

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: P457305

Luminaire Tested: **GALN-SA8C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457305
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-SA8C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34329 lumens
Efficiency: N/A
Efficacy: 80.0 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

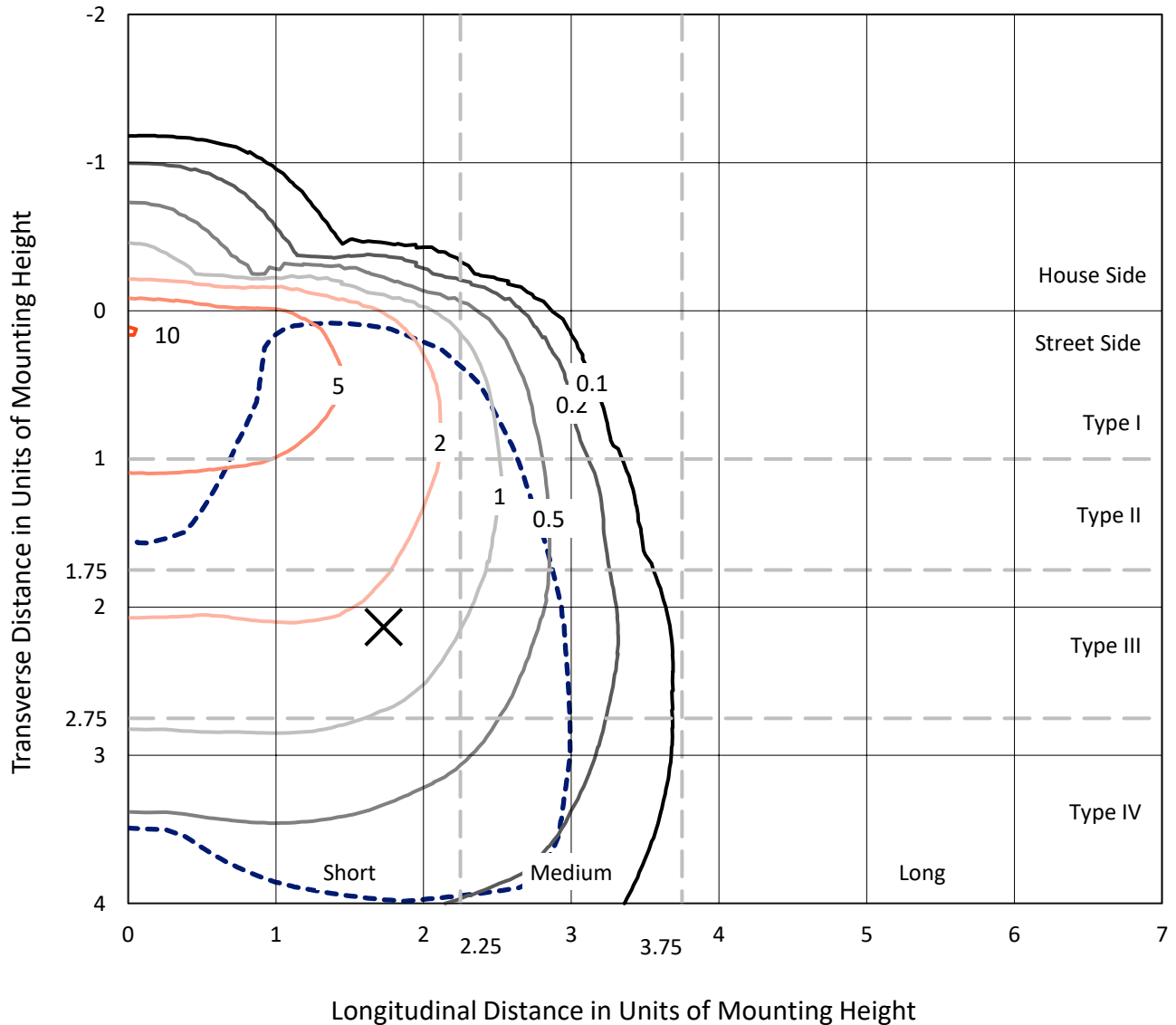
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457305
 CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

