

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: P457227

Luminaire Tested: **GALN-SA8C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45452 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

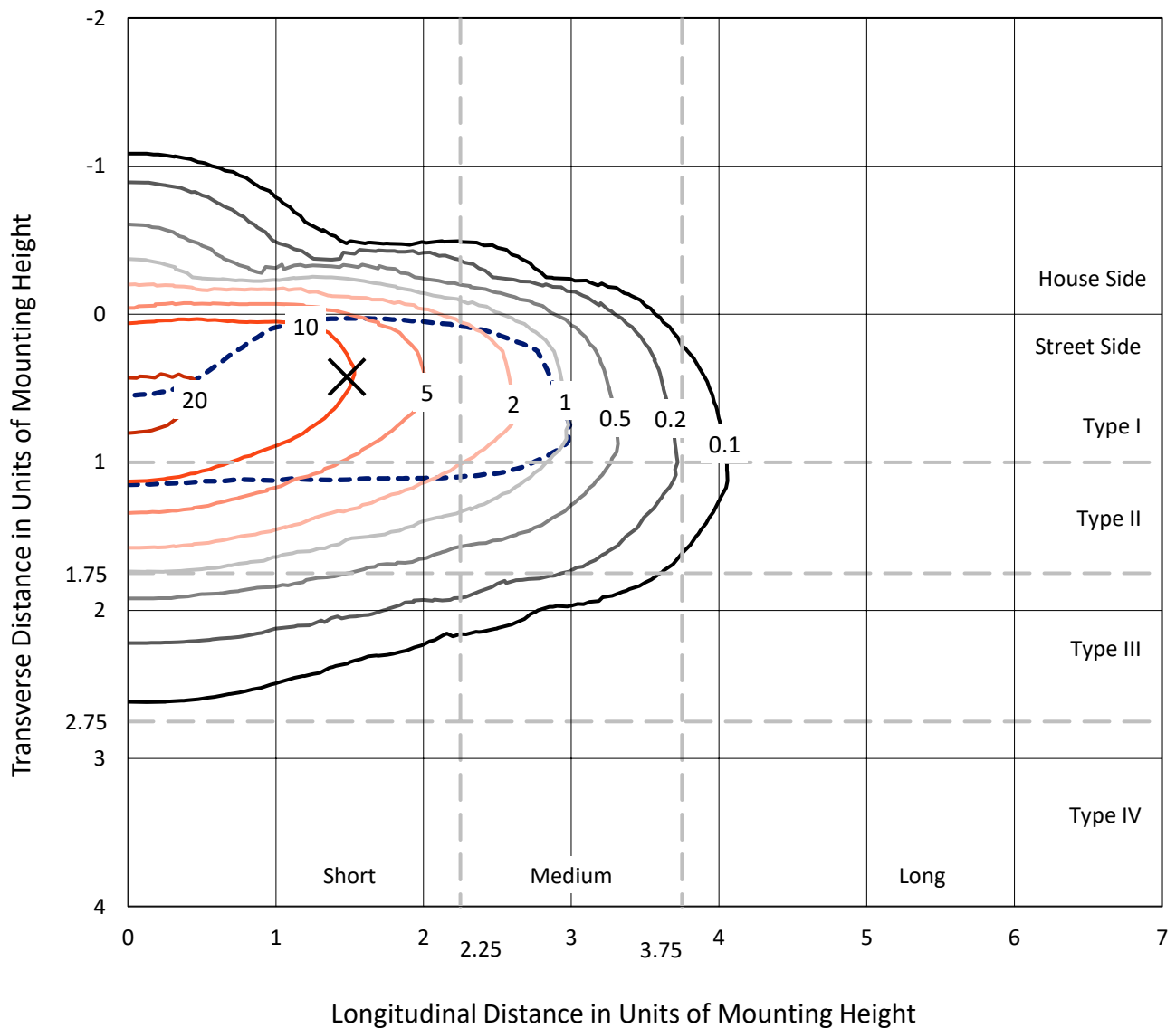
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

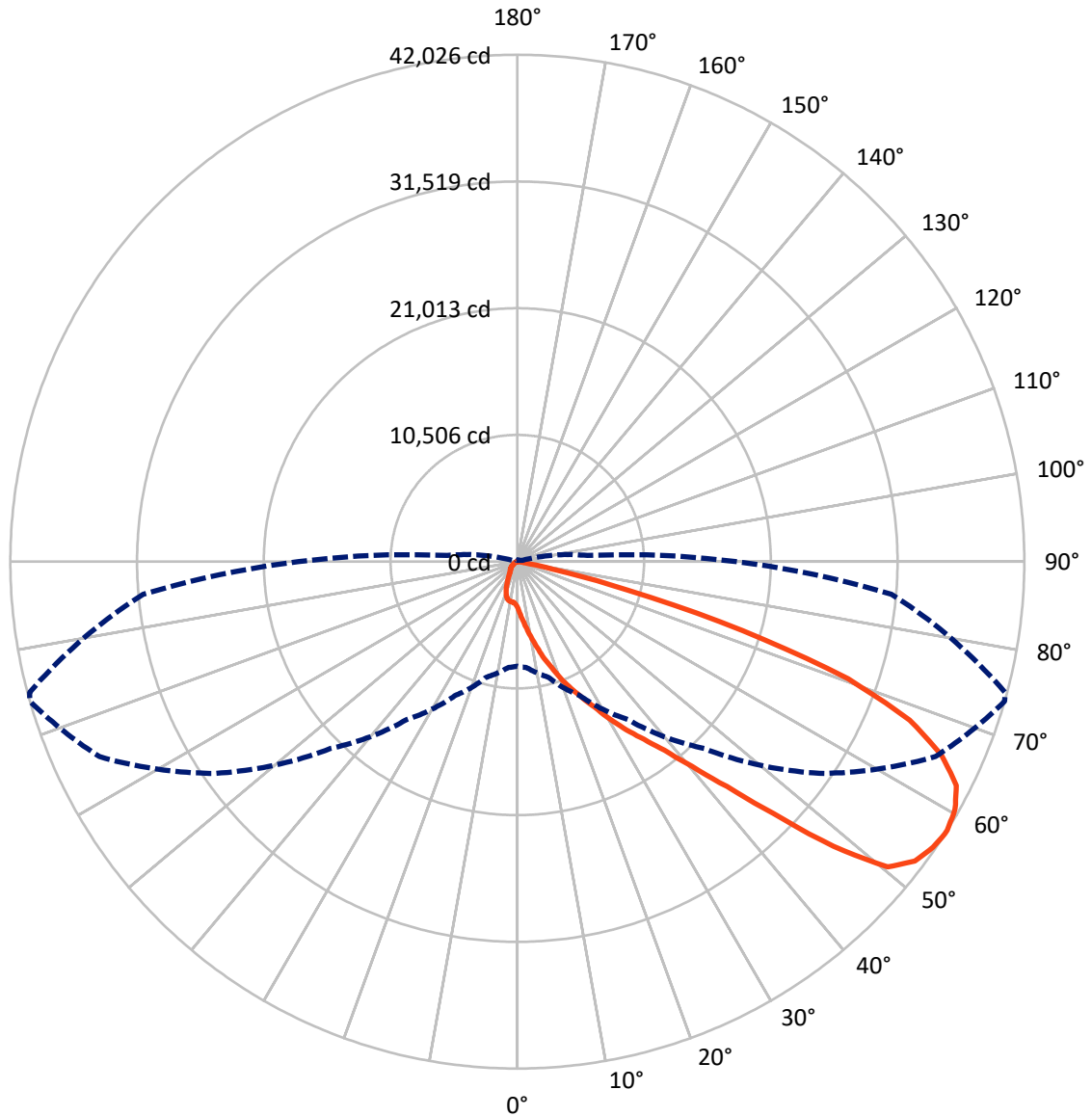
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2621.5	0.0	2621.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	42830.5	0.0	42830.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	45452.0	0.0	45452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	1.0
10°-20°	1811.0	4.0
20°-30°	3875.1	8.5
30°-40°	7122.4	15.7
40°-50°	10918.7	24.0
50°-60°	11550.6	25.4
60°-70°	7542.8	16.6
70°-80°	2061.0	4.5
80°-90°	111.0	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°	45452.0	100.0
0°-180°	45452.0	100.0

Coefficient of Utilization



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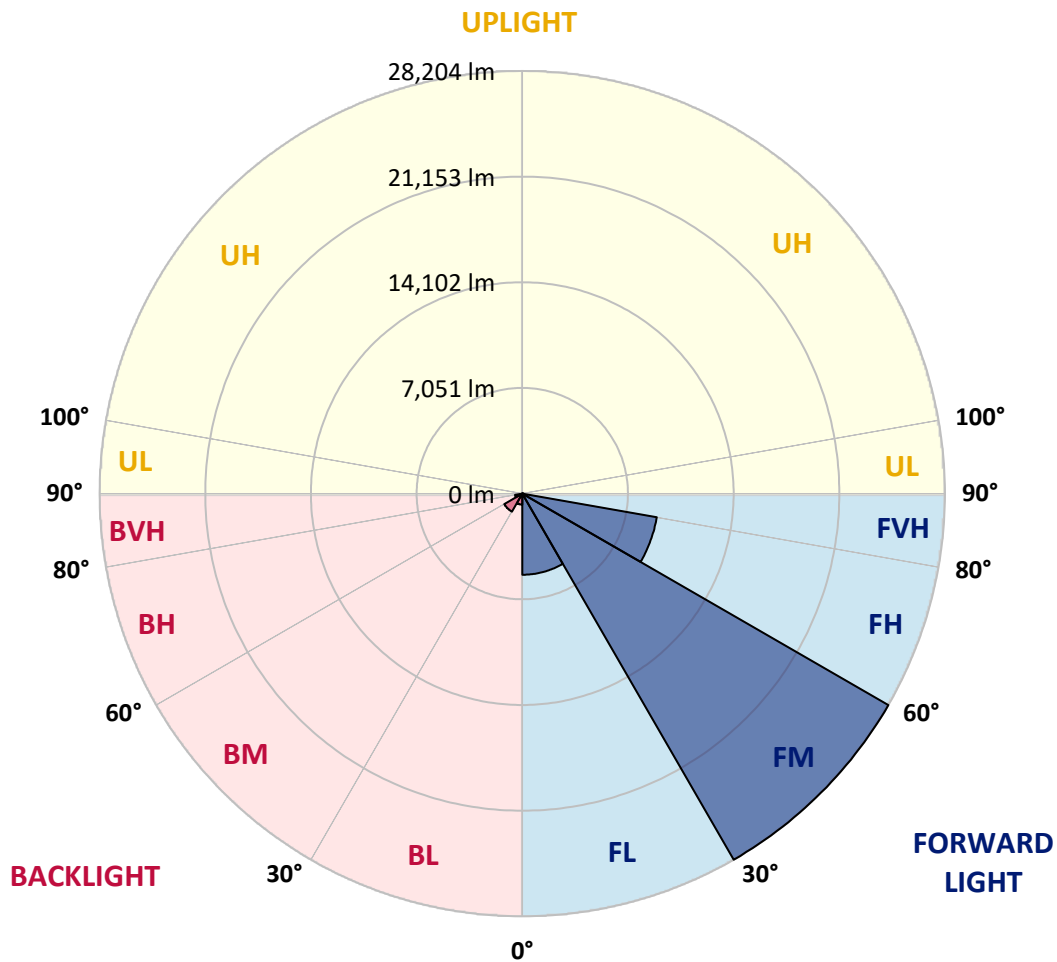
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5413.3	11.9			
FM	(30°-60°)	28203.8	62.1			
FH	(60°-80°)	9111.6	20.0			G4/12000
FVH	(80°-90°)	101.8	0.2			G2/225
BL	(0°-30°)	732.3	1.6	B2/1000		
BM	(30°-60°)	1387.9	3.1	B2/2500		
BH	(60°-80°)	492.2	1.1	B1/500		G1/500
BVH	(80°-90°)	9.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5
2.5°	5570.2	5520.0	5419.5	5385.0	5237.5	5008.4	4807.6	4537.7	4324.3	4302.4	4045.0
