

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: P382678

Luminaire Tested: **GLEON-SA0C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 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: 46313.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

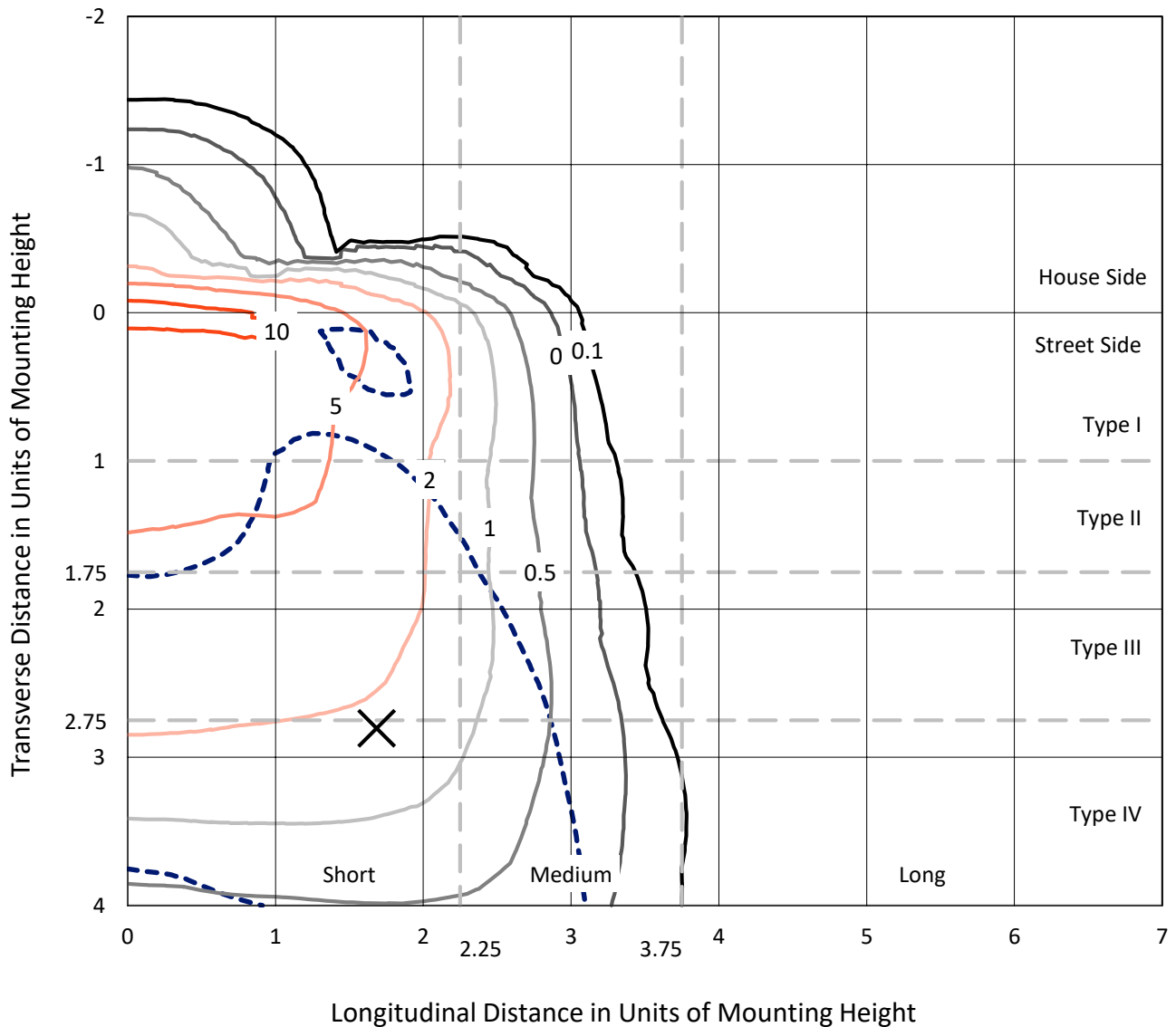
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

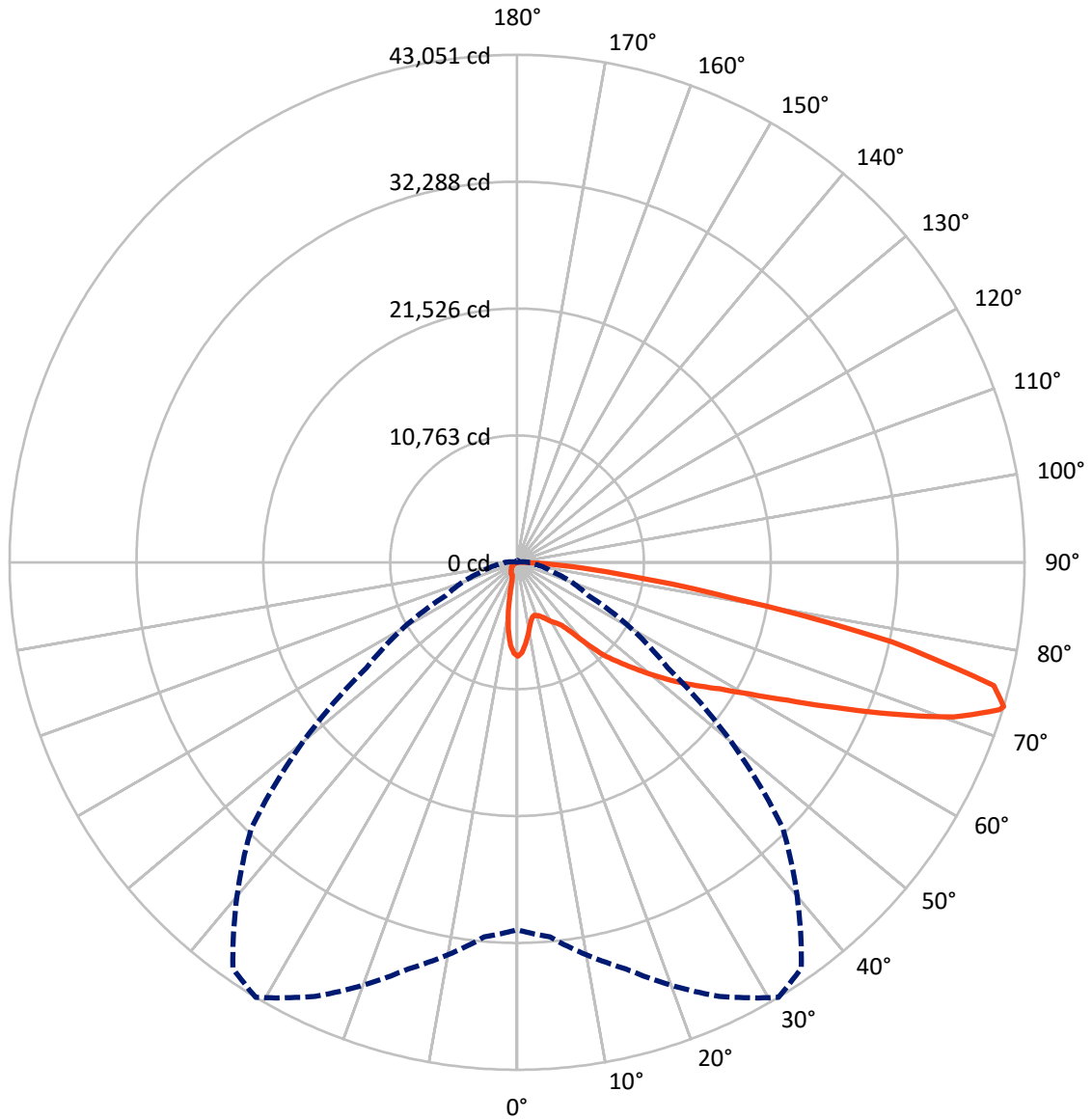
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4221.6	0.0	4221.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	42092.1	0.0	42092.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	46313.7	0.0	46313.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.7	1.4
10°-20°	1434.5	3.1
20°-30°	2149.4	4.6
30°-40°	3419.6	7.4
40°-50°	6106.5	13.2
50°-60°	9475.6	20.5
60°-70°	12596.5	27.2
70°-80°	9475.1	20.5
80°-90°	995.6	2.1
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°	46313.7	100.0
0°-180°	46313.7	100.0

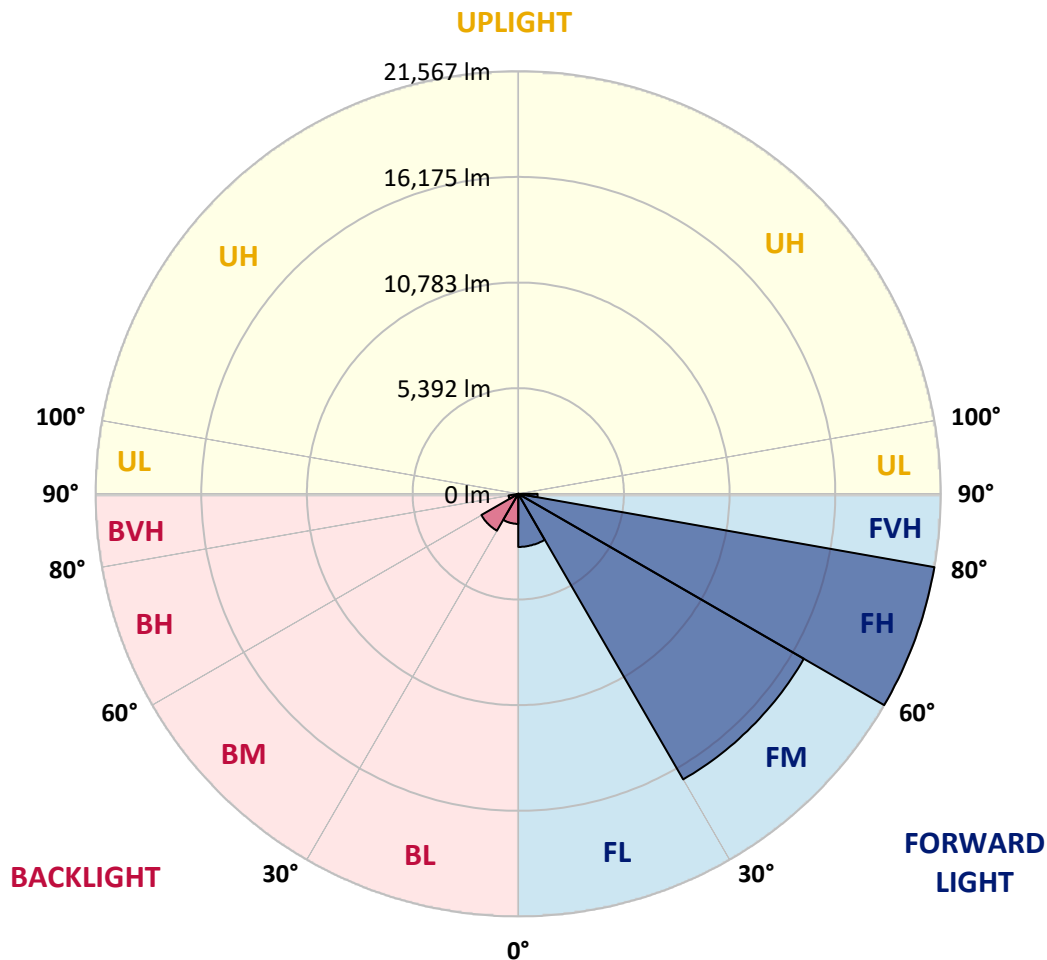


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.4	5.9			
FM (30°-60°)	16828.8	36.3			
FH (60°-80°)	21566.6	46.6			G5
FVH (80°-90°)	987.3	2.1			G5
BL (0°-30°)	1535.2	3.3	B3/2500		
BM (30°-60°)	2173.0	4.7	B2/2500		
BH (60°-80°)	505.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	8.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4
2.5°	7551.4	7583.1	7617.1	7623.9	7680.5	7682.8	7764.4	7825.6	7886.8	7945.7	7966.1
5°	6776.3	6828.4	6889.6	6950.8	7070.9	7118.5	7318.0	7521.9	7716.8	7902.7	7993.3
