

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: P458233

Luminaire Tested: **GALN-SA9C-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38540 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

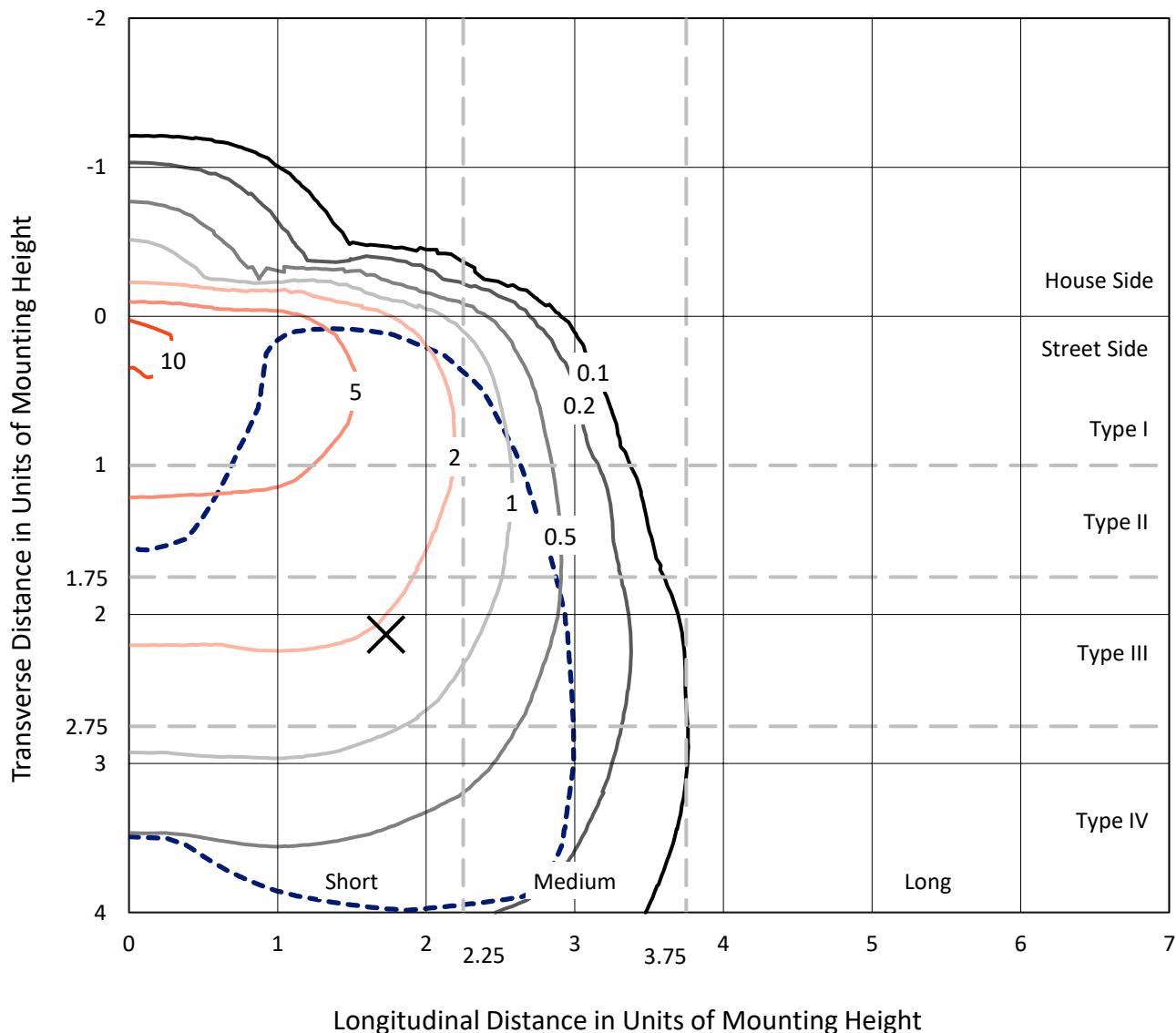
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

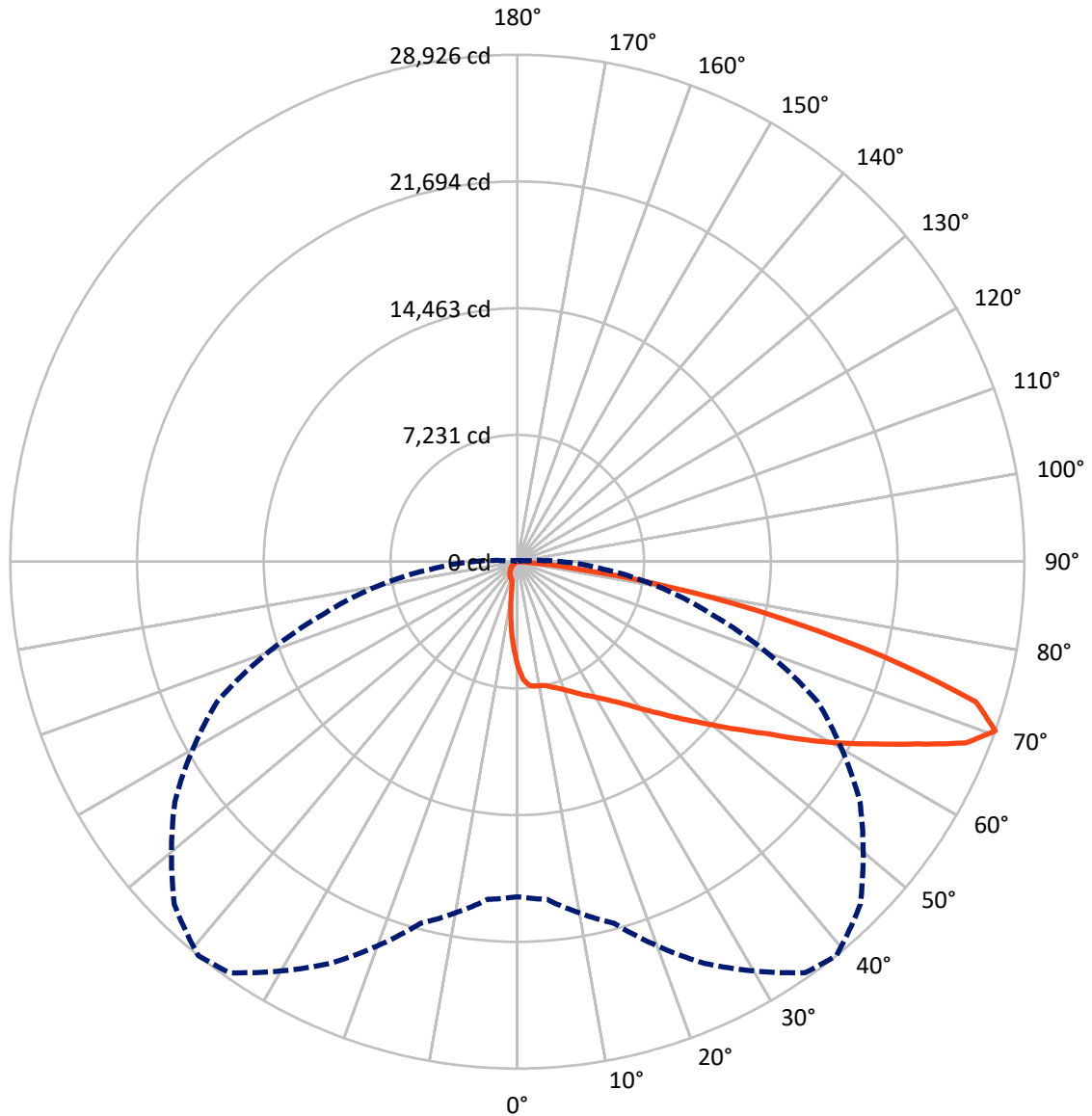
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2513.0	0.0	2513.0
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	36027.0	0.0	36027.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	38540.0	0.0	38540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.9	1.3
10°-20°	1332.9	3.5
20°-30°	2233.0	5.8
30°-40°	3463.1	9.0
40°-50°	5488.0	14.2
50°-60°	8044.6	20.9
60°-70°	10311.2	26.8
70°-80°	6479.2	16.8
80°-90°	675.0	1.8
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°	38540.0	100.0
0°-180°	38540.0	100.0

**Coefficient of Utilization**



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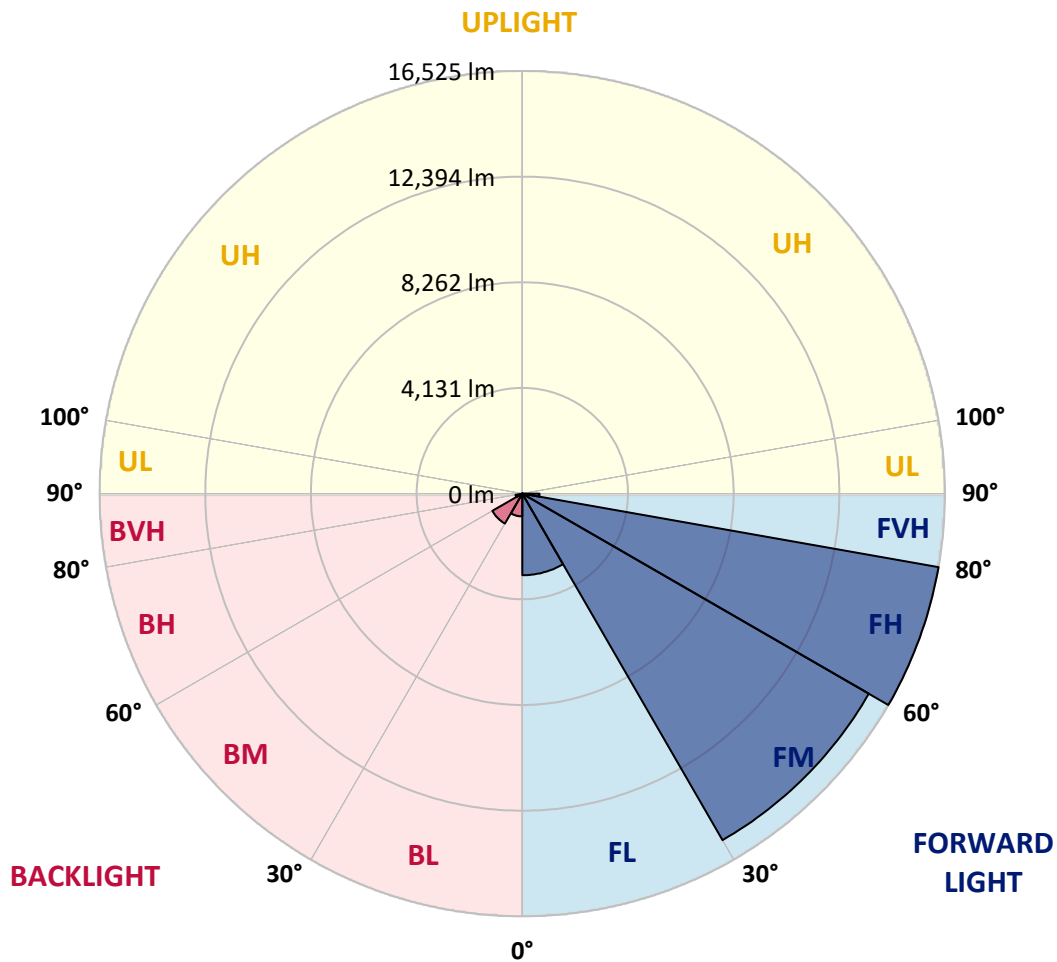
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3189.0	8.3			
FM (30°-60°)	15643.3	40.6			
FH (60°-80°)	16524.7	42.9			G5
FVH (80°-90°)	670.0	1.7			G4/750
BL (0°-30°)	889.8	2.3	B2/1000		
BM (30°-60°)	1352.4	3.5	B2/2500		
BH (60°-80°)	265.8	0.7	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6
2.5°	6948.5	6925.2	6894.1	6857.8	6754.3	6736.1	6674.0	6541.9	6383.9	6254.4	6075.7
