

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: P459553

Luminaire Tested: **GALN-SA9D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459553
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-SA9D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 47043 lumens
Efficiency: N/A
Efficacy: 85.2 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

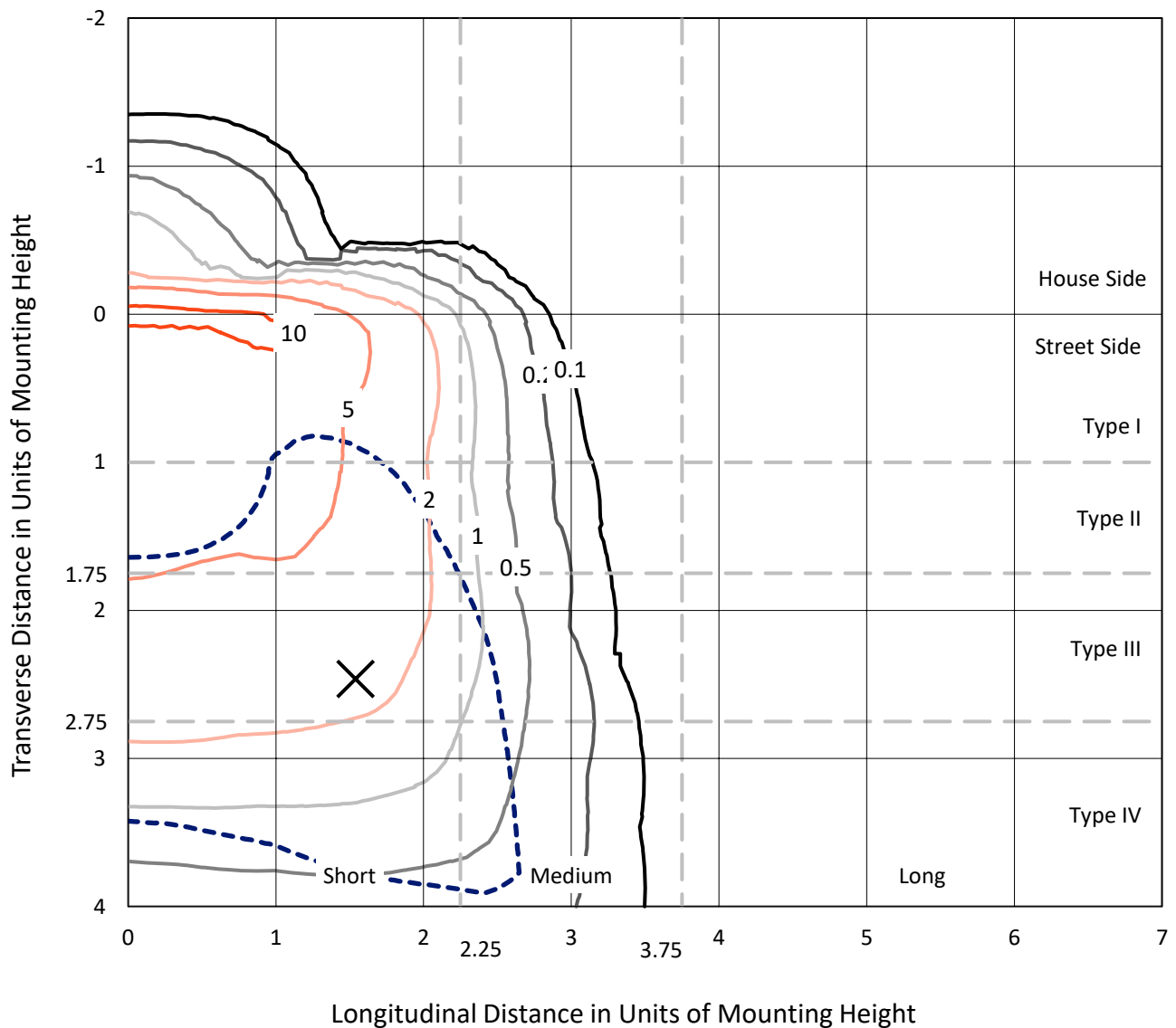
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

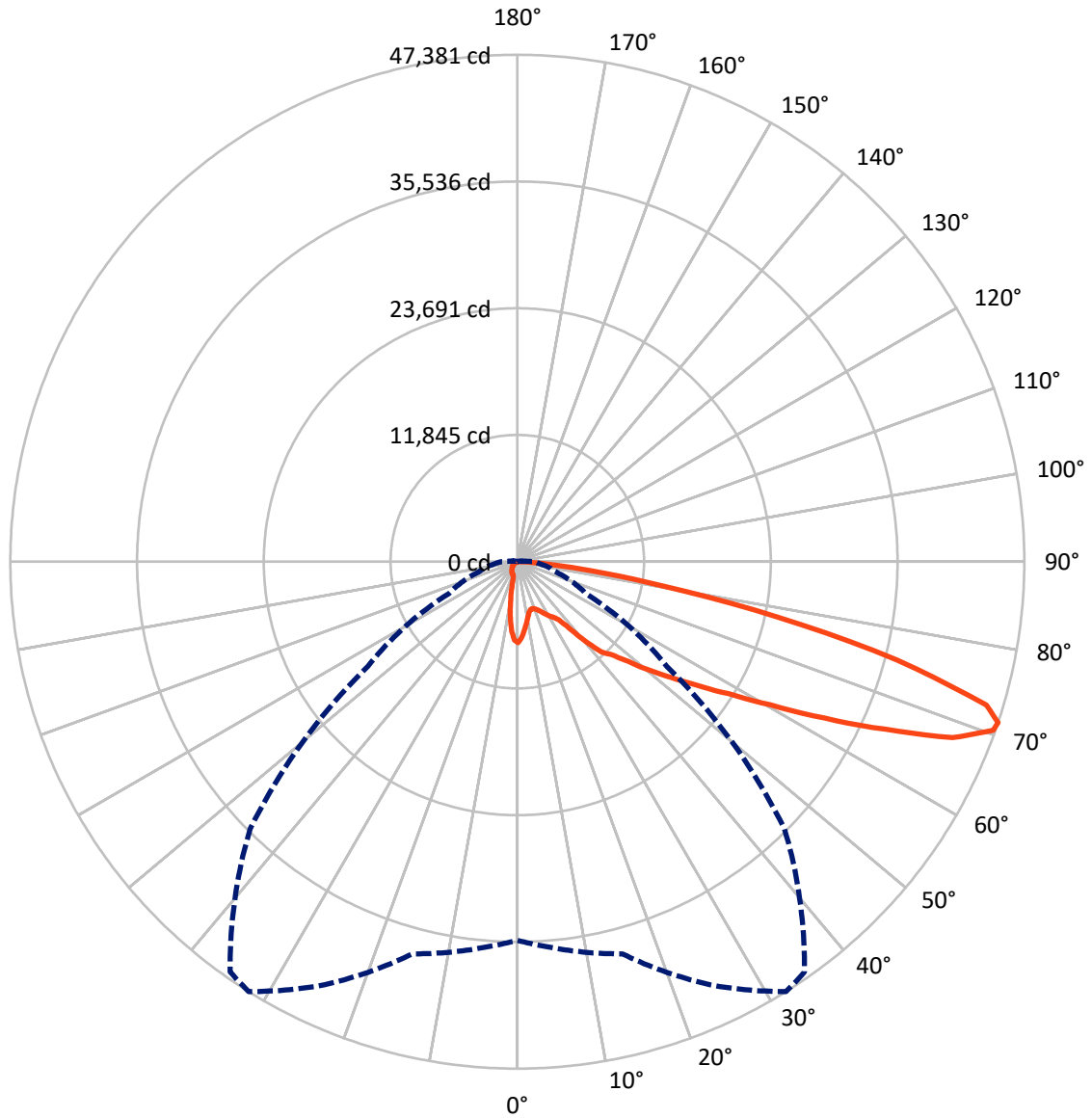
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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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	3940.4	0.0	3940.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	43102.6	0.0	43102.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	47043.0	0.0	47043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	1.3
10°-20°	1335.1	2.8
20°-30°	2077.0	4.4
30°-40°	3460.2	7.4
40°-50°	6436.6	13.7
50°-60°	10334.3	22.0
60°-70°	13900.1	29.5
70°-80°	8247.1	17.5
80°-90°	637.5	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°	47043.0	100.0
0°-180°	47043.0	100.0



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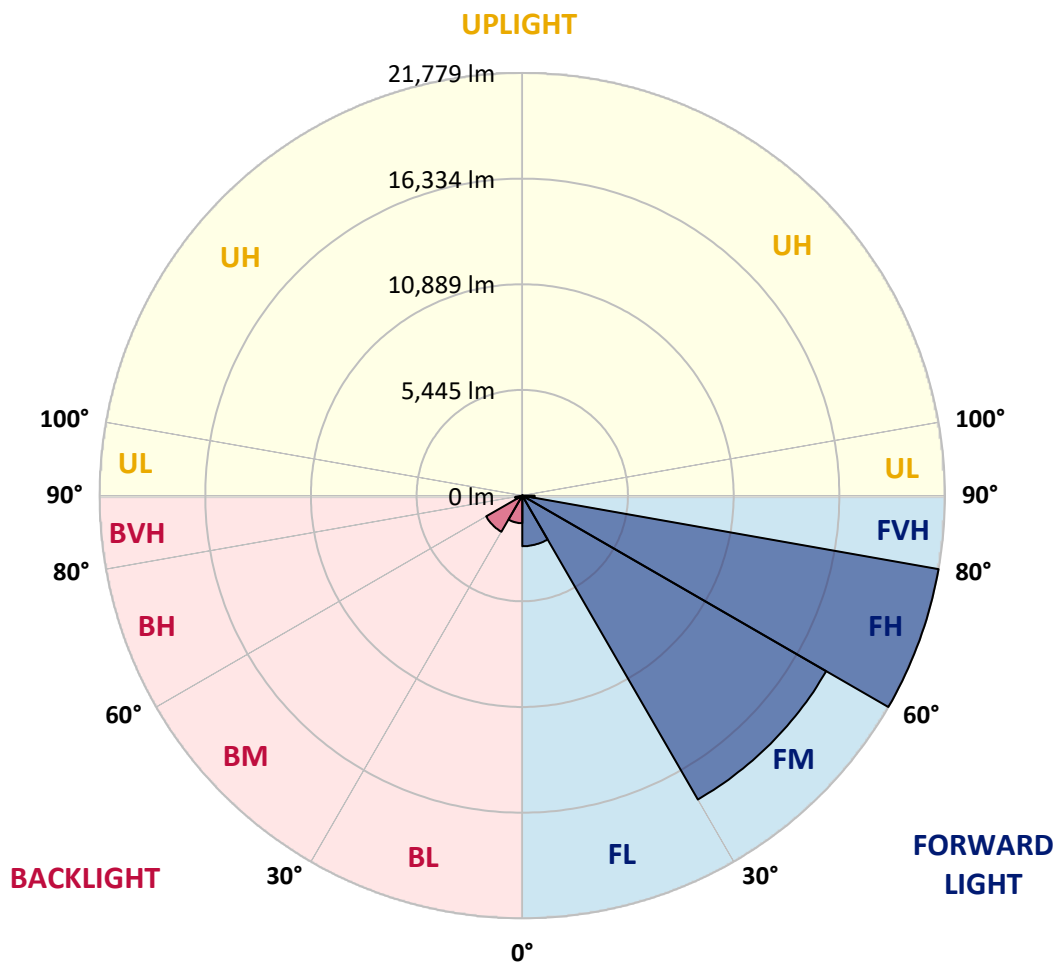
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.4	5.5			
FM	(30°-60°)	18081.6	38.4			
FH	(60°-80°)	21778.6	46.3			G5
FVH	(80°-90°)	635.0	1.3			G4/750
BL	(0°-30°)	1419.8	3.0	B3/2500		
BM	(30°-60°)	2149.6	4.6	B2/2500		