5°	7459.3	7346.4	7299.3	7073.3	6718.7	6386.1	5814.9	5381.9	4882.9	4845.3	4327.5
7.5°	9279.4	9122.5	9075.5	8862.1	8447.8	7923.8	7183.2	6395.5	5604.7	5532.5	4707.2
10°	10597.4	10619.4	10534.7	10393.5	10057.7	9524.2	8611.0	7534.6	6408.1	6317.0	5134.0
12.5°	11542.0	11538.9	11554.6	11551.4	11372.6	10967.7	10007.5	8767.9	7293.0	7114.1	5623.5
15°	12157.1	12166.5	12213.6	12376.8	12395.6	12144.5	11344.3	9947.9	8319.2	8096.4	6153.9
17.5°	12778.4	12844.3	12919.7	13073.4	13211.5	13111.1	12546.2	11178.0	9248.1	9081.7	6721.9
20°	13804.6	13895.6	13851.7	13945.8	14018.0	14027.4	13591.2	12314.0	10374.6	10095.3	7371.5
22.5°	15445.9	15442.7	15329.7	15160.3	15019.1	15012.8	14617.4	13481.4	11397.7	11127.8	8024.2
25°	17520.2	17529.6	17309.9	16826.6	16475.2	16045.2	15590.2	14504.4	12492.9	12160.2	8711.4
27.5°	19898.9	19839.2	19506.6	18841.3	18144.6	17410.3	16754.5	15693.8	13654.0	13377.8	9499.1
30°	22035.9	22013.9	21624.8	20812.0	19895.7	19158.3	18207.4	17184.4	15157.1	14818.2	10380.9
32.5°	24025.5	24056.9	23517.1	22676.1	21791.1	20940.7	19936.5	18609.1	16632.1	16151.9	11341.2
35°	25578.9	25610.2	25051.7	24351.9	23441.8	22735.7	21778.6	20127.9	18088.2	17683.3	12445.8
37.5°	26407.3	26448.1	26124.9	25597.7	25029.7	24675.1	23783.9	22083.0	19858.1	19613.3	13751.3
40°	26564.2	26611.3	26470.1	26328.9	26297.5	26551.7	26291.2	24386.4	22312.1	21929.2	15696.9
42.5°	26093.5	26156.3	26219.0	26532.8	27173.0	28105.0	29012.0	27511.9	25472.2	24957.5	18075.6