5°	7277.4	7290.3	7267.0	7202.3	7127.2	7083.2	7005.5	6800.9	6596.3	6334.7	6042.0
7.5°	7352.5	7378.4	7349.9	7287.8	7215.2	7168.6	7106.5	6930.4	6692.1	6394.3	5992.8
10°	7344.7	7375.8	7357.7	7300.7	7241.1	7197.1	7129.8	6989.9	6798.3	6484.9	6008.4
12.5°	7331.8	7373.2	7370.6	7342.1	7292.9	7259.3	7217.8	7093.5	6914.8	6617.0	6093.8
15°	7295.5	7347.3	7393.9	7417.2	7419.8	7419.8	7368.0	7236.0	7065.0	6790.5	6205.2
17.5°	7311.1	7370.6	7487.2	7554.5	7601.1	7595.9	7541.6	7399.1	7210.1	6969.2	6321.8
20°	7406.9	7487.2	7650.3	7785.0	7831.6	7816.1	7743.6	7577.8	7362.9	7122.0	6435.7
22.5°	7642.6	7715.1	7919.7	8077.6	8111.3	8069.9	7966.3	7741.0	7546.7	7287.8	6573.0
25°	7994.8	8080.2	8269.3	8388.4	8388.4	8365.1	8220.1	7955.9	7753.9	7518.2	6751.7
27.5°	8422.1	8494.6	8681.1	8787.3	8725.1	8657.8	8512.7	8194.2	8000.0	7808.3	6966.6
30°	8854.6	8901.2	9098.0	9144.7	9079.9	8994.4	8839.1	8520.5	8349.6	8202.0	7277.4
32.5°	9263.8	9364.8	9527.9	9517.6	9429.5	9388.1	9245.7	8906.4	8810.6	8795.0	7712.5
35°	9673.0	9750.7	9895.7	9932.0	9854.3	9846.5	9742.9	9491.7	9494.3	9595.3	8391.0
37.5°	10025.2	10095.1	10266.0	10346.3	10361.9	10400.7	10359.3	10193.5	10429.2	10706.3	9289.7
40°	10320.4	10418.8	10636.4	10776.2	10936.8	11079.2	11087.0	11123.3	11597.2	12073.7	10462.9
42.5°	10550.9	10688.2	11004.1	11263.1	11630.9	11812.2	11957.2	12156.6	12954.3	13666.5	11845.8
45°	10851.3	11009.3	11403.0	11809.6	12384.5	12682.3	12884.4	13417.9	14549.6	15520.8	13265.1