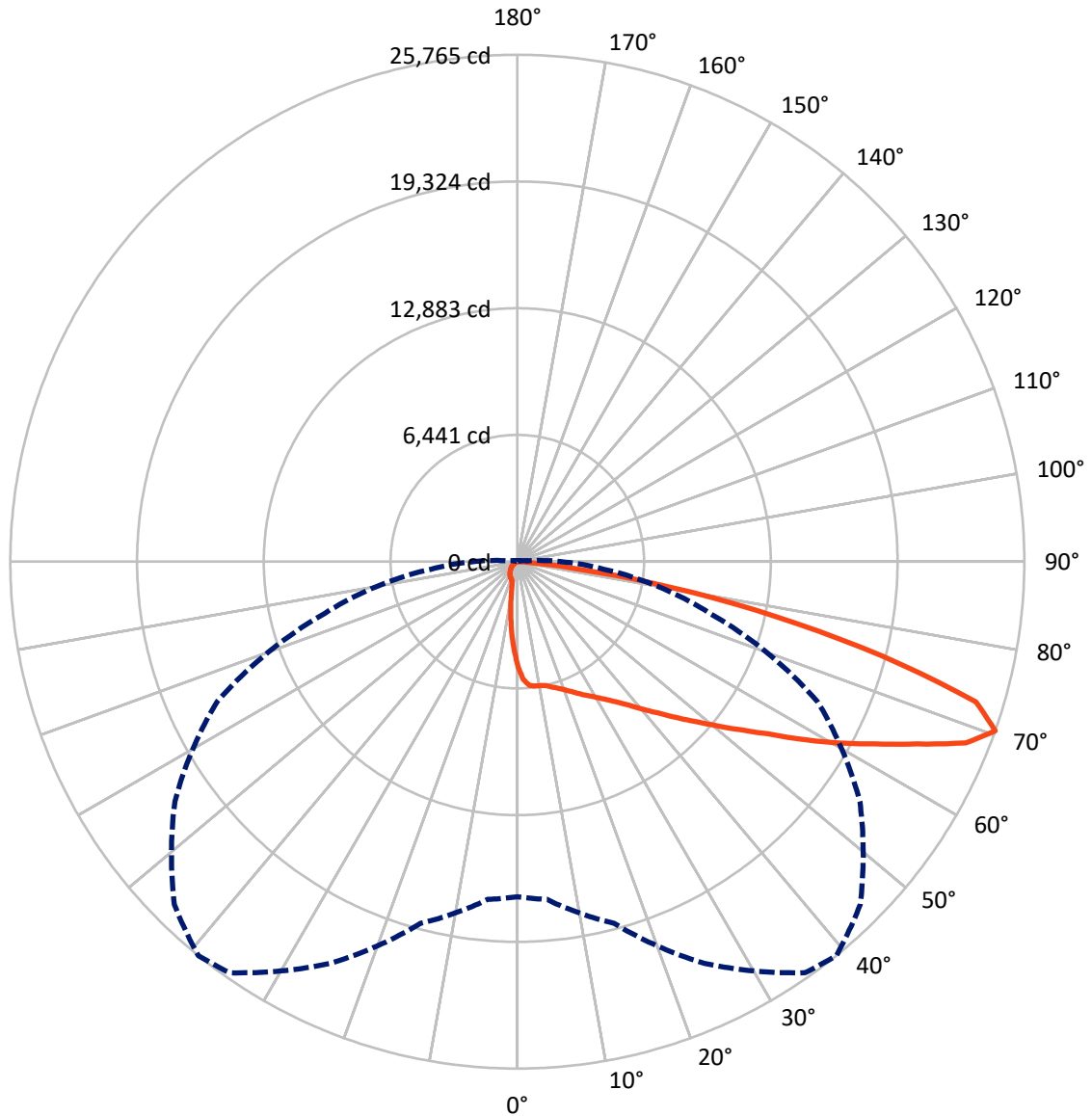
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P457305
CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457305

CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2238.4	0.0	2238.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	32090.6	0.0	32090.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	34329.0	0.0	34329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.9	1.3
10°-20°	1187.3	3.5
20°-30°	1989.0	5.8
30°-40°	3084.7	9.0
40°-50°	4888.4	14.2
50°-60°	7165.6	20.9
60°-70°	9184.6	26.8
70°-80°	5771.3	16.8
80°-90°	601.2	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°	34329.0	100.0
0°-180°	34329.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457305

