

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: P458277

Luminaire Tested: **GALN-SA9C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36470 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

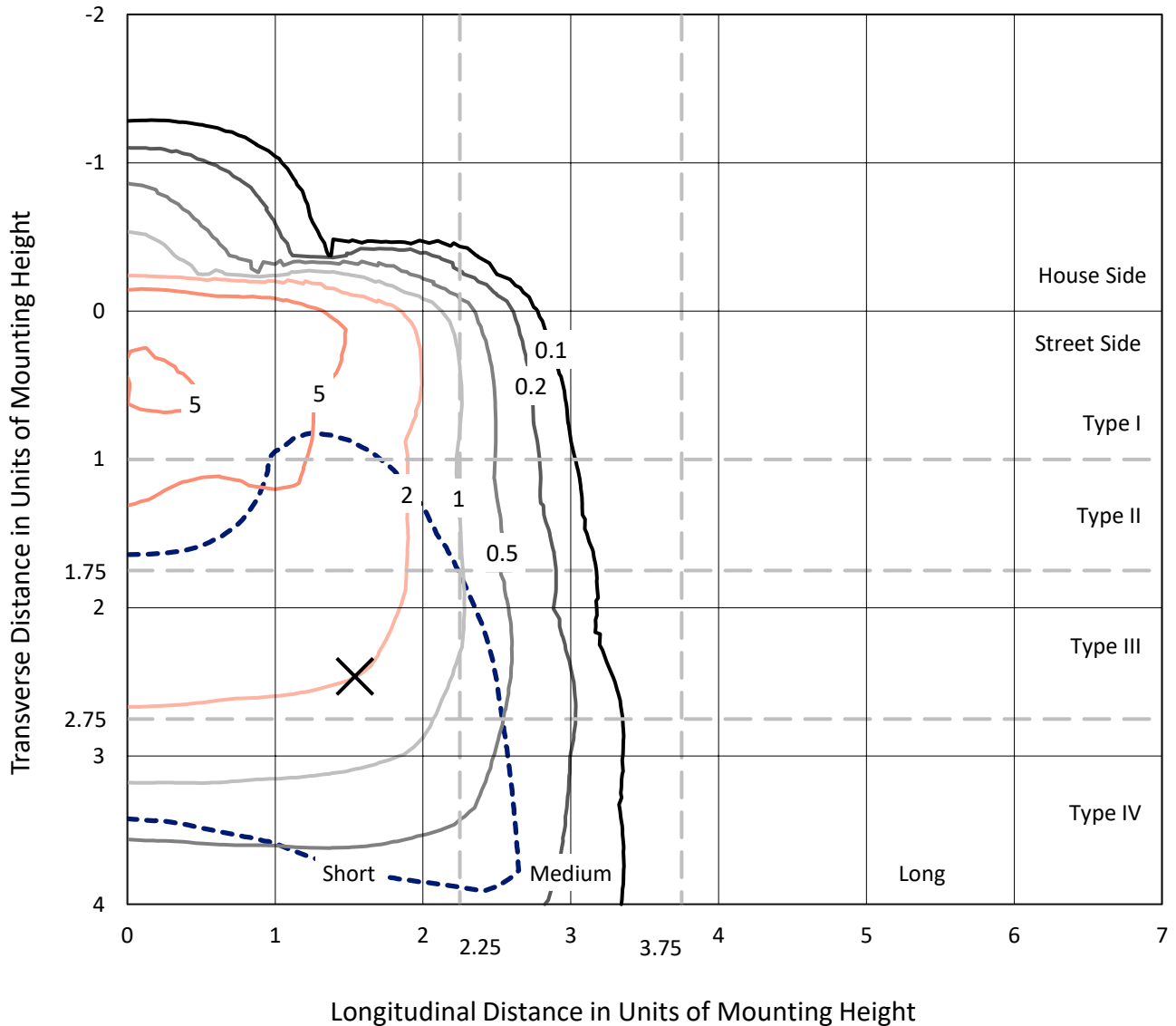
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

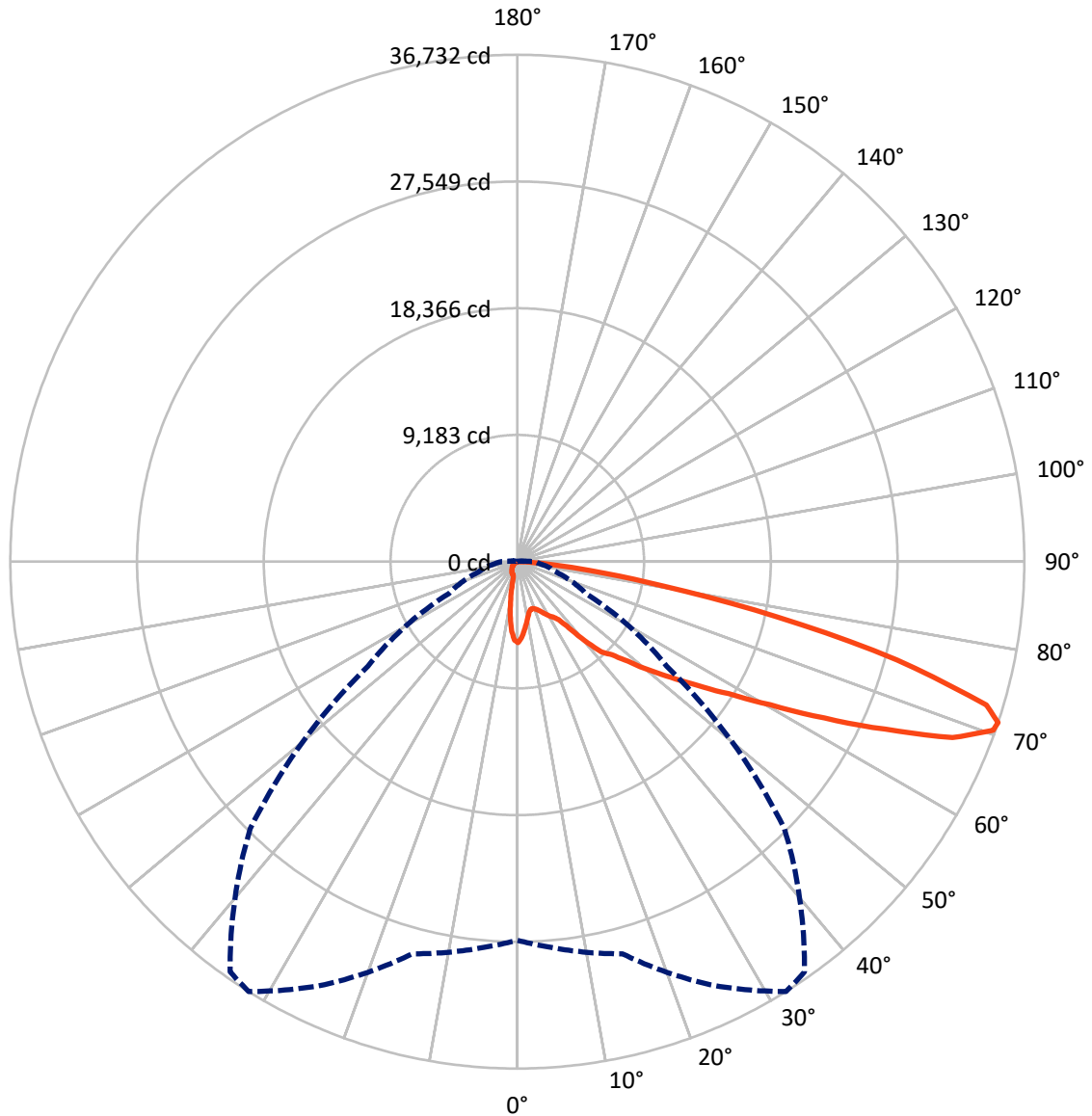
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P458277
CATALOG NUMBER: GALN-SA9C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3054.8	0.0	3054.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	33415.2	0.0	33415.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	36470.0	0.0	36470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	1.3
10°-20°	1035.0	2.8
20°-30°	1610.2	4.4
30°-40°	2682.6	7.4
40°-50°	4990.0	13.7
50°-60°	8011.6	22.0
60°-70°	10776.0	29.5
70°-80°	6393.5	17.5
80°-90°	494.2	1.4
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°	36470.0	100.0
0°-180°	36470.0	100.0

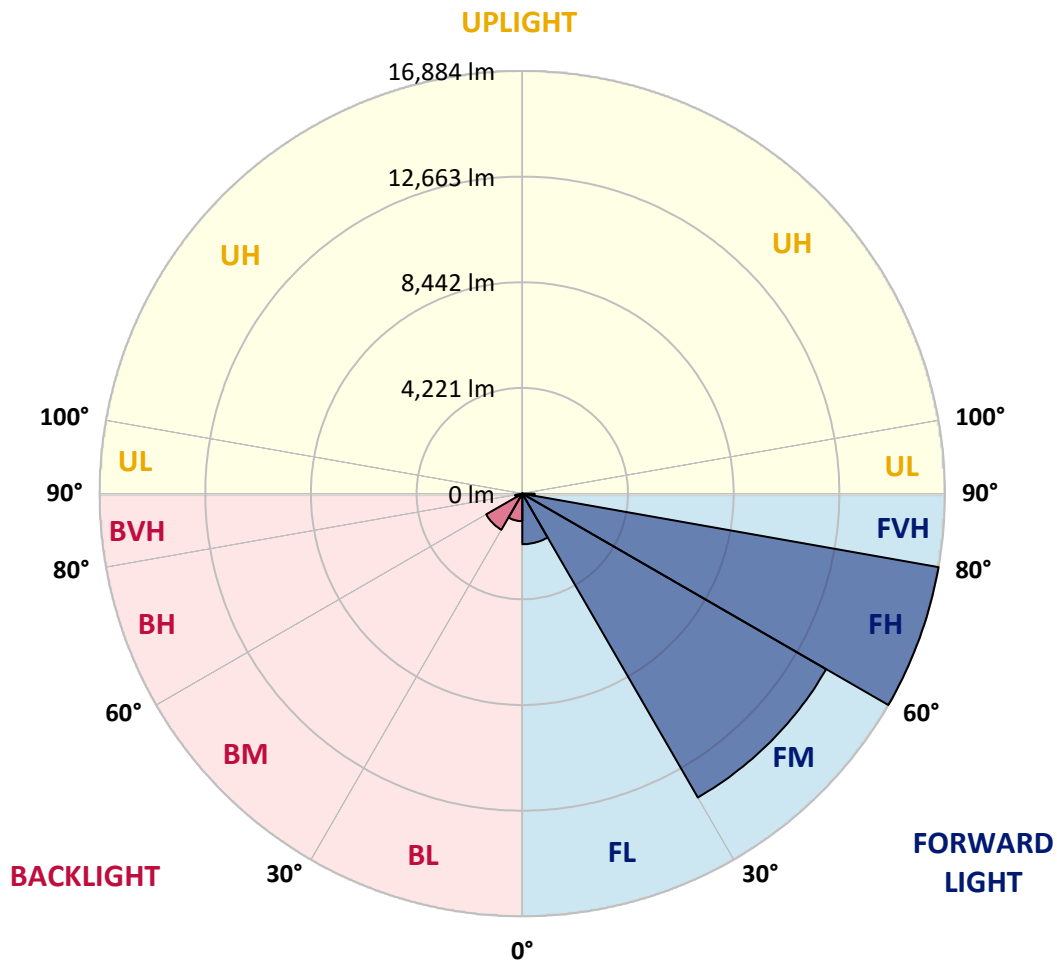


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2021.4	5.5			
FM	(30°-60°)	14017.7	38.4			
FH	(60°-80°)	16883.8	46.3			G5
FVH	(80°-90°)	492.3	1.3			G3/500
BL	(0°-30°)	1100.7	3.0	B3/2500		
BM	(30°-60°)	1666.4	4.6	B2/2500		
BH	(60°-80°)	285.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.9	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9
2.5°	5439.4	5495.4	5487.0	5506.6	5554.2	5573.8	5627.0	5685.8	5767.0	5823.0	5859.3