BH	(60°-80°)	368.5	0.8	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2
2.5°	7016.4	7088.6	7077.8	7103.0	7164.4	7189.7	7258.3	7334.1	7438.9	7511.1	7558.0
5°	6283.3	6337.5	6344.7	6471.1	6532.5	6601.1	6803.3	7023.6	7269.1	7464.1	7594.1
7.5°	5499.7	5528.6	5586.4	5752.5	5907.8	5976.4	6283.3	6666.1	7052.5	7417.2	7651.9
10°	4853.3	4885.8	4990.5	5167.5	5311.9	5402.2	5828.3	6308.6	6850.3	7391.9	7735.0
12.5°	4485.0	4503.0	4542.8	4701.6	4885.8	4983.3	5441.9	5990.8	6687.8	7402.7	7875.8
15°	4459.7	4452.5	4405.5	4470.5	4636.6	4737.8	5185.5	5774.1	6543.3	7438.9	8041.9
17.5°	4593.3	4575.3	4463.3	4463.3	4600.5	4683.6	5077.2	5658.6	6471.1	7521.9	8276.6
20°	4799.1	4770.3	4586.1	4571.6	4705.3	4791.9	5142.2	5665.8	6485.5	7677.2	8590.8
22.5°	5059.1	5026.6	4748.6	4755.8	4900.3	4986.9	5330.0	5795.8	6575.8	7868.6	8926.6
25°	5398.6	5362.5	5033.9	5019.4	5171.1	5246.9	5608.0	6026.9	6702.2	8106.9	9367.2
27.5°	5850.0	5774.1	5380.5	5358.9	5521.4	5618.9	5943.9	6337.5	6926.1	8435.5	9959.4
30°	6221.9	6138.9	5763.3	5705.5	5878.9	5954.7	6290.5	6756.4	7366.6	9009.7	10779.1
32.5°	6709.4	6586.6	6146.1	5994.4	6178.6	6276.1	6792.5	7536.4	8020.2	9616.4	11754.1
35°	7807.2	7731.4	7193.3	6662.5	6651.6	6774.4	7532.7	8323.6	8691.9	10562.5	13083.0
37.5°	9378.0	9323.9	8753.3	8041.9	7836.1	7778.3	8431.9	9190.2	9764.4	11862.5	14628.6
40°	11201.6	11075.2	10551.6	9948.6	9681.4	9511.6	9493.6	10479.4	11165.5	13628.3	16239.1
42.5°	12508.8	12277.7	11642.2	11598.8	11541.1	11364.1	10851.3	12364.4	12974.7	15527.7	17961.6