7.5°	5949.0	6008.0	6094.1	6245.9	6379.7	6472.6	6787.6	7150.3	7512.8	7855.1	8052.2
10°	5194.4	5248.8	5339.4	5500.3	5706.6	5833.5	6257.3	6760.4	7293.0	7812.0	8140.6
12.5°	4713.9	4743.4	4793.3	4965.5	5151.4	5294.1	5792.7	6415.9	7111.7	7809.7	8283.4
15°	4625.6	4634.6	4593.8	4670.9	4815.9	4954.2	5459.5	6137.2	6973.5	7846.0	8469.3
17.5°	4766.1	4761.5	4625.6	4616.5	4732.1	4845.4	5296.4	5944.6	6876.0	7929.9	8709.5
20°	4979.1	4963.2	4727.5	4684.5	4806.9	4913.4	5285.0	5872.0	6839.8	8070.4	9001.8
22.5°	5262.4	5235.2	4865.8	4820.5	4951.9	5063.0	5425.6	5942.2	6871.5	8258.4	9341.7
25°	5613.7	5572.9	5103.8	5053.9	5187.6	5298.6	5677.1	6144.0	6966.7	8487.3	9772.4
27.5°	6010.3	5951.4	5484.5	5355.3	5507.1	5622.7	6012.6	6452.2	7116.3	8729.9	10300.4
30°	6384.2	6307.1	5885.6	5672.6	5858.4	5987.6	6375.1	6819.4	7356.4	9103.8	11023.4
32.5°	6760.4	6674.4	6243.7	5989.9	6157.6	6298.1	6749.1	7324.8	7807.5	9675.0	11984.3
35°	7626.2	7535.5	7007.5	6588.2	6585.9	6665.2	7272.6	8016.0	8403.5	10470.4	13131.1
37.5°	9083.4	9031.3	8528.1	7732.7	7519.6	7431.2	7986.5	8840.9	9260.1	11565.0	14425.1
40°	10678.9	10633.5	10069.3	9348.5	9024.5	8806.9	9010.9	9989.9	10470.4	12902.1	15746.4
42.5°	12480.6	12265.3	11259.1	11043.8	10753.7	10588.2	10404.6	11406.3	11957.1	14357.1	17056.4
45°	14116.9	13754.3	12448.9	12122.5	12056.8	12097.6	12199.5	13310.0	13629.7	16086.3	18361.7
47.5°	15091.4	14805.8	13804.1	13491.4	13473.3	13742.9	14513.5	15460.8	15295.4	17593.4	19510.7