5°	4871.1	4913.1	4918.7	5016.7	5064.3	5117.5	5274.3	5445.0	5635.4	5786.6	5887.3
7.5°	4263.6	4286.0	4330.8	4459.6	4580.0	4633.2	4871.1	5167.9	5467.4	5750.2	5932.1
10°	3762.5	3787.7	3868.9	4006.1	4118.1	4188.0	4518.4	4890.7	5310.6	5730.6	5996.5
12.5°	3477.0	3491.0	3521.8	3644.9	3787.7	3863.3	4218.8	4644.4	5184.7	5739.0	6105.7
15°	3457.4	3451.8	3415.4	3465.8	3594.6	3672.9	4020.1	4476.4	5072.7	5767.0	6234.5
17.5°	3561.0	3547.0	3460.2	3460.2	3566.6	3630.9	3936.1	4386.8	5016.7	5831.4	6416.4
20°	3720.5	3698.1	3555.4	3544.2	3647.7	3714.9	3986.5	4392.4	5027.9	5951.7	6660.0
22.5°	3922.1	3896.9	3681.3	3686.9	3798.9	3866.1	4132.1	4493.2	5097.9	6100.1	6920.4
25°	4185.2	4157.3	3902.5	3891.3	4008.9	4067.7	4347.6	4672.4	5195.9	6284.9	7261.9
27.5°	4535.2	4476.4	4171.3	4154.5	4280.4	4356.0	4608.0	4913.1	5369.4	6539.6	7721.0
30°	4823.5	4759.1	4468.0	4423.2	4557.6	4616.4	4876.7	5237.9	5711.0	6984.7	8356.5
32.5°	5201.5	5106.3	4764.7	4647.2	4789.9	4865.5	5265.9	5842.5	6217.7	7455.1	9112.4
35°	6052.5	5993.7	5576.6	5165.1	5156.7	5251.9	5839.8	6452.8	6738.4	8188.5	10142.6
37.5°	7270.3	7228.3	6786.0	6234.5	6074.9	6030.1	6536.8	7124.7	7569.8	9196.3	11340.8
40°	8684.0	8586.1	8180.1	7712.6	7505.5	7373.9	7359.9	8124.1	8656.0	10565.3	12589.3
42.5°	9697.5	9518.3	9025.6	8992.0	8947.2	8810.0	8412.5	9585.5	10058.6	12037.8	13924.7
45°	10761.3	10489.7	9756.2	9630.3	9613.5	9605.1	10002.6	11315.6	11587.1	13633.5	15296.5