47.5°	11348.6	11431.5	11832.9	12426.0	13182.2	13606.9	14000.6	14808.6	16261.5	17131.7	14446.0
50°	11988.3	12042.7	12345.7	13169.2	14148.2	14707.6	15425.0	16375.4	18038.1	18468.0	15114.2
52.5°	12695.3	12713.4	12941.3	13987.6	15230.7	15935.2	16738.0	17911.2	19485.8	19421.1	15557.0
55°	13516.3	13490.4	13684.6	14875.9	16512.7	17318.1	18253.1	19483.2	20741.9	20097.0	15810.9
57.5°	14456.4	14386.4	14575.5	16054.3	18154.6	19118.1	20068.5	20840.3	21715.6	20664.2	15932.6
60°	15440.5	15300.7	15526.0	17377.7	20089.2	21003.4	21793.3	22000.5	22741.2	21114.8	15722.8
62.5°	16225.2	16227.8	16647.4	18786.6	22078.2	22878.5	23298.0	23484.5	23624.3	21016.4	14619.5
65°	17450.2	17491.6	18162.4	20741.9	24380.6	25074.6	25362.1	24756.1	23663.2	19794.0	12962.0
67.5°	18714.0	18846.1	20073.7	23435.3	27040.3	27599.7	27229.4	25002.1	22606.5	17004.8	9828.4
70°	19125.8	19343.4	21366.0	25289.6	28635.6	28925.7	27672.2	23854.8	18897.9	11369.3	4946.6
72.5°	17525.3	17877.5	20622.7	24613.6	27617.8	27366.6	24758.7	20006.4	12014.2	4317.2	1509.9
75°	12358.6	12514.0	17139.4	20418.1	22212.9	21500.7	18833.2	12897.3	4941.4	1212.0	518.0
77.5°	6381.3	6306.2	10193.5	13547.3	15841.9	15103.8	12332.7	6676.6	1872.4	505.0	321.1
80°	3299.4	3353.8	4410.5	7098.7	9670.4	8898.6	6575.6	3094.8	997.1	279.7	246.0
82.5°	1849.1	1735.2	2535.4	3100.0	4521.8	3545.5	2522.5	2191.0	435.1	168.3	233.1
