

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: P458081

Luminaire Tested: **GALN-SA9C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43671 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

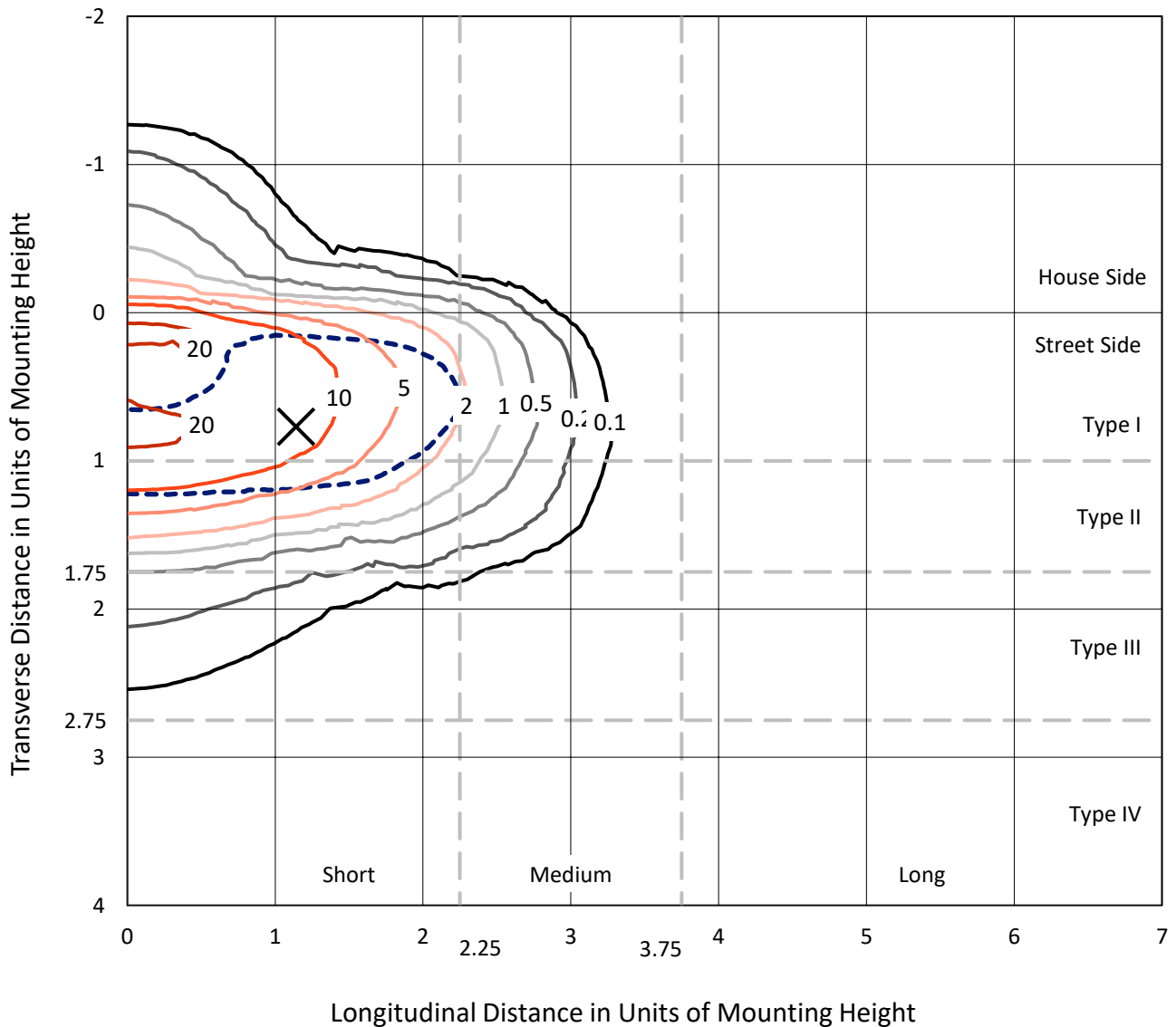
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458081
 CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