45°	24857.1	24850.8	25098.7	25911.5	27345.6	29335.2	31855.1	31425.2	29777.7	29165.7	21436.5
47.5°	22742.0	22710.6	23247.2	24405.2	26639.5	29561.1	34174.2	36176.3	35272.5	34707.7	25048.5
50°	19519.1	19672.9	20517.1	22133.2	24885.3	28877.0	34889.7	39292.5	39782.0	39182.6	27967.0
52.5°	15744.0	15737.7	17062.0	19255.5	22287.0	27370.7	34390.7	39857.3	41247.5	40789.4	29404.2
55°	11651.9	11733.4	13111.1	15323.5	18913.5	24621.7	32762.0	39276.8	41806.1	41482.9	30351.9
57°	8667.5	8811.9	9916.5	12257.5	15976.2	21901.0	30593.6	38238.1	42025.8	41850.0	31139.6
57.5°	8090.1	8096.4	9172.7	11300.4	15116.3	20856.0	29972.2	37805.0	42019.5	41922.2	31268.3
60°	4980.2	5137.1	5880.8	7638.2	11065.0	16277.5	25807.9	35316.5	41693.1	41834.3	31817.5
62.5°	2981.2	3047.1	3530.4	4603.6	7133.0	11880.9	21119.6	32131.3	40842.7	41272.6	31779.8
65°	1917.4	1933.1	2152.8	2786.7	4459.3	8030.5	16274.3	27923.0	38642.9	39433.7	30537.1
67.5°	1481.2	1506.3	1594.2	1829.5	2585.8	5002.2	11510.6	23432.4	35084.2	36104.1	27524.5
70°	1314.9	1327.4	1358.8	1434.1	1710.3	2824.3	7161.2	18304.7	29093.6	29382.3	21540.1
72.5°	1073.2	1107.8	1205.0	1230.1	1355.7	1763.6	3985.4	12285.8	19547.4	19619.6	12050.4
75°	831.6	837.9	982.2	1054.4	1142.3	1214.5	1779.3	6194.7	9389.3	8887.2	4644.4
77.5°	621.3	649.6	715.5	806.5	932.0	869.3	797.1	2334.8	2915.3	2862.0	1349.4
80°	398.5	414.2	499.0	605.7	724.9	568.0	448.8	684.1	640.2	659.0	323.2
82.5°	200.8	204.0	320.1	492.7	461.3	285.6	282.4	279.3	238.5	235.4	150.6
