

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: P458449

Luminaire Tested: **GALN-SA9D-760-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54908 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

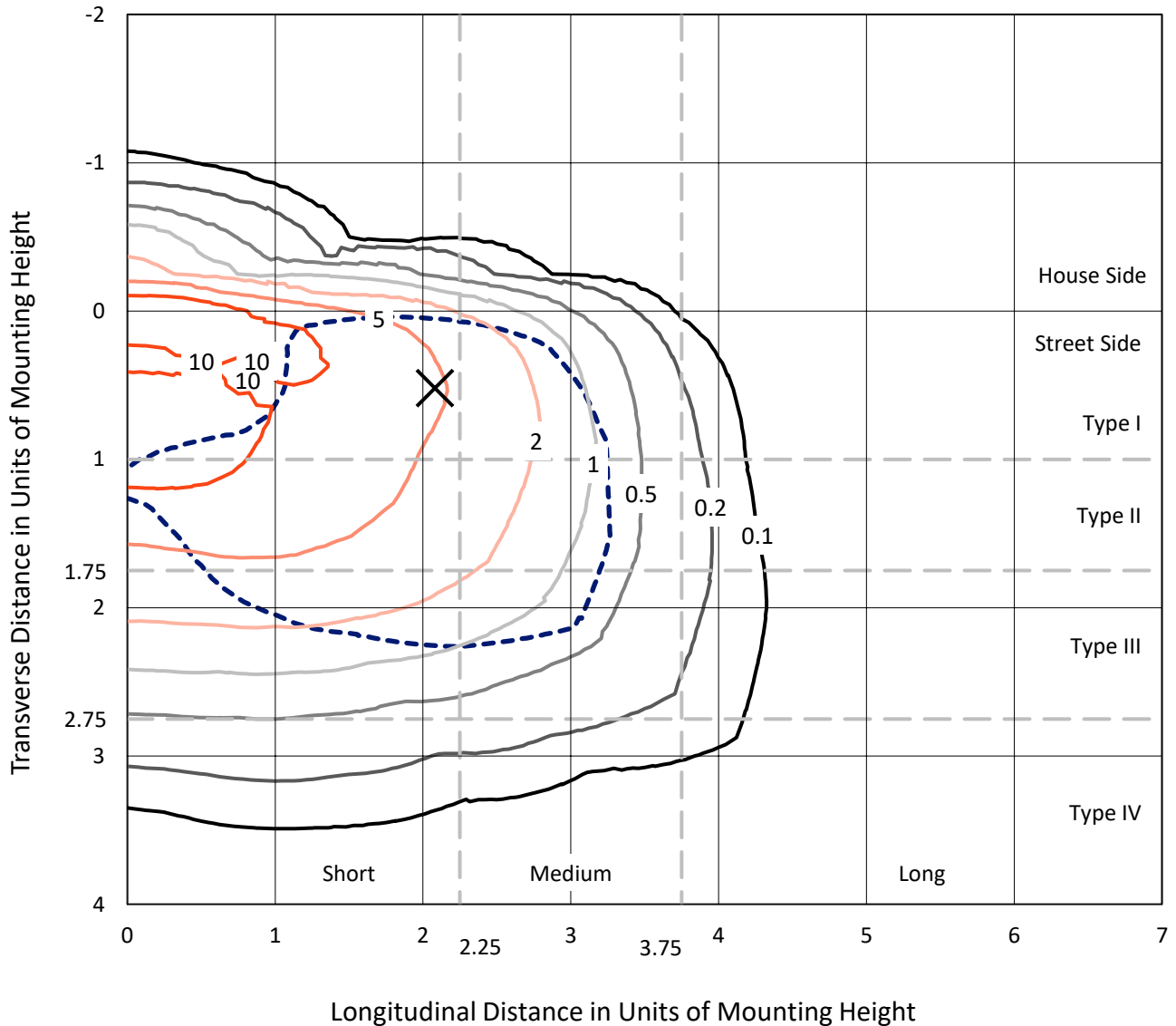
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

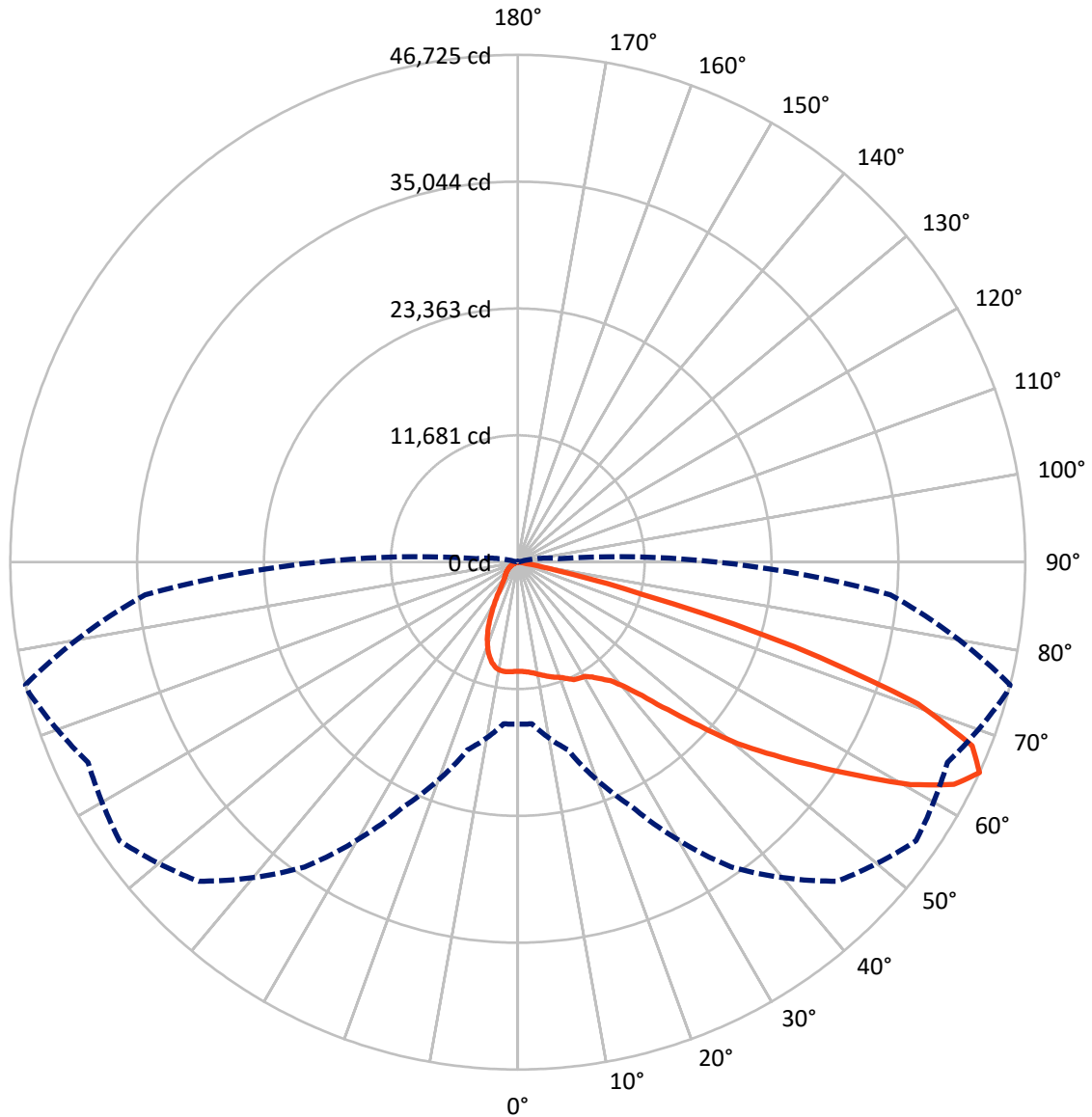
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3965.4	0.0	3965.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	50942.5	0.0	50942.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	54908.0	0.0	54908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.4	1.5
10°-20°	1842.3	3.4
20°-30°	2968.7	5.4
30°-40°	5161.9	9.4
40°-50°	8529.7	15.5
50°-60°	13176.7	24.0
60°-70°	16090.6	29.3
70°-80°	6106.8	11.1
80°-90°	203.8	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°	54908.0	100.0
0°-180°	54908.0	100.0

Coefficient of Utilization



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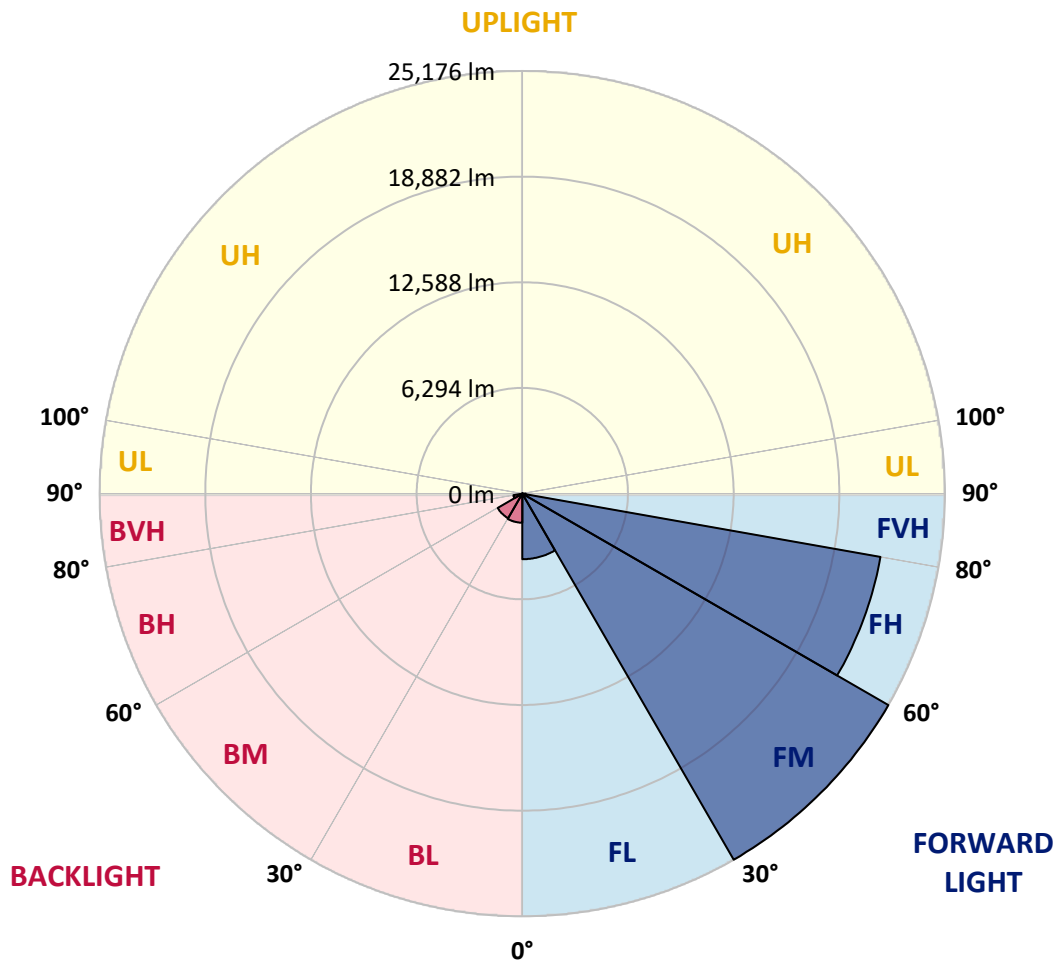
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3906.1	7.1			