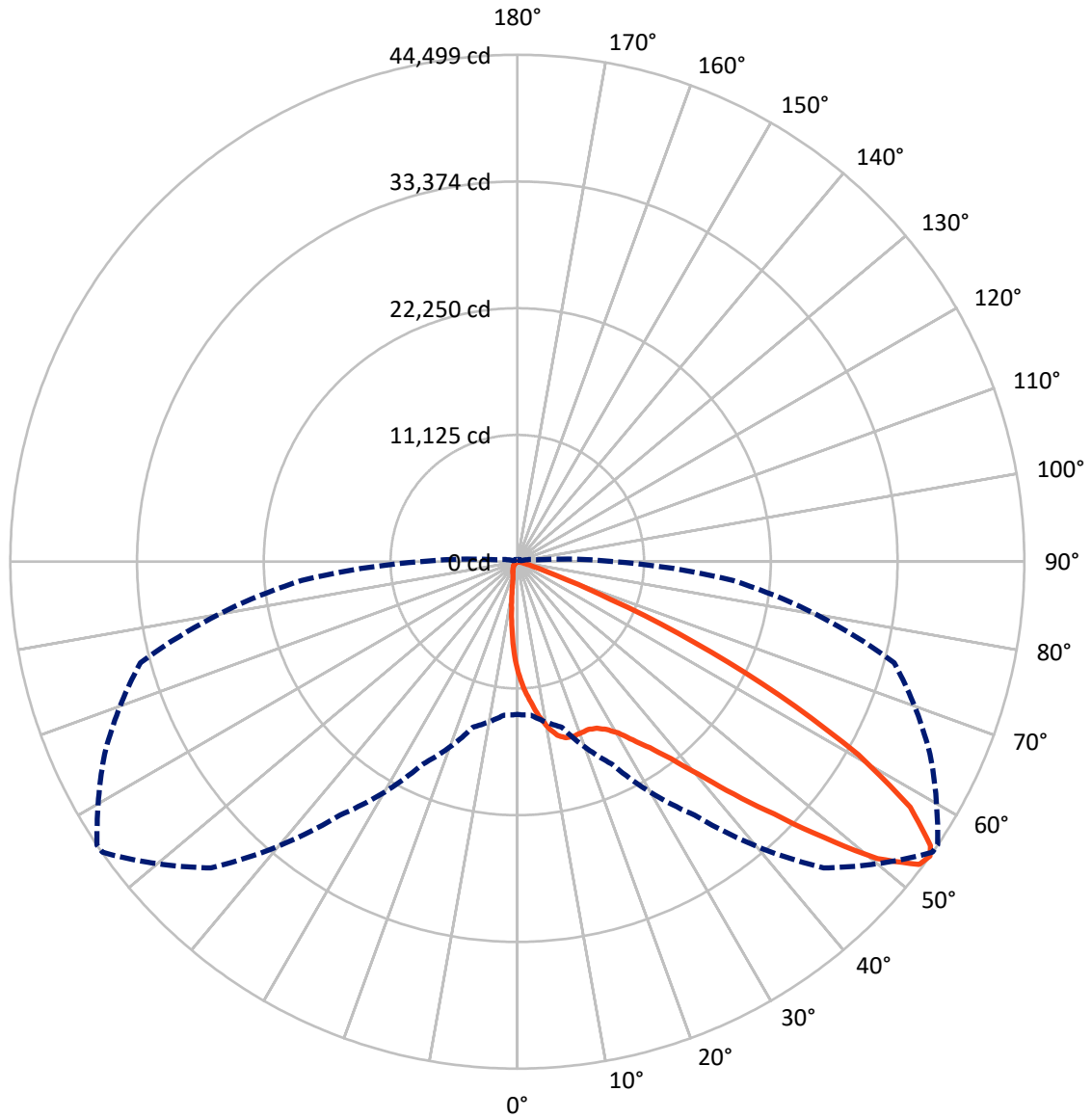
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

REPORT NUMBER: P458081
CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P458081

CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.1	0.0	2065.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	41605.9	0.0	41605.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	43671.0	0.0	43671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.4	2.0
10°-20°	2317.8	5.3
20°-30°	4014.1	9.2
30°-40°	6929.0	15.9
40°-50°	11793.5	27.0
50°-60°	11671.1	26.7
60°-70°	5326.9	12.2
70°-80°	684.1	1.6
80°-90°	77.1	0.2
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°	43671.0	100.0
0°-180°	43671.0	100.0

