

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: P458387

Luminaire Tested: **GALN-SA9D-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458387
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-SA9D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 56148 lumens
Efficiency: N/A
Efficacy: 101.7 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

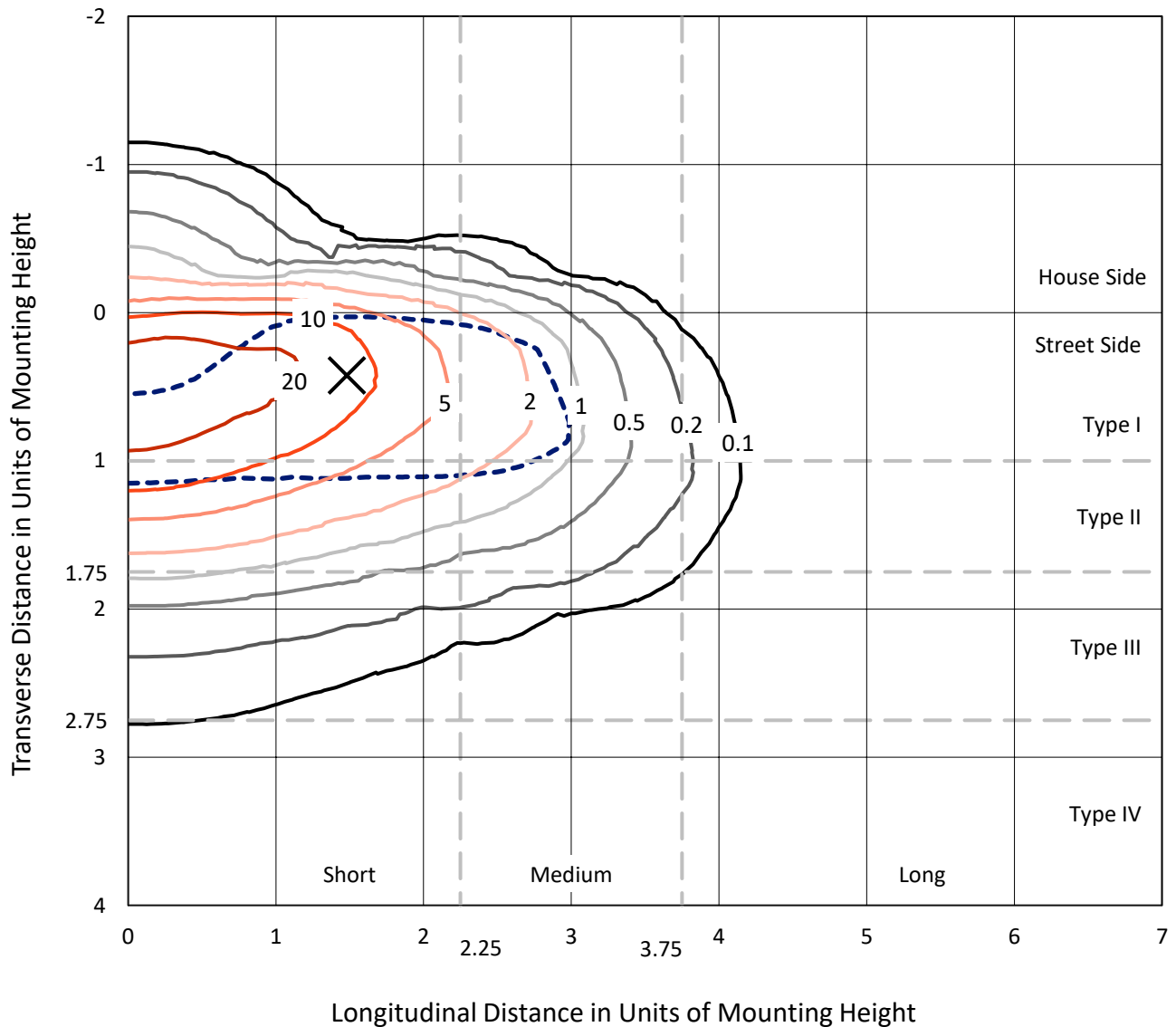
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

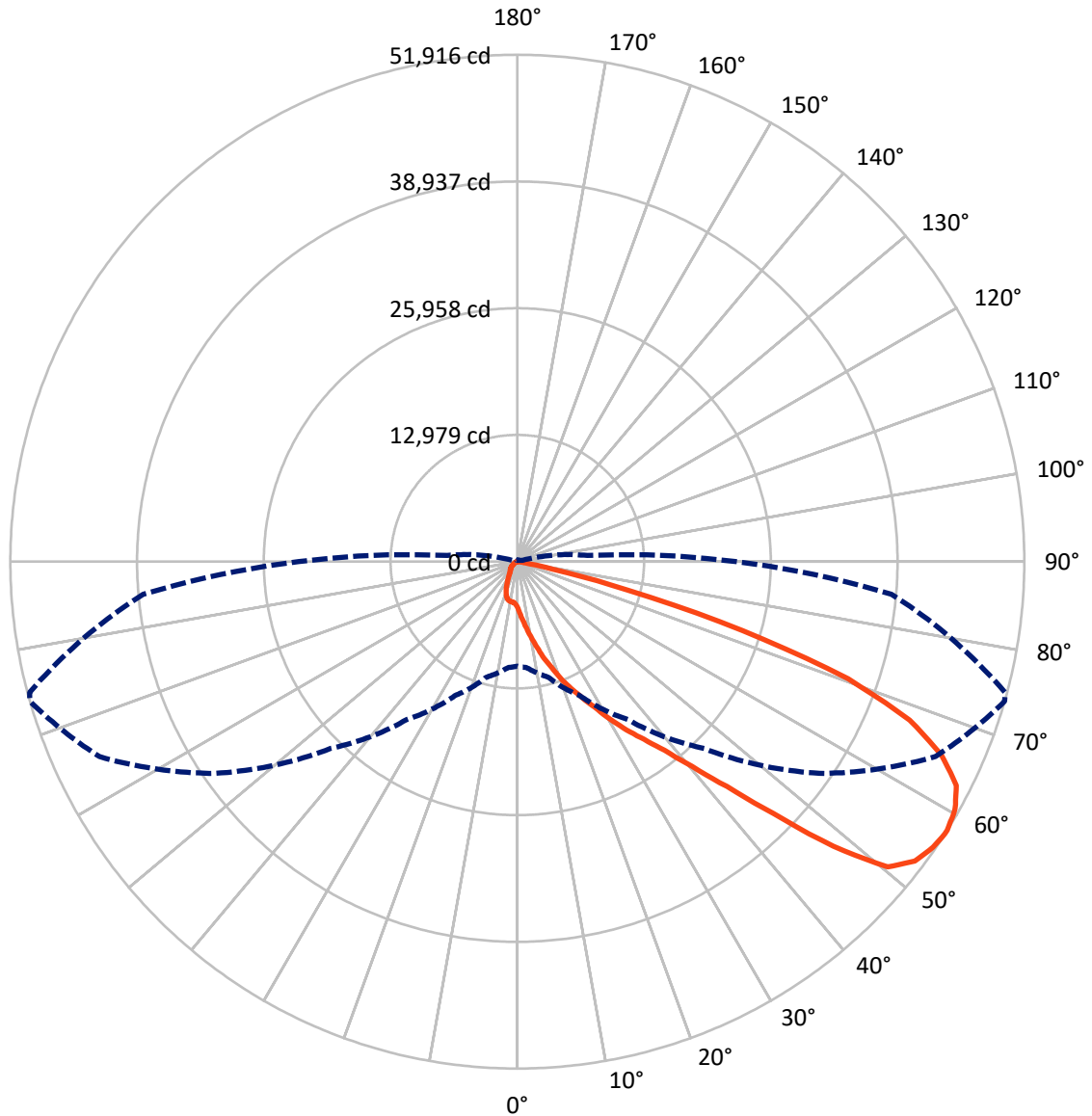
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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	3238.4	0.0	3238.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	52909.6	0.0	52909.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	56148.0	0.0	56148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	1.0
10°-20°	2237.2	4.0
20°-30°	4787.0	8.5
30°-40°	8798.5	15.7
40°-50°	13488.2	24.0
50°-60°	14268.7	25.4
60°-70°	9317.8	16.6
70°-80°	2546.0	4.5
80°-90°	137.1	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°	56148.0	100.0
0°-180°	56148.0	100.0

Coefficient of Utilization



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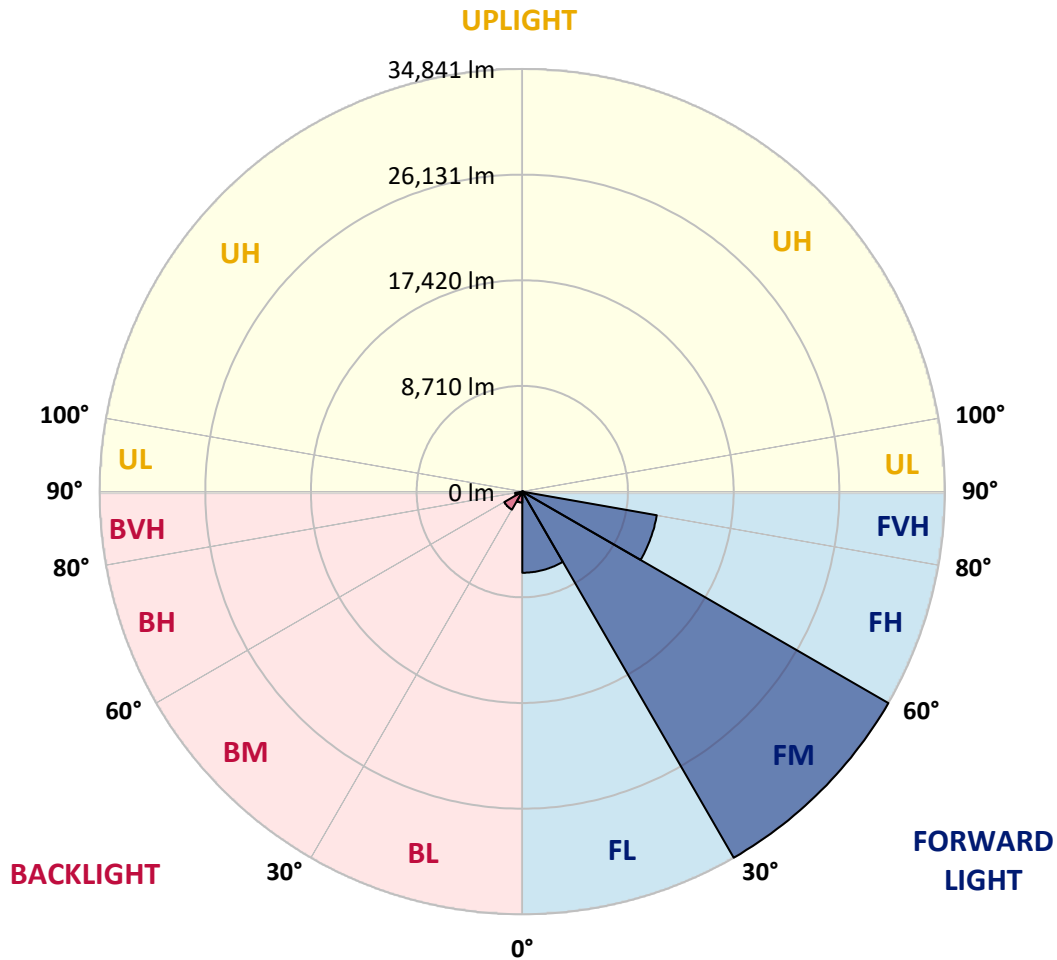
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6687.1	11.9			
FM (30°-60°)	34840.9	62.1			
FH (60°-80°)	11255.8	20.0			G4/12000
FVH (80°-90°)	125.7	0.2			G2/225
BL (0°-30°)	904.6	1.6	B2/1000		
BM (30°-60°)	1714.5	3.1	B2/2500		
BH (60°-80°)	608.0	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.0			G1/100