85°	22.0	47.1	207.1	282.4	207.1	94.1	131.8	128.7	125.5	128.7	87.9
87.5°	3.1	3.1	34.5	40.8	28.2	31.4	37.7	40.8	50.2	47.1	37.7
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°	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5	3806.5
2.5°	3919.5	3794.0	3561.8	3339.0	3172.6	3065.9	2927.9	2877.7	2805.5	2796.1	2761.6
5°	4089.0	3850.5	3445.7	3125.6	2868.2	2673.7	2504.2	2363.0	2250.0	2224.9	2237.5
7.5°	4330.6	3976.0	3411.1	2974.9	2617.2	2284.6	2014.7	1848.4	1729.1	1685.2	1691.4
10°	4603.6	4142.3	3404.9	2814.9	2268.9	1860.9	1565.9	1418.4	1349.4	1324.3	1296.0
12.5°	4926.9	4333.8	3389.2	2567.0	1886.0	1484.3	1274.1	1186.2	1120.3	1101.5	1101.5
15°	5290.9	4537.7	3313.9	2259.5	1531.4	1227.0	1085.8	1016.8	994.8	976.0	976.0
17.5°	5670.6	4738.6	3157.0	1879.7	1270.9	1051.3	963.4	922.6	891.2	869.3	869.3
20°	6103.7	4936.3	2905.9	1544.0	1073.2	938.3	869.3	822.2	797.1	778.3	772.0
22.5°	6514.7	5096.3	2585.8	1267.8	935.2	844.2	781.4	731.2	706.1	696.7	696.7
25°	6941.5	5193.6	2199.8	1048.1	853.6	765.7	696.7	655.9	633.9	627.6	624.5
27.5°	7355.8	5250.1	1860.9	916.3	778.3	693.5	627.6	596.2	574.3	568.0	571.1
30°	7857.9	5259.5	1531.4	822.2	712.4	624.5	564.9	536.6	524.1	517.8	514.7
32.5°	8366.2	5246.9	1286.6	765.7	649.6	564.9	514.7	492.7	483.3	473.9	473.9
35°	8937.4	5181.0	1095.2	709.2	590.0	514.7	470.7	451.9	439.3	429.9	426.8
37.5°	9646.6	5146.5	985.4	646.5	536.6	467.6	426.8	408.0	398.5	386.0	382.9