45°	13881.1	13530.8	12584.7	12422.2	12400.5	12389.7	12902.5	14596.1	14946.3	17586.0	19731.0
47.5°	14946.3	14668.3	13891.9	13819.7	13909.9	14155.5	15614.4	16964.9	16892.7	19420.5	21215.2
50°	16365.5	16156.1	15293.0	15430.2	15896.1	16296.9	18673.0	19546.9	18492.4	20864.9	22294.9
52.5°	18041.0	17654.7	16853.0	17224.9	17939.9	18608.0	21919.4	21807.4	19615.5	21951.9	23100.2
55°	19492.7	19218.3	18943.8	19330.2	20399.1	21233.3	24851.6	23501.0	20431.6	22825.7	23454.1
57.5°	21948.3	21883.3	21601.6	21995.2	23291.6	24158.2	27476.8	24815.5	20955.2	23280.7	23038.8
60°	25581.0	25476.3	24952.7	25454.6	27144.6	28506.0	29896.3	25996.3	21074.4	23103.8	21843.5
62.5°	29950.4	29592.9	29145.2	29885.4	32203.8	32803.2	32174.9	26696.8	20630.2	21695.5	18961.9
65°	34031.0	33662.7	33673.5	35233.5	37757.6	38165.7	34832.6	26592.1	19330.2	18167.4	13985.8
67.5°	37154.6	37093.2	37533.7	40577.9	43878.4	43596.8	37208.7	25024.9	15477.2	11775.8	7431.6
70°	37313.5	37432.6	38696.5	43835.1	47186.2	46738.4	37006.5	20341.3	9648.9	5416.6	2928.6
71°	35392.4	36194.0	37941.8	43734.0	47381.2	46799.8	35302.1	17037.2	7077.8	3777.2	2112.5
72.5°	30159.9	30582.4	34359.6	41159.3	45839.3	44597.1	30979.6	11941.9	4531.9	2311.1	1213.3
75°	16611.0	17651.0	23009.9	32290.4	36663.5	35572.9	20189.6	5673.0	2260.5	1263.9	501.9
77.5°	7908.3	7706.1	11226.9	19203.8	24858.8	24801.0	10172.5	2520.5	1318.1	855.8	252.8
80°	2260.5	2542.2	4297.2	9128.9	13801.6	13953.3	3907.2	1216.9	913.6	668.1	130.0