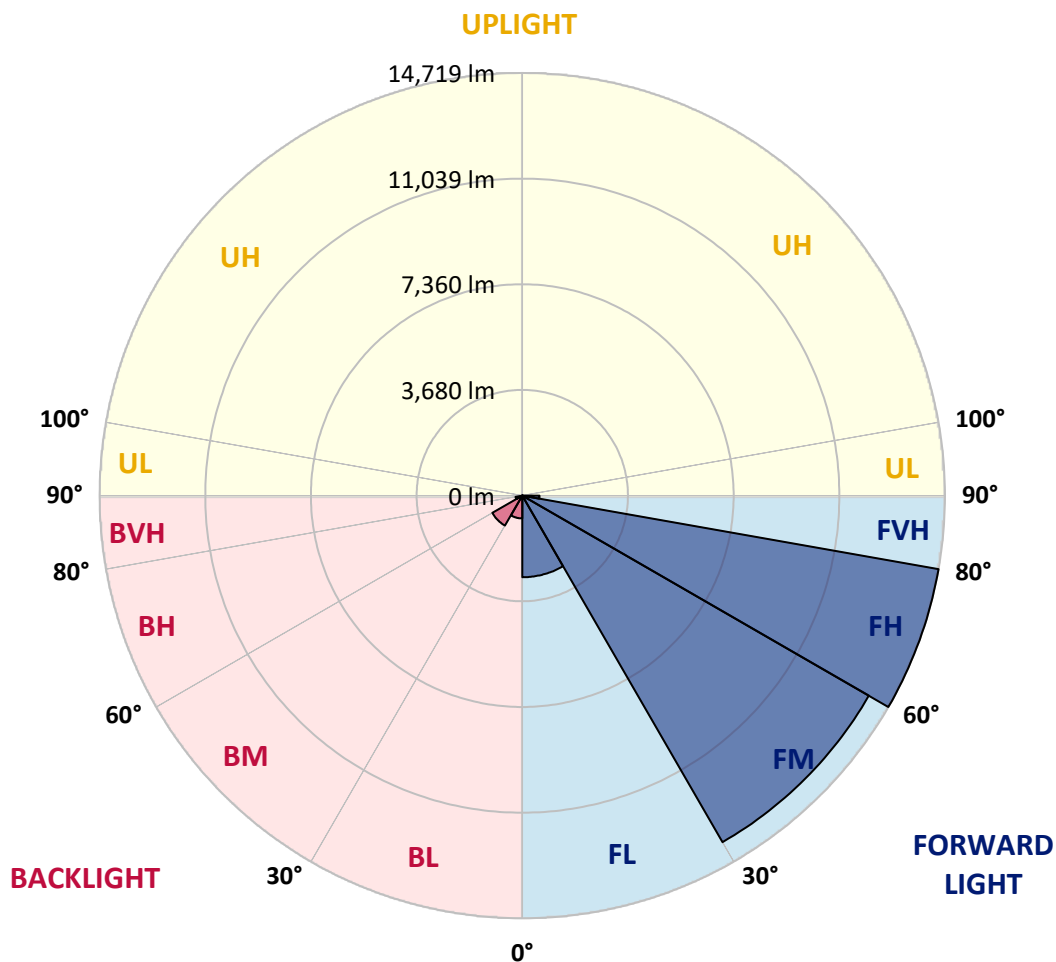
CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2840.6	8.3			
FM	(30°-60°)	13934.1	40.6			
FH	(60°-80°)	14719.2	42.9			G5
FVH	(80°-90°)	596.8	1.7			G4/750
BL	(0°-30°)	792.6	2.3	B2/1000		
BM	(30°-60°)	1204.6	3.5	B2/2500		
BH	(60°-80°)	236.7	0.7	B1/500		G1/500
BVH	(80°-90°)	4.4	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