Coefficient of Utilization

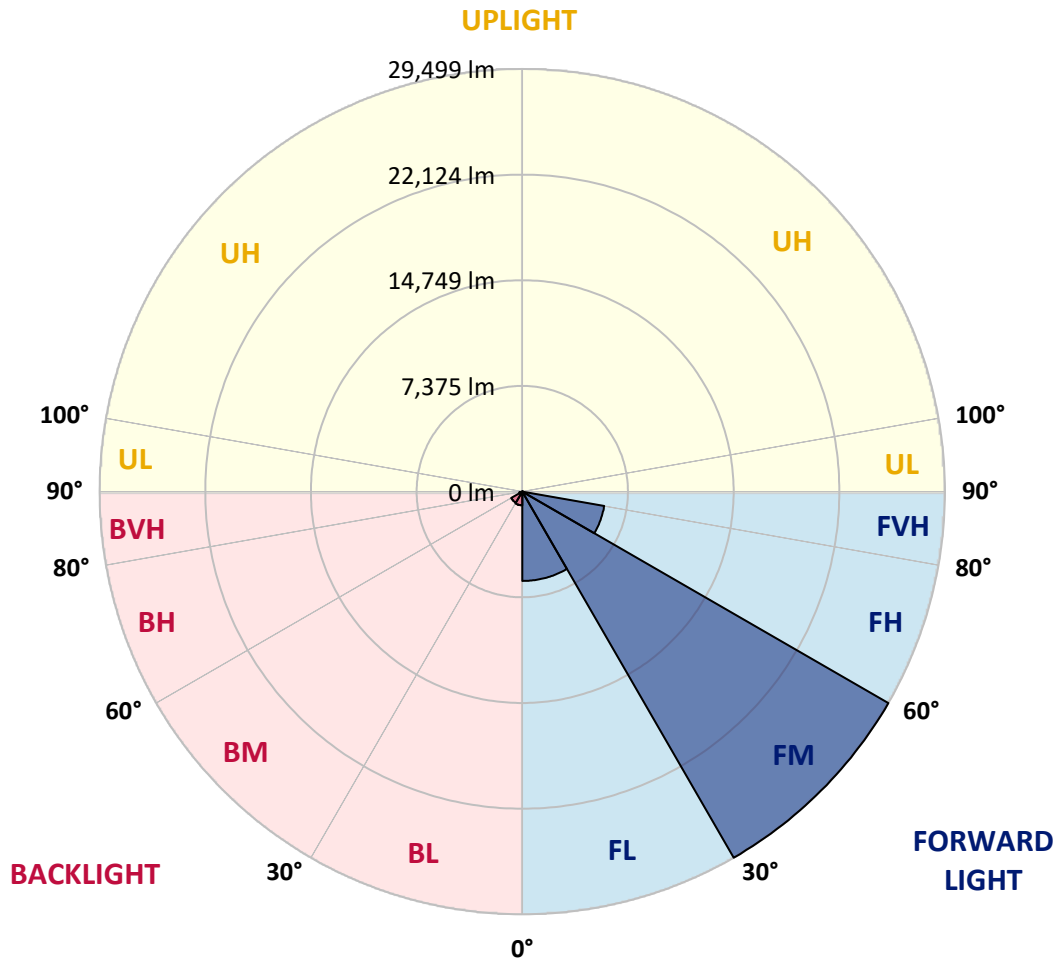


REPORT NUMBER: P458081
 CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6234.2	14.3			
FM (30°-60°)	29498.6	67.5			
FH (60°-80°)	5804.2	13.3			G3/7500
FVH (80°-90°)	68.8	0.2			G1/100
BL (0°-30°)	955.1	2.2	B2/1000		
BM (30°-60°)	895.0	2.0	B1/1000		
BH (60°-80°)	206.8	0.5	B1/500		G1/500
BVH (80°-90°)	8.3	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-G3
 Type II Short