82.5°	682.5	696.9	1578.0	4037.2	6864.7	6471.1	1466.1	621.1	657.2	530.8	75.8
85°	119.2	148.1	465.8	1422.8	2618.0	1986.1	368.3	296.1	433.3	350.3	43.3
87.5°	7.2	10.8	155.3	162.5	231.1	133.6	65.0	43.3	93.9	93.9	25.3
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°	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2	7565.2
2.5°	7590.5	7612.2	7597.7	7565.2	7511.1	7446.1	7359.4	7287.2	7225.8	7193.3	7233.0
5°	7637.5	7666.4	7594.1	7431.6	7186.1	6918.9	6615.5	6380.8	6196.6	6138.9	6117.2
7.5°	7709.7	7727.7	7532.7	7171.6	6651.6	6019.7	5467.2	5001.4	4640.3	4531.9	4373.0
10°	7803.6	7792.7	7424.4	6752.8	5839.1	4889.4	4033.6	3398.0	2917.8	2744.4	2730.0
12.5°	7948.0	7890.2	7287.2	6182.2	4871.4	3629.2	2571.1	2011.4	1708.0	1606.9	1585.3
15°	8128.6	7991.4	7070.5	5514.1	3730.3	2343.6	1585.3	1415.6	1375.8	1368.6	1361.4
17.5°	8341.6	8125.0	6785.3	4694.4	2621.7	1520.3	1325.3	1321.7	1325.3	1318.1	1314.4
20°	8630.5	8265.8	6445.8	3723.0	1733.3	1281.9	1263.9	1263.9	1267.5	1263.9	1263.9
22.5°	8937.5	8431.9	6026.9	2841.9	1307.2	1216.9	1213.3	1220.6	1227.8	1224.2	1224.2
25°	9316.6	8648.6	5474.4	1946.4	1170.0	1162.8	1166.4	1180.8	1195.3	1198.9	1195.3
27.5°	9865.5	8915.8	4882.2	1339.7	1072.5	1079.7	1115.8	1151.9	1173.6	1177.2	1177.2
30°	10483.0	9211.9	4109.4	1086.9	993.1	993.1	1036.4	1105.0	1151.9	1159.2	1162.8
32.5°	11277.5	9555.0	3253.6	978.6	917.2	910.0	949.7	1032.8	1119.4	1144.7	1144.7
35°	12259.7	9959.4	2419.4	910.0	863.1	845.0	866.7	935.3	1047.2	1119.4	1126.7
37.5°	13411.6	10342.2	1769.4	848.6	812.5	787.2	801.7	855.8	946.1	1054.4	1083.3