FM	(30°-60°)	25176.2	45.9			
FH	(60°-80°)	21659.3	39.4			G5
FVH	(80°-90°)	201.0	0.4			G2/225
BL	(0°-30°)	1732.4	3.2	B3/2500		
BM	(30°-60°)	1692.2	3.1	B2/2500		
BH	(60°-80°)	538.1	1.0	B2/1000		G2/1000
BVH	(80°-90°)	2.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4
2.5°	9598.6	9602.5	9625.7	9683.9	9773.1	9846.7	9908.7	10009.5	10079.3	10087.1	10110.3
5°	8935.7	8889.2	8935.7	9086.9	9222.6	9428.0	9680.0	9932.0	10156.8	10172.4	10280.9
7.5°	8191.4	8230.1	8303.8	8458.9	8714.7	9028.7	9393.1	9842.8	10269.3	10308.0	10521.3
10°	7435.4	7520.7	7640.9	7877.4	8234.0	8641.1	9137.3	9780.8	10447.6	10501.9	10870.2
12.5°	6737.6	6776.4	6923.7	7241.6	7683.5	8257.3	8943.5	9745.9	10645.3	10711.2	11242.3
15°	6202.7	6253.1	6381.0	6667.9	7160.2	7896.8	8784.5	9734.3	10839.1	10932.2	11614.5
17.5°	6101.9	6132.9	6187.1	6381.0	6811.3	7609.9	8641.1	9730.4	11025.2	11137.6	11959.5
20°	6516.7	6489.5	6435.3	6415.9	6652.3	7388.9	8536.4	9761.4	11203.5	11331.5	12323.9
22.5°	7555.6	7590.5	7272.6	6896.6	6819.0	7354.0	8520.9	9908.7	11486.5	11637.7	12731.0
