.9	6203.8	889.5	676.2	621.7	553.7	512.8	503.7	549.1	612.7	626.3
52.5°	11332.1	6653.1	866.8	635.4	585.4	521.9	476.5	467.4	517.4	599.1	603.6
55°	11736.0	7034.3	848.7	562.7	517.4	472.0	435.7	431.1	485.6	558.2	576.4
57.5°	11264.0	6503.3	785.1	490.1	440.2	417.5	385.8	385.8	431.1	499.2	512.8
60°	8541.0	4279.6	558.2	394.8	372.1	358.5	344.9	344.9	381.2	431.1	435.7
62.5°	5001.2	2305.4	358.5	317.7	317.7	304.1	281.4	281.4	317.7	344.9	349.4
65°	1484.0	739.7	290.4	272.3	267.8	245.1	222.4	217.8	245.1	258.7	254.1
67.5°	426.6	340.4	240.5	226.9	222.4	186.1	172.5	167.9	172.5	163.4	158.8
70°	254.1	231.5	186.1	190.6	167.9	136.1	122.5	118.0	108.9	95.3	86.2
72.5°	140.7	140.7	136.1	145.2	118.0	90.8	77.2	63.5	49.9	40.8	36.3
75°	86.2	90.8	95.3	99.8	77.2	59.0	49.9	31.8	18.2	9.1	9.1
77.5°	59.0	63.5	68.1	72.6	63.5	54.5	40.8	22.7	4.5	0.0	0.0
80°	45.4	49.9	59.0	63.5	68.1	72.6	54.5	22.7	4.5	0.0	0.0
82.5°	49.9	54.5	68.1	63.5	63.5	63.5	49.9	22.7	4.5	0.0	0.0
85°	9.1	13.6	22.7	22.7	31.8	40.8	31.8	9.1	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)