40°	14476.9	10681.6	1321.7	798.1	761.9	743.9	754.7	780.0	855.8	956.9	975.0
42.5°	15639.7	10945.2	1050.8	743.9	711.4	704.2	704.2	715.0	765.6	823.3	826.9
45°	16798.8	11039.1	881.1	678.9	657.2	664.4	660.8	653.6	675.3	668.1	668.1
47.5°	17625.8	10927.2	729.4	617.5	617.5	628.3	610.3	585.0	574.2	530.8	534.4
50°	18192.7	10519.1	599.4	545.3	574.2	588.6	552.5	512.8	473.1	426.1	415.3
52.5°	18427.4	9793.3	491.1	451.4	509.2	527.2	483.9	436.9	375.6	335.8	325.0
55°	18275.8	8897.7	408.1	368.3	429.7	451.4	408.1	353.9	285.3	241.9	234.7
57.5°	17607.7	7828.9	346.7	292.5	343.1	357.5	328.6	270.8	202.2	158.9	158.9
60°	16452.2	6723.9	281.7	231.1	256.4	278.1	249.2	195.0	137.2	97.5	90.3
62.5°	14108.6	5460.0	227.5	180.6	180.6	198.6	173.3	140.8	86.7	50.6	46.9
65°	10186.9	3744.7	180.6	133.6	130.0	130.0	108.3	93.9	50.6	21.7	14.4
67.5°	5535.8	2112.5	144.4	101.1	90.3	86.7	68.6	54.2	21.7	3.6	0.0
70°	2177.5	812.5	111.9	68.6	57.8	54.2	36.1	25.3	14.4	0.0	0.0
71°	1476.9	559.7	97.5	57.8	46.9	39.7	28.9	21.7	10.8	0.0	0.0
72.5°	845.0	346.7	75.8	43.3	36.1	28.9	21.7	14.4	10.8	0.0	0.0
75°	368.3	176.9	46.9	32.5	25.3	18.1	14.4	10.8	3.6	0.0	0.0
77.5°	187.8	97.5	32.5	25.3	14.4	10.8	7.2	3.6	0.0	0.0	0.0
80°	104.7	50.6	21.7	14.4	10.8	7.2	3.6	3.6	0.0	0.0	0.0
82.5°	57.8	28.9	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.1	18.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	7.2	0.0	0.0	0.0	0.0	3.6	3.6	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)