47.5°	11587.1	11371.6	10769.7	10713.7	10783.7	10974.0	12105.0	13152.0	13096.0	15055.7	16447.0
50°	12687.3	12524.9	11855.9	11962.2	12323.4	12634.1	14476.2	15153.7	14336.2	16175.5	17284.1
52.5°	13986.3	13686.7	13065.3	13353.6	13907.9	14425.8	16992.9	16906.2	15206.9	17018.1	17908.4
55°	15111.7	14898.9	14686.2	14985.7	15814.4	16461.0	19266.1	18219.1	15839.6	17695.6	18182.7
57.5°	17015.3	16965.0	16746.6	17051.7	18056.8	18728.6	21301.4	19238.1	16245.5	18048.4	17860.8
60°	19831.6	19750.4	19344.5	19733.7	21043.8	22099.2	23177.0	20153.6	16337.9	17911.2	16934.2
62.5°	23219.0	22941.9	22594.7	23168.6	24965.9	25430.6	24943.5	20696.7	15993.5	16819.4	14700.2
65°	26382.5	26096.9	26105.3	27314.7	29271.5	29587.9	27003.9	20615.5	14985.7	14084.3	10842.5
67.5°	28804.0	28756.4	29098.0	31457.9	34016.7	33798.3	28846.0	19400.5	11998.6	9129.2	5761.4
70°	28927.2	29019.6	29999.4	33983.1	36581.0	36233.9	28689.2	15769.6	7480.3	4199.2	2270.4
71°	27437.9	28059.4	29414.3	33904.7	36732.2	36281.5	27367.9	13208.0	5487.0	2928.3	1637.7
72.5°	23381.4	23708.9	26637.2	31908.7	35536.8	34573.8	24016.9	9257.9	3513.4	1791.7	940.6
75°	12877.7	13683.9	17838.4	25033.1	28423.3	27577.8	15652.0	4398.0	1752.5	979.8	389.1
77.5°	6130.9	5974.1	8703.6	14887.7	19271.7	19226.9	7886.2	1954.0	1021.8	663.5	196.0
80°	1752.5	1970.8	3331.4	7077.1	10699.7	10817.3	3029.1	943.4	708.3	517.9	100.8
82.5°	529.1	540.3	1223.4	3129.8	5321.8	5016.7	1136.6	481.5	509.5	411.5	58.8