REPORT NUMBER: P457305

CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5
2.5°	6189.3	6168.5	6140.8	6108.5	6016.3	6000.1	5944.7	5827.1	5686.4	5571.0	5411.9
5°	6482.2	6493.8	6473.0	6415.3	6348.4	6309.2	6240.0	6057.8	5875.5	5642.6	5381.9
7.5°	6549.1	6572.2	6546.8	6491.5	6426.9	6385.4	6330.0	6173.1	5960.9	5695.6	5338.0
10°	6542.2	6569.9	6553.8	6503.0	6449.9	6410.7	6350.8	6226.2	6055.5	5776.3	5351.9
12.5°	6530.7	6567.6	6565.3	6539.9	6496.1	6466.1	6429.2	6318.5	6159.3	5894.0	5428.0
15°	6498.4	6544.5	6586.1	6606.8	6609.1	6609.1	6563.0	6445.3	6293.1	6048.6	5527.2
17.5°	6512.2	6565.3	6669.1	6729.1	6770.6	6766.0	6717.5	6590.7	6422.3	6207.7	5631.0
20°	6597.6	6669.1	6814.4	6934.4	6975.9	6962.1	6897.5	6749.8	6558.4	6343.8	5732.5
22.5°	6807.5	6872.1	7054.3	7195.1	7225.0	7188.1	7095.9	6895.2	6722.2	6491.5	5854.8
25°	7121.2	7197.4	7365.8	7471.9	7471.9	7451.1	7321.9	7086.6	6906.7	6696.8	6014.0
27.5°	7501.9	7566.5	7732.6	7827.1	7771.8	7711.8	7582.6	7298.9	7125.9	6955.1	6205.4
30°	7887.1	7928.6	8104.0	8145.5	8087.8	8011.7	7873.3	7589.5	7437.3	7305.8	6482.2
32.5°	8251.6	8341.6	8486.9	8477.7	8399.2	8362.3	8235.4	7933.3	7847.9	7834.1	6869.8
35°	8616.1	8685.3	8814.5	8846.8	8777.6	8770.6	8678.4	8454.6	8456.9	8546.9	7474.2
37.5°	8929.8	8992.1	9144.3	9215.9	9229.7	9264.3	9227.4	9079.8	9289.7	9536.5	8274.7
40°	9192.8	9280.5	9474.2	9598.8	9741.8	9868.7	9875.6	9907.9	10330.1	10754.5	9319.7
42.5°	9398.1	9520.4	9801.8	10032.5	10360.1	10521.5	10650.7	10828.3	11538.9	12173.2	10551.5
45°	9665.7	9806.4	10157.1	10519.2	11031.3	11296.6	11476.6	11951.8	12959.9	13824.9	11815.7
47.5°	10108.6	10182.4	10540.0	11068.3	11741.9	12120.2	12470.8	13190.6	14484.7	15259.8	12867.6
50°	10678.4	10726.8	10996.7	11730.3	12602.3	13100.6	13739.6	14586.2	16067.2	16450.1	13462.8
52.5°	11308.2	11324.3	11527.3	12459.3	13566.6	14194.0	14909.2	15954.2	17356.7	17299.1	13857.2
55°	12039.4	12016.4	12189.4	13250.5	14708.5	15425.9	16258.7	17354.4	18475.5	17901.1	14083.3
57.5°	12876.8	12814.5	12982.9	14300.2	16171.0	17029.2	17875.8	18563.2	19342.9	18406.3	14191.7
60°	13753.4	13628.9	13829.6	15479.0	17894.2	18708.5	19412.1	19596.7	20256.4	18807.7	14004.9
62.5°	14452.4	14454.7	14828.4	16733.9	19665.9	20378.7	20752.4	20918.5	21043.1	18720.1	13022.2
65°	15543.5	15580.5	16177.9	18475.5	21716.7	22334.9	22591.0	22051.2	21077.7	17631.2	11545.8
67.5°	16669.3	16786.9	17880.4	20874.7	24085.8	24584.1	24254.2	22270.3	20136.5	15146.8	8754.5
70°	17036.1	17229.8	19031.5	22526.4	25506.8	25765.2	24648.7	21248.4	16833.1	10127.1	4406.1
72.5°	15610.4	15924.2	18369.4	21924.3	24600.2	24376.5	22053.5	17820.4	10701.5	3845.5	1344.9
75°	11008.3	11146.7	15266.7	18187.2	19785.8	19151.5	16775.4	11488.1	4401.5	1079.6	461.4
77.5°	5684.1	5617.2	9079.8	12067.1	14111.0	13453.5	10985.2	5947.1	1667.9	449.8	286.0
80°	2938.9	2987.4	3928.6	6323.1	8613.8	7926.3	5857.1	2756.7	888.1	249.1	219.2
82.5°	1647.1	1545.6	2258.4	2761.3	4027.8	3158.1	2246.9	1951.6	387.6	149.9	207.6
85°	299.9	313.7	1238.8	1492.5	1398.0	888.1	724.4	1303.4	113.0	83.0	145.3
87.5°	4.6	4.6	239.9	429.1	272.2	124.6	228.4	186.9	23.1	32.3	25.4
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: P457305