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°	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3
2.5°	6881.0	6818.9	6694.9	6652.3	6470.1	6187.1	5939.0	5605.6	5342.0	5314.8	4996.9
5°	9214.7	9075.1	9017.0	8737.9	8299.8	7888.9	7183.3	6648.4	6032.0	5985.5	5345.8
7.5°	11463.1	11269.3	11211.1	10947.5	10435.8	9788.4	8873.5	7900.5	6923.6	6834.5	5814.9
10°	13091.3	13118.4	13013.8	12839.3	12424.5	11765.5	10637.4	9307.7	7916.0	7803.6	6342.1
12.5°	14258.2	14254.3	14273.7	14269.8	14048.8	13548.7	12362.5	10831.2	9009.2	8788.3	6946.9
15°	15018.0	15029.6	15087.7	15289.3	15312.6	15002.5	14013.9	12288.8	10276.9	10001.6	7602.0
17.5°	15785.5	15866.9	15960.0	16149.9	16320.5	16196.5	15498.7	13808.5	11424.4	11218.9	8303.7
20°	17053.2	17165.6	17111.3	17227.6	17316.8	17328.4	16789.6	15211.8	12816.1	12471.0	9106.1
22.5°	19080.6	19076.8	18937.2	18727.9	18553.4	18545.7	18057.2	16653.9	14079.8	13746.4	9912.5
25°	21643.1	21654.7	21383.4	20786.4	20352.2	19821.1	19259.0	17917.7	15432.8	15021.8	10761.5
27.5°	24581.6	24507.9	24097.0	23275.1	22414.5	21507.4	20697.2	19386.9	16867.1	16526.0	11734.5
30°	27221.5	27194.4	26713.7	25709.6	24577.7	23666.7	22492.1	21228.3	18724.0	18305.3	12823.8
32.5°	29679.3	29718.1	29051.3	28012.3	26919.1	25868.6	24628.1	22988.3	20546.0	19952.9	14010.1
35°	31598.2	31637.0	30946.9	30082.5	28958.2	28086.0	26903.6	24864.5	22344.8	21844.7	15374.6
37.5°	32621.6	32672.0	32272.7	31621.5	30919.8	30481.7	29380.8	27279.7	24531.2	24228.8	16987.3