85°	336.7	352.2	1390.7	1675.6	1569.4	997.1	813.2	1463.2	126.9	93.2	163.2
87.5°	5.2	5.2	269.3	481.7	305.6	139.9	256.4	209.8	25.9	36.3	28.5
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°	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6	6013.6
2.5°	5985.1	5886.7	5702.8	5521.5	5291.0	5101.9	4975.0	4843.0	4708.3	4718.7	4749.7
5°	5881.5	5710.6	5348.0	4964.7	4596.9	4265.4	3939.1	3646.5	3527.3	3418.6	3423.7
7.5°	5777.9	5537.0	5006.1	4405.3	3848.5	3283.9	2874.7	2538.0	2359.3	2224.7	2185.8
10°	5731.3	5412.7	4692.8	3866.6	3076.7	2460.3	1934.6	1660.1	1447.7	1380.4	1398.5
12.5°	5752.0	5350.6	4410.5	3379.7	2439.6	1714.5	1346.7	1206.9	1160.2	1152.5	1147.3
15°	5790.8	5306.5	4133.4	2841.0	1792.2	1274.2	1131.8	1105.9	1100.7	1095.5	1098.1
17.5°	5842.6	5267.7	3838.1	2336.0	1375.2	1113.6	1072.2	1059.2	1056.6	1056.6	1056.6
20°	5894.4	5223.7	3509.2	1885.4	1147.3	1051.5	1025.6	1017.8	1015.2	1015.2	1012.6
22.5°	5954.0	5184.8	3175.1	1481.4	1056.6	1007.4	984.1	979.0	976.4	973.8	973.8
25°	6039.5	5135.6	2820.3	1212.0	999.7	966.0	942.7	937.5	934.9	924.6	927.2
27.5°	6153.4	5099.4	2455.1	1046.3	947.9	914.2	898.7	890.9	885.7	877.9	880.5
30°	6308.8	5068.3	2066.7	955.6	888.3	859.8	844.3	839.1	833.9	826.2	826.2
32.5°	6578.1	5081.2	1657.5	883.1	833.9	800.3	784.7	779.5	774.4	766.6	766.6
35°	6982.2	5156.3	1326.0	821.0	769.2	735.5	720.0	720.0	712.2	701.8	699.3
37.5°	7642.6	5348.0	1064.4	761.4	707.0	675.9	657.8	652.6	644.9	629.3	626.7
