

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: P457896

Luminaire Tested: **GALN-SA9B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34491 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

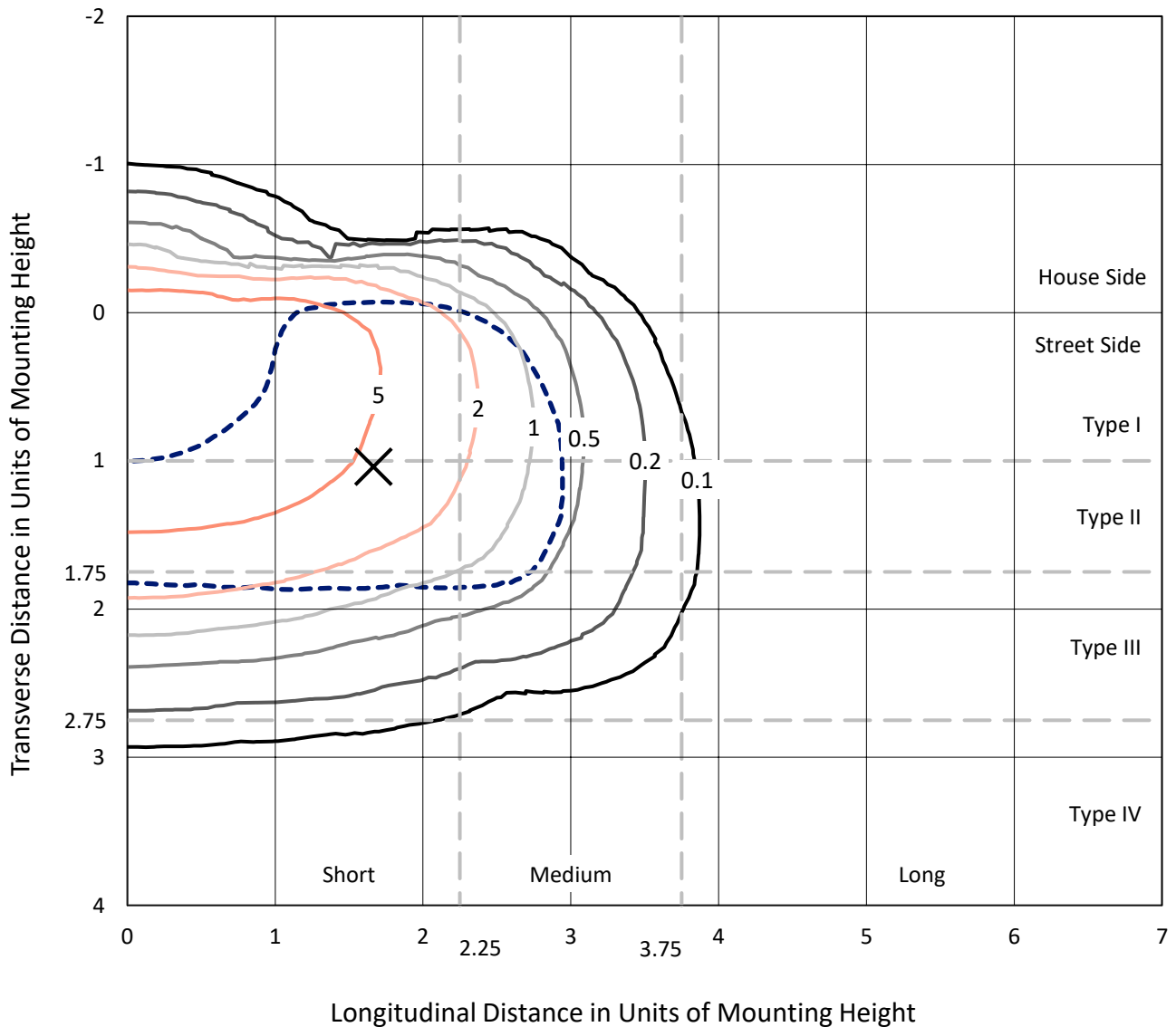
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457896
 CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

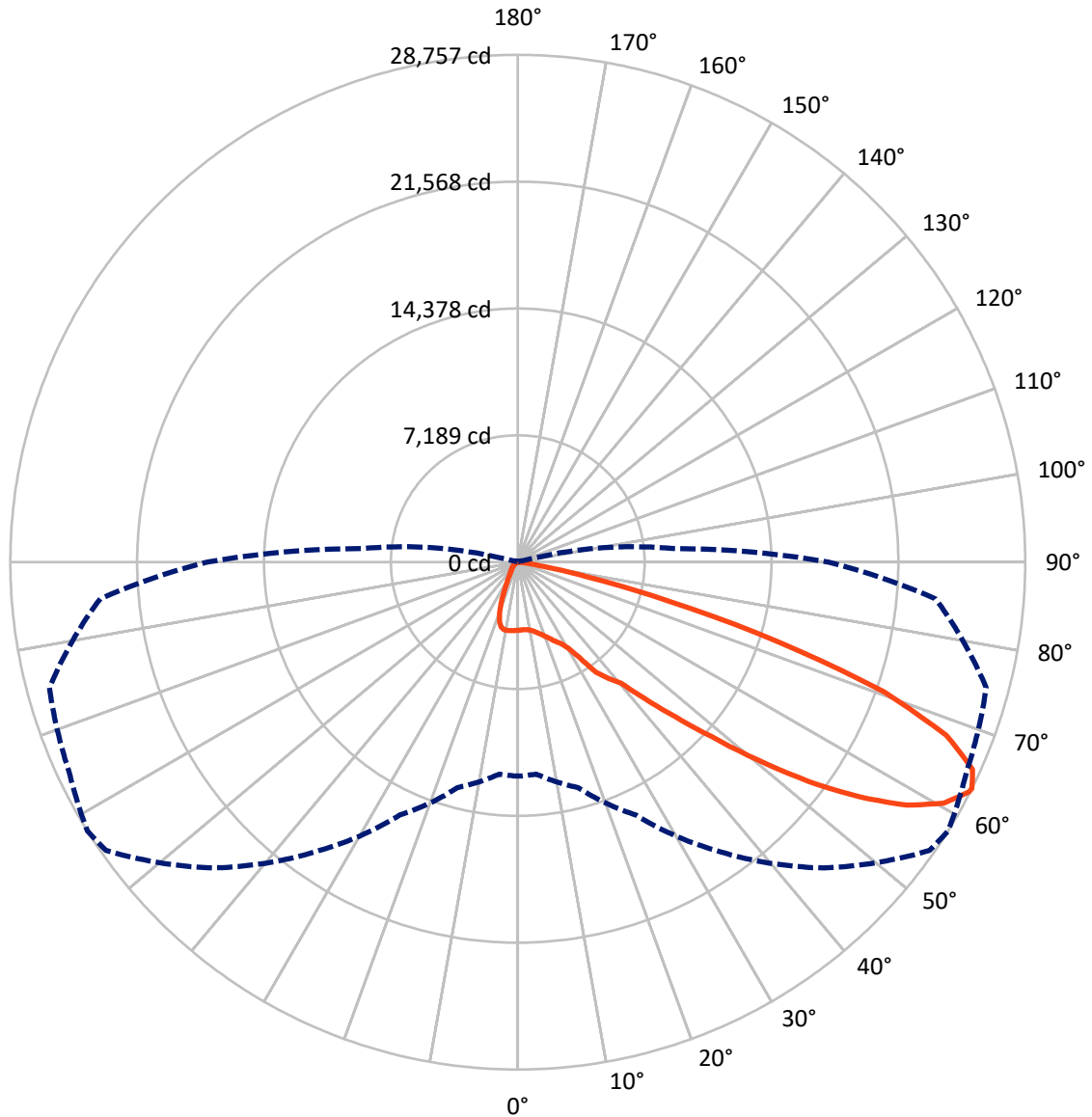
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

REPORT NUMBER: P457896
CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P457896

CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3571.3	0.0	3571.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30919.7	0.0	30919.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	34491.0	0.0	34491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.0
10°-20°	984.5	2.9
20°-30°	1708.7	5.0
30°-40°	3140.0	9.1
40°-50°	5910.9	17.1
50°-60°	10110.2	29.3
60°-70°	9680.5	28.1
70°-80°	2468.6	7.2
80°-90°	126.2	0.4
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°	34491.0	100.0
0°-180°	34491.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457896

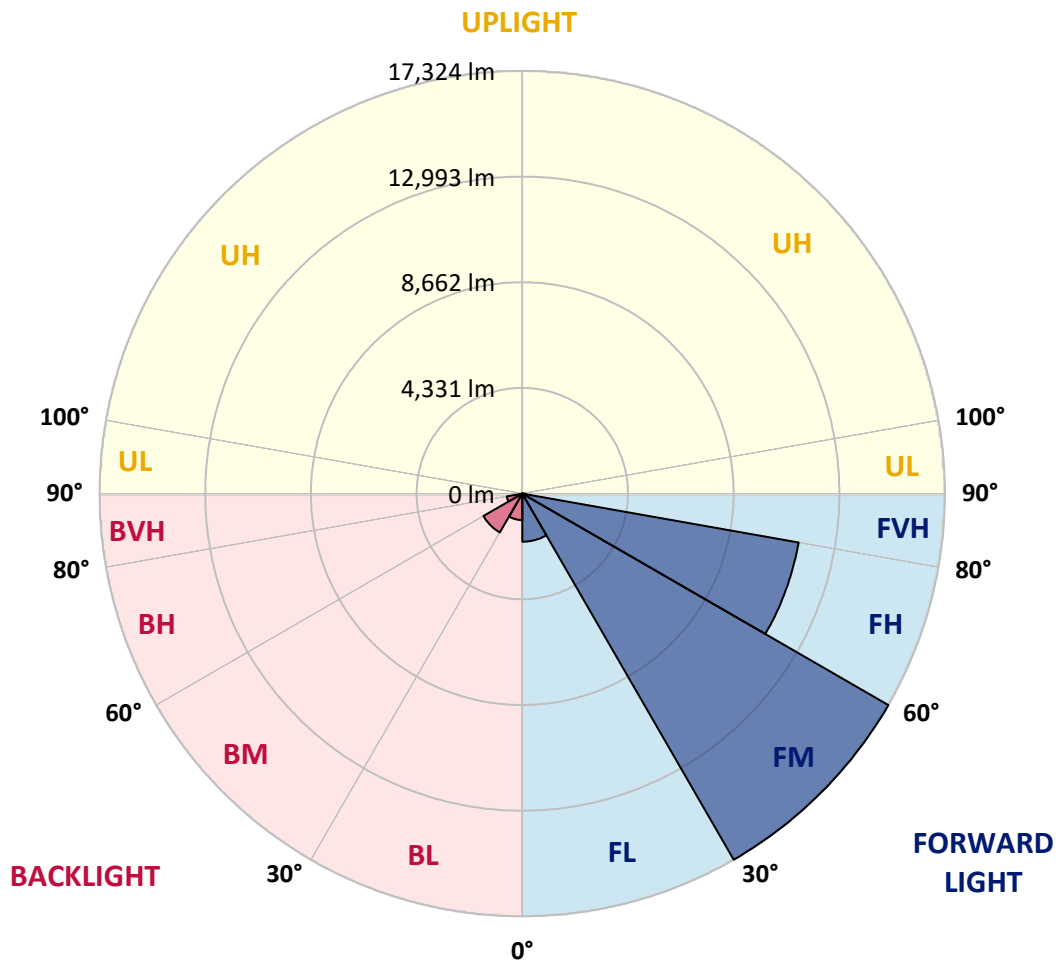
CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1971.6	5.7			
FM (30°-60°)	17324.1	50.2			
FH (60°-80°)	11502.6	33.3			G4/12000
FVH (80°-90°)	121.3	0.4			G2/225
BL (0°-30°)	1083.1	3.1	B3/2500		
BM (30°-60°)	1836.9	5.3	B2/2500		
BH (60°-80°)	646.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P457896

CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4
2.5°	3765.3	3778.3	3791.3	3796.5	3814.7	3832.8	3845.8	3843.2	3864.0	3874.4	3874.4
5°	3614.7	3614.7	3648.5	3679.6	3731.6	3783.5	3832.8	3843.2	3882.2	3918.5	3931.5
7.5°	3487.5	3495.3	3521.2	3578.4	3648.5	3739.4	3838.0	3861.4	3928.9	4009.4	4043.2
10°	3427.7	3432.9	3466.7	3526.4	3614.7	3739.4	3877.0	3921.1	4025.0	4152.2	4199.0
12.5°	3414.8	3422.5	3456.3	3523.8	3625.1	3775.7	3962.7	4009.4	4160.0	4323.6	4393.7
15°	3438.1	3443.3	3477.1	3549.8	3661.4	3840.6	4076.9	4141.9	4321.0	4510.6	4601.5
17.5°	3521.2	3516.0	3539.4	3599.1	3723.8	3921.1	4214.6	4292.5	4502.8	4762.5	4822.2
20°	3874.4	3840.6	3819.9	3767.9	3817.3	4035.4	4380.8	4495.0	4754.7	5019.6	5061.1
22.5°	4635.2	4559.9	4411.9	4209.4	4053.6	4191.2	4580.7	4713.1	5048.1	5307.8	5307.8
25°	5603.8	5507.8	5359.7	4918.3	4536.6	4448.3	4806.6	4972.8	5367.5	5629.8	5544.1
27.5°	6816.5	6741.2	6453.0	5938.8	5354.5	4897.5	5068.9	5222.1	5650.6	5967.4	5788.2
30°	7803.3	7766.9	7530.6	7071.0	6427.0	5759.6	5557.1	5658.4	6027.1	6393.3	6208.9
32.5°	8636.9	8636.9	8395.4	7966.9	7364.4	6772.4	6385.5	6458.2	6811.3	7234.6	6891.8
35°	9553.5	9522.4	9327.6	8919.9	8244.8	7722.8	7564.4	7663.1	7982.5	8296.7	7452.7
37.5°	10516.9	10506.5	10304.0	9909.3	9358.8	8701.8	8330.4	8356.4	8520.0	8712.2	8109.7
40°	11563.4	11579.0	11314.1	11070.0	10550.7	9878.1	9166.6	9003.0	9156.2	9698.9	9322.4
42.5°	12799.5	12763.1	12648.9	12316.5	11898.4	11495.9	10641.6	10581.8	10716.9	11298.6	10890.9