40°	32815.5	32873.6	32699.2	32524.7	32485.9	32800.0	32478.2	30125.1	27562.7	27089.7	19390.8
42.5°	32234.0	32311.5	32389.0	32776.7	33567.5	34718.9	35839.2	33986.2	31466.4	30830.6	22329.2
45°	30706.6	30698.8	31005.1	32009.1	33780.7	36238.5	39351.4	38820.3	36785.1	36029.2	26481.1
47.5°	28093.8	28055.0	28717.9	30148.4	32908.5	36517.6	42216.2	44689.5	43573.0	42875.3	30943.1
50°	24112.5	24302.4	25345.2	27341.7	30741.5	35672.5	43100.1	48539.0	49143.7	48403.3	34548.3
52.5°	19448.9	19441.2	21077.1	23786.8	27531.6	33811.7	42483.7	49236.8	50954.1	50388.1	36323.8
55°	14393.8	14494.6	16196.5	18929.5	23364.3	30415.8	40471.8	48519.6	51644.1	51244.8	37494.5
57°	10707.2	10885.5	12250.1	15142.0	19735.8	27054.8	37793.0	47236.4	51915.5	51698.4	38467.6
57.5°	9993.9	10001.6	11331.3	13959.7	18673.6	25763.9	37025.5	46701.5	51907.7	51787.6	38626.5
60°	6152.2	6346.0	7264.8	9435.7	13668.9	20108.0	31881.2	43627.3	51504.6	51679.0	39304.9
62.5°	3682.8	3764.2	4361.2	5687.0	8811.5	14676.8	26089.6	39692.6	50454.0	50985.1	39258.4
65°	2368.6	2388.0	2659.4	3442.4	5508.7	9920.2	20104.1	34494.0	47736.5	48713.4	37723.2
67.5°	1829.8	1860.8	1969.3	2260.1	3194.3	6179.3	14219.4	28946.6	43340.4	44600.3	34001.7
70°	1624.3	1639.8	1678.6	1771.6	2112.7	3488.9	8846.4	22612.2	35940.0	36296.7	26609.0
72.5°	1325.8	1368.4	1488.6	1519.6	1674.7	2178.7	4923.3	15176.9	24147.4	24236.5	14886.2
75°	1027.3	1035.1	1213.4	1302.5	1411.1	1500.2	2198.0	7652.4	11598.8	10978.5	5737.4
77.5°	767.6	802.5	883.9	996.3	1151.4	1073.8	984.7	2884.2	3601.4	3535.5	1666.9