25°	9761.4	9493.9	8997.7	8098.3	7419.9	7567.2	8695.3	10257.6	11816.1	11982.8	13099.2
27.5°	12199.8	12118.4	11347.0	9866.1	8602.3	8016.9	9005.5	10525.1	11924.6	12095.2	13308.6
30°	14595.6	14692.5	13808.7	12172.7	10319.7	8850.4	9296.2	10625.9	12021.5	12199.8	13576.1
32.5°	16817.0	16933.3	16157.9	14537.5	12343.3	10292.5	9796.3	11017.5	12428.6	12610.8	14021.9
35°	18565.3	18580.8	17995.5	16704.5	14553.0	12044.8	10877.9	11703.6	12979.1	13192.3	14494.8
37.5°	20170.3	20147.0	19460.8	18348.2	16394.4	13785.4	12238.6	12494.5	13607.1	13828.0	15177.1
40°	21360.4	21375.9	21154.9	20108.2	18111.8	15394.2	13316.3	13234.9	14661.5	15006.6	16169.5
42.5°	22155.1	22298.5	22407.1	21876.0	20271.1	17375.2	14971.7	14820.5	16491.3	16778.2	17572.9
45°	22798.6	23054.5	23597.2	23570.1	22345.1	19805.9	17243.4	16933.3	19084.8	19391.1	19360.0
47.5°	23267.7	23527.4	24426.8	24969.6	24295.0	22162.9	20100.5	19833.0	22182.2	22515.6	21333.3
50°	23508.1	23818.2	24965.7	26016.3	25818.6	24434.6	23356.9	23372.4	25923.2	26245.0	23620.5
52.5°	22945.9	23349.1	25252.6	27144.4	27528.2	26609.4	26407.8	26919.5	29253.3	29528.5	25686.7