REPORT NUMBER: P458081

CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4
2.5°	12330.6	12245.2	12127.3	12036.0	11820.9	11511.5	11184.5	11184.5	10869.2	10430.2	9982.3
5°	14222.2	14166.2	14051.3	13815.6	13574.0	13140.9	12483.8	12368.9	11806.2	11010.6	10173.9
7.5°	14991.2	15017.7	15023.6	14961.7	14846.8	14419.6	13768.5	13688.9	12790.3	11723.7	10424.3
10°	14254.6	14384.2	14510.9	14767.3	15129.7	15232.8	14864.5	14782.0	13898.1	12445.5	10695.4
12.5°	13158.5	13229.3	13300.0	13703.6	14431.4	15265.2	15651.2	15648.2	14899.9	13164.4	11040.1
15°	12648.8	12710.7	12716.6	12896.3	13526.8	14740.8	15987.1	16031.3	15878.1	14051.3	11411.3
17.5°	12754.9	12805.0	12763.7	12807.9	13137.9	14163.3	15948.8	16096.1	16670.6	14902.8	11747.2
20°	13447.3	13544.5	13385.4	13261.7	13361.8	14010.1	15819.1	16025.4	17230.5	15733.7	12053.7
22.5°	14690.7	14743.7	14543.3	14204.5	14027.7	14331.2	15783.8	15987.1	17707.8	16414.3	12230.4
25°	16072.5	16054.8	15833.9	15453.8	15082.5	14979.4	16016.5	16199.2	18102.6	17027.2	12283.5
27.5°	17454.4	17507.4	17136.2	16664.7	16219.8	15951.7	16538.1	16673.6	18547.5	17725.4	12348.3
30°	19060.2	18974.7	18609.4	18070.2	17560.4	17186.3	17377.8	17416.1	19160.3	18650.6	12519.2
32.5°	21149.1	20913.4	20503.9	19561.0	19195.7	18562.2	18609.4	18656.5	19905.8	19566.9	12725.4
35°	23983.6	23971.8	23170.4	21900.5	21010.7	20224.0	20017.7	20056.0	21034.2	20928.2	13182.1
37.5°	27395.5	27442.6	26529.2	25250.5	23612.3	22363.1	21938.8	21944.7	22749.0	22808.0	13877.5
40°	30173.9	30297.7	29752.6	28889.3	27271.7	25318.3	24605.2	24540.4	25159.2	25085.5	14870.4
42.5°	31370.1	31485.1	31688.4	31988.9	31099.1	29487.4	27805.0	27893.4	28082.0	27566.4	15984.1
45°	30783.8	30966.5	31765.0	33621.2	34458.0	33915.8	31909.3	31600.0	30801.5	30262.3	17103.8
47.5°	28341.3	28786.2	30120.9	33211.6	36140.3	37973.0	36541.0	36131.5	33524.0	32230.5	17816.8
50°	24325.3	24351.9	26211.0	30162.1	35268.2	40533.4	41270.0	40963.6	36060.8	33335.4	18176.2
52.5°	17634.1	18214.5	19917.6	24493.3	31490.9	40144.5	44284.1	44157.4	38677.2	33901.1	18694.8
54°	13406.0	13518.0	15032.4	19572.8	27150.9	38008.3	44469.8	44499.2	39976.5	34242.9	19001.2
55°	10990.0	10721.9	12312.9	16673.6	24189.8	36119.7	43862.8	44004.2	40559.9	34419.7	19228.1
57.5°	5209.2	5212.2	6429.0	8795.0	15150.3	28046.6	40153.3	40654.2	40624.7	34723.1	19926.4
60°	2637.0	2654.7	2922.8	4060.1	7483.8	18644.7	33199.8	34393.1	37498.6	34767.3	20156.2
62.5°	1844.4	1823.8	1779.6	1953.5	3149.7	9475.6	24717.2	25754.3	31859.2	33084.9	19425.5
65°	1579.3	1535.1	1411.3	1384.8	1591.0	3774.3	15394.9	17086.1	24325.3	28647.7	17345.4
67.5°	1349.4	1331.8	1219.8	1152.0	1125.5	1644.1	7943.4	8833.3	16626.4	20592.3	13137.9
70°	1146.1	1137.3	1069.5	984.1	910.4	984.1	2946.4	3650.6	9266.4	11087.2	6199.2
72.5°	931.1	939.9	951.7	842.7	766.1	698.3	1258.1	1464.4	3877.4	3962.9	2168.5
75°	816.1	807.3	807.3	733.6	639.4	518.6	692.4	745.4	1187.4	1101.9	503.8
77.5°	574.5	553.9	648.2	604.0	533.3	368.3	394.8	418.4	492.0	421.3	235.7
80°	397.8	397.8	415.4	542.1	480.3	268.1	241.6	259.3	291.7	250.4	135.5
82.5°	223.9	229.8	271.1	288.7	279.9	179.7	159.1	162.1	194.5	170.9	85.4
85°	26.5	44.2	156.2	153.2	114.9	79.6	88.4	91.3	120.8	106.1	50.1
87.5°	2.9	5.9	32.4	41.2	29.5	32.4	32.4	32.4	41.2	47.1	35.4
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: P458081