80°	492.3	511.7	616.4	748.2	895.5	701.7	554.4	845.1	790.8	814.1	399.3
82.5°	248.1	252.0	395.4	608.6	569.9	352.8	348.9	345.0	294.6	290.7	186.1
85°	27.1	58.1	255.9	348.9	255.9	116.3	162.8	158.9	155.1	158.9	108.5
87.5°	3.9	3.9	42.6	50.4	34.9	38.8	46.5	50.4	62.0	58.1	46.5
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°	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3
2.5°	4841.9	4686.8	4399.9	4124.7	3919.2	3787.4	3616.9	3554.8	3465.7	3454.1	3411.4
5°	5051.2	4756.6	4256.5	3861.1	3543.2	3302.9	3093.5	2919.1	2779.5	2748.5	2764.0
7.5°	5349.7	4911.7	4213.9	3675.0	3233.1	2822.2	2488.8	2283.3	2136.0	2081.7	2089.5
10°	5687.0	5117.1	4206.1	3477.3	2802.8	2298.8	1934.4	1752.2	1666.9	1635.9	1601.0
12.5°	6086.3	5353.6	4186.7	3171.1	2329.8	1833.6	1573.9	1465.4	1383.9	1360.7	1360.7
15°	6536.0	5605.6	4093.7	2791.2	1891.8	1515.8	1341.3	1256.0	1228.9	1205.6	1205.6
17.5°	7005.0	5853.7	3899.9	2322.1	1570.0	1298.7	1190.1	1139.7	1101.0	1073.8	1073.8
20°	7540.0	6097.9	3589.7	1907.3	1325.8	1159.1	1073.8	1015.7	984.7	961.4	953.6
22.5°	8047.8	6295.6	3194.3	1566.1	1155.2	1042.8	965.3	903.2	872.2	860.6	860.6
25°	8575.1	6415.8	2717.5	1294.8	1054.4	945.9	860.6	810.2	783.1	775.3	771.4
27.5°	9086.8	6485.6	2298.8	1132.0	961.4	856.7	775.3	736.6	709.4	701.7	705.5
30°	9707.0	6497.2	1891.8	1015.7	880.0	771.4	697.8	662.9	647.4	639.6	635.8
32.5°	10335.0	6481.7	1589.4	945.9	802.5	697.8	635.8	608.6	597.0	585.4	585.4
35°	11040.6	6400.3	1352.9	876.1	728.8	635.8	581.5	558.2	542.7	531.1	527.2