50°	16018.3	15760.0	14928.2	15005.3	15089.1	15456.3	17140.2	17672.8	16816.1	18960.0	20564.6
52.5°	16768.5	16374.2	15939.1	16371.9	16784.3	17375.9	19850.7	19658.1	17894.8	20047.8	21466.6
55°	17201.4	17022.4	17233.1	17668.2	18443.3	19404.2	22409.4	21310.2	18683.5	21040.5	22067.2
57.5°	18787.8	18436.5	18855.7	19232.0	20242.7	21586.7	24600.9	22540.8	19252.4	21654.7	22205.4
60°	20707.4	20424.1	20671.1	21296.6	22660.9	24240.5	26649.6	23544.8	19549.3	22049.0	21847.3
62.5°	23762.4	23388.4	23234.3	23934.6	25743.1	27467.8	28204.4	24240.5	19483.5	21874.5	20619.0
65°	27855.3	27467.8	26778.8	27413.4	29713.7	30930.7	29942.6	24387.8	19030.3	20462.6	17514.1
67.5°	32048.0	31767.0	31177.8	32247.5	34323.4	34715.4	31780.6	24029.7	17570.8	16591.7	12374.1
70°	34817.4	34697.4	35080.3	37446.4	39298.0	39184.6	33466.7	22105.6	13695.3	10203.0	6121.3
72.5°	32820.8	33396.4	36224.8	40515.0	42776.8	41852.1	32601.0	16974.8	7827.9	3925.3	1770.0
73°	31166.4	31903.0	35710.4	40630.6	43051.0	42037.9	31873.5	15581.0	6672.0	3098.0	1341.6
75°	21681.9	22586.1	29564.2	37840.7	41768.3	40052.6	26568.0	9536.6	3091.2	1373.4	541.7
77.5°	10527.0	11195.6	16279.0	27340.8	32483.2	31293.3	16539.6	3553.6	1396.0	859.0	249.3
80°	3929.8	4369.4	7066.3	13915.2	18771.9	19263.8	7274.9	1343.9	929.2	691.2	126.9
82.5°	1028.9	1146.7	2606.3	6205.2	9620.6	10069.3	2293.5	677.6	679.9	568.8	77.0
85°	328.6	376.3	813.6	2785.3	4532.6	3979.7	598.3	328.6	494.1	423.8	43.0