45°	14235.5	14287.4	14090.1	13905.7	13625.3	13290.3	12576.2	12472.3	12620.3	13524.0	12944.9
47.5°	15674.1	15624.8	15752.0	15718.3	15868.9	15619.6	14988.6	14775.6	15131.4	15988.3	15136.6
50°	16770.0	16824.5	17089.4	17476.3	18122.9	18263.1	17658.1	17585.3	17743.7	18294.3	17097.2
52.5°	17481.5	17663.2	18078.7	19073.3	20239.2	21145.5	20685.9	20646.9	20582.0	20730.0	18972.0
55°	17946.3	18130.7	18673.4	20138.0	22145.3	23617.6	23641.0	23474.8	23046.4	22939.9	20724.8
57.5°	17660.7	17697.0	18470.8	20428.8	23202.2	25380.9	26144.3	25978.1	25186.1	24783.6	22272.5
60°	15874.1	15949.4	17027.0	19327.8	22742.5	25957.3	27803.6	27728.3	26861.0	26406.6	23477.4
62.5°	12708.6	12926.7	14035.6	16601.2	20605.4	24986.1	28476.2	28689.1	28014.0	27388.2	23856.5
63°	12126.9	12056.8	13228.0	15806.6	20039.3	24505.7	28486.6	28756.7	28065.9	27481.6	23752.7
65°	8977.0	9187.4	9948.2	12464.5	16676.5	22269.9	27845.2	28323.0	27873.8	27068.8	22602.3
67.5°	5040.3	5029.9	5871.3	8156.5	11672.5	17468.5	25178.3	26188.5	26095.0	24290.2	18735.7
70°	2466.9	2505.9	2851.3	4227.5	6769.8	12051.6	20922.2	22012.8	22046.6	19078.5	12955.3
72.5°	1116.6	1134.8	1381.5	2059.2	3479.7	6416.6	14417.3	15458.6	15266.4	12158.1	7154.1
75°	589.5	628.4	760.9	1036.1	1677.5	2646.1	7842.3	8849.8	8447.3	5554.5	2633.1
77.5°	436.3	449.2	516.8	659.6	898.5	1030.9	3383.6	4025.0	3770.5	2009.9	872.5
80°	319.4	329.8	384.3	467.4	566.1	524.5	1275.0	1462.0	1311.4	683.0	267.5
82.5°	194.8	197.4	280.5	348.0	355.8	293.4	420.7	451.8	472.6	384.3	145.4