85°	92.4	114.8	361.1	1103.0	2029.6	1539.7	285.5	229.6	335.9	271.6	33.6
87.5°	5.6	8.4	120.4	126.0	179.2	103.6	50.4	33.6	72.8	72.8	19.6
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°	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9	5864.9
2.5°	5884.5	5901.3	5890.1	5864.9	5823.0	5772.6	5705.4	5649.4	5601.8	5576.6	5607.4
5°	5920.9	5943.3	5887.3	5761.4	5571.0	5363.8	5128.7	4946.7	4803.9	4759.1	4742.3
7.5°	5976.9	5990.9	5839.8	5559.8	5156.7	4666.8	4238.4	3877.3	3597.4	3513.4	3390.2
10°	6049.7	6041.3	5755.8	5235.1	4526.8	3790.5	3127.0	2634.3	2262.0	2127.6	2116.4
12.5°	6161.7	6116.9	5649.4	4792.7	3776.5	2813.5	1993.2	1559.3	1324.2	1245.8	1229.0
15°	6301.7	6195.3	5481.4	4274.8	2891.9	1816.9	1229.0	1097.4	1066.6	1061.0	1055.4
17.5°	6466.8	6298.9	5260.3	3639.3	2032.4	1178.6	1027.4	1024.6	1027.4	1021.8	1019.0
20°	6690.8	6408.0	4997.1	2886.3	1343.8	993.8	979.8	979.8	982.6	979.8	979.8
22.5°	6928.8	6536.8	4672.4	2203.2	1013.4	943.4	940.6	946.2	951.8	949.0	949.0
25°	7222.7	6704.8	4244.0	1508.9	907.0	901.4	904.2	915.4	926.6	929.4	926.6
27.5°	7648.2	6912.0	3784.9	1038.6	831.5	837.0	865.0	893.0	909.8	912.6	912.6
30°	8126.9	7141.5	3185.8	842.6	769.9	769.9	803.5	856.6	893.0	898.6	901.4
32.5°	8742.8	7407.5	2522.3	758.7	711.1	705.5	736.3	800.7	867.8	887.4	887.4
35°	9504.3	7721.0	1875.7	705.5	669.1	655.1	671.9	725.1	811.9	867.8	873.4
37.5°	10397.3	8017.8	1371.8	657.9	629.9	610.3	621.5	663.5	733.5	817.5	839.8