87.5°	40.8	52.2	258.3	655.0	999.5	555.2	92.9	97.4	210.8	235.7	25.0
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°	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4	7968.4
2.5°	7986.5	7975.2	7977.4	7918.5	7880.0	7802.9	7723.6	7687.3	7648.8	7632.9	7648.8
5°	8027.3	8006.9	7948.0	7766.7	7574.0	7324.8	7091.3	6914.5	6692.4	6631.2	6694.7
7.5°	8090.8	8050.0	7877.7	7508.3	7079.9	6604.0	6069.2	5679.4	5359.8	5153.6	5228.4
10°	8183.6	8106.6	7759.9	7132.1	6366.1	5523.1	4763.8	4172.3	3753.0	3580.8	3574.0
12.5°	8340.1	8195.0	7614.8	6642.6	5493.5	4369.4	3374.5	2733.2	2393.2	2173.4	2168.8
15°	8512.3	8299.3	7431.2	6055.6	4478.2	3129.8	2173.4	1686.1	1466.3	1396.0	1387.0
17.5°	8723.1	8419.3	7193.3	5332.6	3415.3	2073.7	1418.7	1278.2	1269.1	1262.3	1262.3
20°	8988.2	8562.1	6887.3	4505.4	2422.7	1384.7	1205.7	1214.7	1219.3	1210.2	1212.5
22.5°	9296.5	8707.2	6522.5	3617.0	1638.6	1158.1	1153.5	1164.9	1169.5	1164.9	1167.1
25°	9654.6	8874.9	6078.3	2685.6	1183.0	1099.1	1110.5	1126.3	1137.7	1137.7	1137.7
27.5°	10098.7	9078.9	5543.5	1874.3	1022.1	1037.9	1069.7	1099.1	1115.1	1119.5	1119.5
30°	10676.7	9332.7	4902.1	1285.0	929.2	956.4	1015.3	1071.9	1101.5	1105.9	1108.3
32.5°	11406.3	9618.2	4158.7	949.6	849.9	870.3	933.7	1028.9	1085.5	1094.7	1094.7
35°	12242.7	9949.1	3358.7	827.2	793.2	800.0	849.9	958.7	1058.3	1083.3	1085.5
37.5°	13158.2	10275.5	2554.1	772.8	745.6	745.6	781.8	874.8	992.7	1069.7	1078.7
40°	14012.6	10472.6	1790.4	729.8	702.6	702.6	734.2	802.2	913.3	1028.9	1053.9