40°	8422.1	5645.8	896.1	701.8	650.0	619.0	603.4	587.9	567.2	551.6	549.0
42.5°	9401.0	5951.4	776.9	642.3	595.7	567.2	549.0	523.1	492.1	471.3	468.8
45°	10421.4	6231.1	696.7	587.9	543.9	520.6	499.8	458.4	419.6	393.7	391.1
47.5°	11182.8	6282.9	631.9	536.1	499.8	476.5	448.0	396.2	344.4	321.1	313.4
50°	11542.8	6031.7	564.6	484.3	455.8	429.9	393.7	334.1	277.1	248.6	243.4
52.5°	11669.7	5596.6	510.2	437.7	411.8	380.7	336.7	269.3	217.5	189.1	186.5
55°	11617.9	5047.6	461.0	393.7	360.0	323.7	279.7	215.0	160.6	137.3	132.1
57.5°	11346.0	4348.3	411.8	349.6	308.2	271.9	222.7	160.6	108.8	88.1	85.5
60°	10613.1	3395.3	362.6	300.4	261.6	222.7	176.1	114.0	67.3	49.2	49.2
62.5°	9375.1	2519.9	316.0	251.2	220.1	178.7	124.3	72.5	36.3	25.9	23.3
65°	7834.2	1859.5	264.2	212.4	183.9	139.9	88.1	44.0	18.1	7.8	5.2
67.5°	5467.1	1147.3	220.1	173.5	150.2	101.0	54.4	18.1	7.8	0.0	0.0
70°	2483.6	546.5	168.3	132.1	114.0	72.5	28.5	10.4	5.2	0.0	0.0
72.5°	771.8	287.5	119.1	95.8	77.7	46.6	15.5	7.8	5.2	0.0	0.0
75°	357.4	183.9	75.1	51.8	44.0	23.3	10.4	5.2	2.6	0.0	0.0
77.5°	266.8	142.4	44.0	28.5	23.3	15.5	7.8	5.2	2.6	0.0	0.0
80°	233.1	72.5	25.9	18.1	12.9	10.4	5.2	2.6	0.0	0.0	0.0
82.5°	209.8	36.3	15.5	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
85°	114.0	20.7	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0	0.0
87.5°	20.7	10.4	7.8	5.2	5.2	2.6	2.6	2.6	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)