40°	11223.2	8280.9	1024.6	618.7	590.7	576.7	585.1	604.7	663.5	741.9	755.9
42.5°	12124.6	8485.3	814.7	576.7	551.5	545.9	545.9	554.3	593.5	638.3	641.1
45°	13023.3	8558.1	683.1	526.3	509.5	515.1	512.3	506.7	523.5	517.9	517.9
47.5°	13664.3	8471.3	565.5	478.7	478.7	487.1	473.1	453.5	445.1	411.5	414.3
50°	14103.9	8154.9	464.7	422.7	445.1	456.3	428.3	397.5	366.7	330.3	321.9
52.5°	14285.8	7592.2	380.7	349.9	394.7	408.7	375.1	338.7	291.1	260.4	252.0
55°	14168.3	6898.0	316.3	285.5	333.1	349.9	316.3	274.4	221.2	187.6	182.0
57.5°	13650.3	6069.3	268.8	226.8	266.0	277.2	254.8	210.0	156.8	123.2	123.2
60°	12754.5	5212.7	218.4	179.2	198.8	215.6	193.2	151.2	106.4	75.6	70.0
62.5°	10937.6	4232.8	176.4	140.0	140.0	154.0	134.4	109.2	67.2	39.2	36.4
65°	7897.4	2903.1	140.0	103.6	100.8	100.8	84.0	72.8	39.2	16.8	11.2
67.5°	4291.6	1637.7	112.0	78.4	70.0	67.2	53.2	42.0	16.8	2.8	0.0
70°	1688.1	629.9	86.8	53.2	44.8	42.0	28.0	19.6	11.2	0.0	0.0
71°	1145.0	433.9	75.6	44.8	36.4	30.8	22.4	16.8	8.4	0.0	0.0
72.5°	655.1	268.8	58.8	33.6	28.0	22.4	16.8	11.2	8.4	0.0	0.0
75°	285.5	137.2	36.4	25.2	19.6	14.0	11.2	8.4	2.8	0.0	0.0
77.5°	145.6	75.6	25.2	19.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0
80°	81.2	39.2	16.8	11.2	8.4	5.6	2.8	2.8	0.0	0.0	0.0
82.5°	44.8	22.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	5.6	0.0	0.0	0.0	0.0	2.8	2.8	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)