CATALOG NUMBER: GALN-SA9C-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4	9702.4
2.5°	9740.7	9516.8	8983.5	8364.8	7970.0	7327.7	6785.5	6393.7	6296.4	6107.9	6163.8
5°	9729.0	9263.4	8176.2	7027.1	5801.4	4888.1	4207.4	3671.2	3435.5	3279.3	3170.3
7.5°	9734.9	9007.1	7262.8	5433.1	3968.8	3073.1	2442.6	2115.5	1897.5	1806.1	1817.9
10°	9752.5	8718.3	6202.1	4024.8	2678.3	1985.9	1599.9	1443.7	1370.1	1358.3	1355.3
12.5°	9793.8	8403.1	5188.6	2987.6	1873.9	1443.7	1296.4	1243.4	1219.8	1219.8	1211.0
15°	9838.0	8055.4	4345.9	2221.6	1443.7	1240.4	1172.7	1146.1	1131.4	1131.4	1128.5
17.5°	9838.0	7654.7	3559.2	1723.6	1243.4	1140.3	1087.2	1051.9	1040.1	1040.1	1037.1
20°	9776.1	7189.2	2860.9	1387.7	1128.5	1046.0	992.9	954.6	939.9	934.0	931.1
22.5°	9561.0	6567.5	2277.6	1193.3	1034.2	963.5	895.7	851.5	839.7	833.8	836.8
25°	9178.0	5866.2	1803.2	1048.9	948.7	863.3	804.4	772.0	760.2	760.2	763.1
27.5°	8783.2	5132.6	1429.0	939.9	845.6	769.0	721.9	701.2	698.3	707.1	710.1
30°	8417.8	4396.0	1157.9	851.5	754.3	689.5	657.0	651.2	651.2	654.1	657.0
32.5°	8011.2	3750.7	969.4	774.9	680.6	624.6	607.0	607.0	612.8	612.8	618.7
35°	7754.9	3196.8	851.5	701.2	624.6	577.5	565.7	568.7	577.5	589.3	595.2
37.5°	7616.4	2754.9	774.9	642.3	571.6	539.2	527.4	533.3	553.9	574.5	577.5
40°	7628.2	2421.9	713.0	592.2	530.3	495.0	486.2	503.8	524.5	545.1	548.0
42.5°	7757.8	2174.4	654.1	533.3	495.0	444.9	442.0	459.6	468.5	489.1	492.0
45°	7911.0	1994.7	592.2	471.4	430.2	386.0	388.9	403.7	415.4	447.9	453.7
47.5°	7958.2	1871.0	521.5	400.7	353.6	338.8	341.8	350.6	374.2	403.7	406.6
50°	8011.2	1794.3	453.7	338.8	300.5	297.6	300.5	306.4	321.2	332.9	330.0
52.5°	8238.1	1791.4	397.8	294.6	256.3	262.2	265.2	262.2	250.4	232.8	226.9
54°	8450.2	1800.2	371.2	274.0	235.7	244.5	241.6	226.9	197.4	179.7	170.9
55°	8621.1	1809.1	356.5	259.3	223.9	226.9	229.8	200.4	162.1	144.4	138.5
57.5°	8957.0	1788.5	321.2	226.9	197.4	185.6	182.7	132.6	88.4	76.6	70.7
60°	8789.1	1614.6	291.7	194.5	167.9	150.3	123.7	73.7	44.2	32.4	32.4
62.5°	8129.1	1370.1	259.3	159.1	138.5	114.9	64.8	41.2	20.6	11.8	8.8
65°	7271.7	1152.0	232.8	126.7	109.0	73.7	35.4	26.5	8.8	0.0	0.0
67.5°	5406.6	854.5	197.4	100.2	82.5	47.1	23.6	14.7	2.9	0.0	0.0
70°	2504.4	521.5	167.9	76.6	58.9	35.4	17.7	8.8	0.0	0.0	0.0
72.5°	718.9	327.0	138.5	56.0	41.2	29.5	14.7	5.9	2.9	0.0	0.0
75°	250.4	262.2	103.1	41.2	32.4	20.6	11.8	5.9	2.9	0.0	0.0
77.5°	150.3	212.1	64.8	35.4	26.5	17.7	11.8	5.9	2.9	2.9	0.0
80°	85.4	141.4	41.2	29.5	23.6	14.7	8.8	5.9	2.9	2.9	0.0
82.5°	47.1	67.8	32.4	26.5	20.6	14.7	8.8	5.9	2.9	2.9	2.9
85°	38.3	35.4	26.5	23.6	17.7	11.8	8.8	2.9	0.0	0.0	0.0
87.5°	29.5	23.6	23.6	23.6	17.7	11.8	8.8	2.9	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)