CATALOG NUMBER: GALN-SA8C-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5	5356.5
2.5°	5331.1	5243.5	5079.7	4918.2	4712.9	4544.5	4431.5	4313.8	4193.9	4203.1	4230.8
5°	5238.9	5086.6	4763.6	4422.2	4094.7	3799.4	3508.7	3248.0	3141.9	3045.0	3049.7
7.5°	5146.6	4932.0	4459.1	3923.9	3428.0	2925.1	2560.6	2260.7	2101.5	1981.6	1947.0
10°	5105.1	4821.3	4180.0	3444.1	2740.5	2191.5	1723.2	1478.7	1289.5	1229.6	1245.7
12.5°	5123.5	4765.9	3928.6	3010.4	2173.1	1527.1	1199.6	1075.0	1033.5	1026.5	1021.9
15°	5158.1	4726.7	3681.7	2530.6	1596.3	1135.0	1008.1	985.0	980.4	975.8	978.1
17.5°	5204.2	4692.1	3418.7	2080.8	1224.9	991.9	955.0	943.5	941.2	941.2	941.2
20°	5250.4	4652.9	3125.8	1679.4	1021.9	936.6	913.5	906.6	904.3	904.3	902.0
22.5°	5303.4	4618.3	2828.2	1319.5	941.2	897.4	876.6	872.0	869.7	867.4	867.4
25°	5379.6	4574.5	2512.2	1079.6	890.4	860.5	839.7	835.1	832.8	823.5	825.9
27.5°	5481.1	4542.2	2186.9	932.0	844.3	814.3	800.5	793.6	788.9	782.0	784.3
30°	5619.5	4514.5	1840.9	851.2	791.2	765.9	752.0	747.4	742.8	735.9	735.9
32.5°	5859.4	4526.0	1476.4	786.6	742.8	712.8	699.0	694.4	689.7	682.8	682.8
35°	6219.3	4592.9	1181.1	731.3	685.1	655.1	641.3	641.3	634.4	625.2	622.8
37.5°	6807.5	4763.6	948.1	678.2	629.8	602.1	585.9	581.3	574.4	560.6	558.3
40°	7501.9	5028.9	798.2	625.2	579.0	551.3	537.5	523.7	505.2	491.4	489.1
42.5°	8373.9	5301.1	692.1	572.1	530.6	505.2	489.1	466.0	438.3	419.8	417.5
45°	9282.8	5550.3	620.5	523.7	484.4	463.7	445.2	408.3	373.7	350.6	348.3
47.5°	9961.0	5596.4	562.9	477.5	445.2	424.5	399.1	352.9	306.8	286.0	279.1
50°	10281.6	5372.6	502.9	431.4	406.0	382.9	350.6	297.6	246.8	221.5	216.8
52.5°	10394.7	4985.1	454.4	389.9	366.8	339.1	299.9	239.9	193.8	168.4	166.1
55°	10348.5	4496.0	410.6	350.6	320.7	288.4	249.1	191.5	143.0	122.3	117.6
57.5°	10106.3	3873.2	366.8	311.4	274.5	242.2	198.4	143.0	96.9	78.4	76.1
60°	9453.5	3024.3	323.0	267.6	233.0	198.4	156.9	101.5	60.0	43.8	43.8
62.5°	8350.8	2244.6	281.4	223.8	196.1	159.2	110.7	64.6	32.3	23.1	20.8
65°	6978.2	1656.3	235.3	189.2	163.8	124.6	78.4	39.2	16.1	6.9	4.6
67.5°	4869.8	1021.9	196.1	154.6	133.8	90.0	48.4	16.1	6.9	0.0	0.0
70°	2212.3	486.7	149.9	117.6	101.5	64.6	25.4	9.2	4.6	0.0	0.0
72.5°	687.4	256.1	106.1	85.4	69.2	41.5	13.8	6.9	4.6	0.0	0.0
75°	318.3	163.8	66.9	46.1	39.2	20.8	9.2	4.6	2.3	0.0	0.0
77.5°	237.6	126.9	39.2	25.4	20.8	13.8	6.9	4.6	2.3	0.0	0.0
80°	207.6	64.6	23.1	16.1	11.5	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	186.9	32.3	13.8	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
85°	101.5	18.5	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.5	9.2	6.9	4.6	4.6	2.3	2.3	2.3	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)