85°	70.1	88.3	189.6	251.9	210.3	148.0	176.6	194.8	212.9	244.1	85.7
87.5°	7.8	10.4	90.9	122.0	59.7	54.5	64.9	72.7	77.9	90.9	41.5
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: P457896
 CATALOG NUMBER: GALN-SA9B-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4	3861.4
2.5°	3884.8	3895.2	3887.4	3874.4	3871.8	3864.0	3848.4	3848.4	3848.4	3853.6	3848.4
5°	3941.9	3949.7	3931.5	3905.5	3877.0	3840.6	3801.7	3778.3	3775.7	3770.5	3757.5
7.5°	4051.0	4061.4	4019.8	3957.5	3879.6	3791.3	3708.2	3630.3	3593.9	3565.4	3565.4
10°	4209.4	4219.8	4136.7	4025.0	3869.2	3690.0	3492.7	3313.5	3173.3	3108.3	3092.8
12.5°	4398.9	4404.1	4266.5	4071.7	3814.7	3469.3	3048.6	2656.5	2383.8	2259.2	2246.2
15°	4606.7	4570.3	4388.5	4089.9	3658.9	3014.9	2287.8	1807.4	1524.3	1441.2	1472.4
17.5°	4817.0	4749.5	4482.0	4061.4	3308.3	2287.8	1537.3	1233.5	1145.2	1121.8	1121.8
20°	5014.4	4920.9	4549.5	3936.7	2700.6	1576.2	1140.0	1067.3	1051.7	1036.1	1038.7
22.5°	5211.7	5068.9	4609.3	3658.9	2012.5	1127.0	1020.5	997.2	976.4	955.6	953.0
25°	5403.9	5206.5	4632.6	3144.7	1371.1	968.6	932.2	901.1	859.5	836.2	831.0
27.5°	5603.8	5372.7	4617.1	2495.5	999.8	867.3	831.0	786.8	737.5	695.9	695.9
30°	5988.2	5689.5	4562.5	1794.4	841.4	763.5	716.7	646.6	592.1	550.5	547.9
32.5°	6512.7	6102.4	4375.6	1262.0	747.9	672.6	602.5	524.5	467.4	436.3	436.3
35°	6980.1	6517.9	4025.0	929.6	672.6	584.3	498.6	423.3	379.1	358.4	350.6
37.5°	7691.6	7125.5	3542.0	755.7	599.9	506.4	418.1	348.0	311.6	296.0	296.0