37.5°	11916.7	6357.6	1217.3	798.6	662.9	577.6	527.2	504.0	492.3	476.8	472.9
40°	13296.8	6547.6	1174.6	728.8	597.0	523.3	476.8	449.7	434.2	418.7	414.8
42.5°	15018.0	6881.0	1104.8	659.0	538.8	472.9	426.4	395.4	368.3	348.9	341.1
45°	17247.0	7319.0	996.3	585.4	488.5	418.7	376.0	337.3	302.4	286.9	283.0
47.5°	19584.6	7741.6	899.4	527.2	434.2	372.2	325.6	283.0	252.0	240.3	236.5
50°	21019.0	7826.9	837.3	461.3	379.9	321.8	275.2	236.5	217.1	205.5	205.5
52.5°	21674.1	7691.2	752.1	403.2	329.5	283.0	236.5	205.5	193.8	186.1	182.2
55°	22131.5	7481.8	639.6	348.9	283.0	240.3	209.3	186.1	170.6	162.8	158.9
57°	22399.0	7198.9	554.4	306.3	244.2	209.3	186.1	166.7	151.2	135.7	135.7
57.5°	22410.7	7090.3	531.1	302.4	232.6	201.6	182.2	162.8	143.4	127.9	124.1
60°	22065.6	6346.0	426.4	255.9	186.1	170.6	151.2	127.9	100.8	85.3	81.4
62.5°	20956.9	5400.1	352.8	217.1	151.2	131.8	108.5	96.9	69.8	50.4	50.4
65°	19278.4	4380.6	302.4	174.4	124.1	96.9	73.7	69.8	42.6	23.3	19.4
67.5°	16851.6	3411.4	255.9	143.4	104.7	69.8	50.4	46.5	23.3	7.8	0.0
70°	12839.3	2326.0	213.2	116.3	77.5	50.4	34.9	27.1	15.5	3.9	0.0
72.5°	7400.4	1279.3	178.3	89.2	58.1	38.8	27.1	15.5	15.5	0.0	0.0
75°	2643.8	550.5	135.7	65.9	46.5	31.0	19.4	7.8	11.6	3.9	0.0
77.5°	841.2	294.6	89.2	50.4	38.8	23.3	15.5	7.8	7.8	3.9	0.0
80°	248.1	155.1	54.3	42.6	27.1	19.4	11.6	3.9	7.8	3.9	0.0
82.5°	135.7	77.5	42.6	31.0	27.1	15.5	11.6	3.9	3.9	3.9	0.0
85°	69.8	46.5	34.9	31.0	27.1	15.5	11.6	3.9	0.0	3.9	3.9
87.5°	38.8	34.9	34.9	31.0	27.1	19.4	11.6	3.9	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)