40°	10763.8	5300.3	950.9	590.0	483.3	423.6	386.0	364.0	351.5	338.9	335.8
42.5°	12157.1	5570.2	894.4	533.5	436.2	382.9	345.2	320.1	298.1	282.4	276.2
45°	13961.5	5924.8	806.5	473.9	395.4	338.9	304.4	273.0	244.8	232.2	229.1
47.5°	15853.8	6266.8	728.0	426.8	351.5	301.3	263.6	229.1	204.0	194.6	191.4
50°	17014.9	6335.9	677.8	373.4	307.5	260.5	222.8	191.4	175.7	166.3	166.3
52.5°	17545.3	6226.0	608.8	326.4	266.7	229.1	191.4	166.3	156.9	150.6	147.5
55°	17915.6	6056.6	517.8	282.4	229.1	194.6	169.5	150.6	138.1	131.8	128.7
57°	18132.1	5827.5	448.8	247.9	197.7	169.5	150.6	134.9	122.4	109.8	109.8
57.5°	18141.5	5739.6	429.9	244.8	188.3	163.2	147.5	131.8	116.1	103.6	100.4
60°	17862.2	5137.1	345.2	207.1	150.6	138.1	122.4	103.6	81.6	69.0	65.9
62.5°	16964.7	4371.4	285.6	175.7	122.4	106.7	87.9	78.5	56.5	40.8	40.8
65°	15605.9	3546.1	244.8	141.2	100.4	78.5	59.6	56.5	34.5	18.8	15.7
67.5°	13641.4	2761.6	207.1	116.1	84.7	56.5	40.8	37.7	18.8	6.3	0.0
70°	10393.5	1882.9	172.6	94.1	62.8	40.8	28.2	22.0	12.6	3.1	0.0
72.5°	5990.7	1035.6	144.4	72.2	47.1	31.4	22.0	12.6	12.6	0.0	0.0
75°	2140.2	445.6	109.8	53.3	37.7	25.1	15.7	6.3	9.4	3.1	0.0
77.5°	681.0	238.5	72.2	40.8	31.4	18.8	12.6	6.3	6.3	3.1	0.0
80°	200.8	125.5	43.9	34.5	22.0	15.7	9.4	3.1	6.3	3.1	0.0
82.5°	109.8	62.8	34.5	25.1	22.0	12.6	9.4	3.1	3.1	3.1	0.0
85°	56.5	37.7	28.2	25.1	22.0	12.6	9.4	3.1	0.0	3.1	3.1
87.5°	31.4	28.2	28.2	25.1	22.0	15.7	9.4	3.1	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)