40°	8758.9	7868.2	2949.9	662.2	529.7	431.1	348.0	293.4	264.9	246.7	246.7
42.5°	10083.3	8777.1	2350.1	594.7	464.8	371.3	290.8	249.3	223.3	210.3	207.7
45°	11750.4	9735.3	1810.0	532.3	412.9	316.8	246.7	210.3	184.4	176.6	179.2
47.5°	13490.2	10579.3	1402.3	477.8	358.4	267.5	210.3	181.8	163.6	153.2	153.2
50°	14975.6	11160.9	1064.7	415.5	316.8	225.9	184.4	163.6	148.0	142.8	140.2
52.5°	16216.8	11329.7	815.4	361.0	277.9	194.8	163.6	148.0	135.0	127.2	127.2
55°	17273.7	11181.7	638.8	303.8	233.7	168.8	145.4	132.4	116.9	109.1	106.5
57.5°	17891.8	10706.5	488.2	251.9	189.6	140.2	127.2	111.7	93.5	80.5	80.5
60°	18203.4	10015.8	373.9	207.7	145.4	111.7	103.9	83.1	64.9	54.5	51.9
62.5°	17829.4	9099.1	283.0	163.6	109.1	83.1	70.1	59.7	41.5	31.2	31.2
63°	17598.3	8834.2	272.7	155.8	101.3	77.9	64.9	54.5	36.4	28.6	26.0
65°	16042.9	7678.7	223.3	124.6	80.5	54.5	44.1	39.0	26.0	13.0	10.4
67.5°	12739.8	5873.9	176.6	93.5	57.1	39.0	26.0	23.4	7.8	0.0	0.0
70°	8613.5	3793.9	137.6	67.5	39.0	23.4	13.0	10.4	2.6	0.0	0.0
72.5°	4492.4	1945.0	106.5	49.3	23.4	15.6	7.8	2.6	0.0	0.0	0.0
75°	1589.2	662.2	77.9	31.2	15.6	7.8	2.6	0.0	0.0	0.0	0.0
77.5°	480.4	246.7	49.3	23.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	168.8	90.9	28.6	15.6	7.8	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	83.1	44.1	18.2	13.0	7.8	2.6	0.0	0.0	0.0	0.0	0.0
85°	46.7	28.6	15.6	13.0	7.8	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	33.8	20.8	15.6	13.0	10.4	5.2	2.6	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)