42.5°	14801.4	10540.6	1246.5	689.0	661.8	668.6	695.8	750.2	834.0	949.6	972.3
45°	15612.6	10529.3	908.8	641.4	621.0	641.4	661.8	702.6	763.8	829.4	834.0
47.5°	16224.6	10434.2	720.6	596.0	582.4	609.6	627.8	655.0	689.0	684.4	684.4
50°	16797.9	10203.0	580.2	534.9	543.9	575.6	584.7	593.8	596.0	553.0	548.5
52.5°	17233.1	9842.6	464.6	469.1	505.4	537.1	528.1	514.5	491.8	439.7	430.6
55°	17378.1	9149.1	364.9	387.5	448.7	489.5	455.5	426.1	383.1	339.9	330.9
57.5°	17115.2	8254.0	296.9	301.4	378.5	412.5	373.9	339.9	292.3	256.1	249.3
60°	16557.7	7259.0	244.7	226.6	292.3	321.8	296.9	262.9	219.8	192.6	190.4
62.5°	15451.8	6198.4	201.7	176.8	222.1	247.0	231.2	206.2	170.0	151.8	149.6
65°	13126.5	4958.7	163.2	142.8	172.2	192.6	179.0	160.9	133.7	120.1	117.8
67.5°	9162.7	3351.9	133.7	117.8	136.0	151.8	140.5	131.4	106.5	104.2	106.5
70°	4419.4	1615.9	111.0	95.2	106.5	117.8	113.3	106.5	102.0	117.8	136.0
72.5°	1266.9	541.7	88.4	79.3	86.1	92.9	97.4	95.2	111.0	142.8	165.4
73°	974.5	437.4	83.8	74.8	81.6	90.6	95.2	92.9	113.3	145.0	165.4
75°	417.0	210.8	63.4	61.2	68.0	79.3	83.8	83.8	113.3	147.3	158.6
77.5°	188.1	113.3	40.8	47.6	59.0	63.4	70.2	70.2	90.6	113.3	113.3
80°	106.5	61.2	31.8	36.2	43.0	43.0	43.0	38.6	40.8	45.4	49.8
82.5°	68.0	40.8	25.0	29.4	27.2	22.6	18.2	18.2	15.8	18.2	22.6
85°	38.6	22.6	22.6	18.2	11.4	9.0	11.4	9.0	2.2	0.0	2.2
87.5°	22.6	13.6	6.8	0.0	0.0	0.0	0.0	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)