55°	21151.1	21658.9	24861.0	28105.8	29509.1	29175.7	29873.5	30652.7	32893.5	33071.8	27807.3
57.5°	20015.2	20554.1	23705.8	28923.8	31889.4	32401.1	33506.0	34075.8	36649.9	37103.5	30241.8
60°	19057.7	19480.2	22756.0	29098.2	34308.4	36347.6	37421.4	38010.6	41286.4	41581.1	32920.6
62.5°	17464.4	17948.9	21151.1	27880.9	35525.7	39507.0	41732.2	41468.6	44872.3	45077.8	34564.3
65°	14901.9	14944.5	17894.7	24822.3	34269.7	41557.8	44759.9	43655.1	46585.8	46725.4	34436.4
67.5°	11122.1	11533.1	13766.0	19511.2	28947.0	39805.5	45740.7	43713.2	45504.2	45116.6	31703.3
70°	7164.1	7478.1	9331.1	13529.5	20871.9	33219.1	42488.2	40716.6	39937.3	39076.7	25950.4
72.5°	3306.8	3710.0	5543.6	7730.1	12378.2	23663.1	34490.6	33079.5	28745.4	26621.0	16495.2
75°	1442.1	1542.9	2736.9	4078.2	5803.4	12513.9	22740.5	20534.7	12982.9	11858.7	6602.0
77.5°	880.0	945.9	1434.4	2186.4	2279.5	4768.3	12250.2	8959.0	4012.3	3539.4	1791.0
80°	597.0	670.7	1042.8	1143.6	779.2	1329.7	4597.7	2391.9	810.2	775.3	383.8
82.5°	290.7	368.3	771.5	639.6	337.3	426.4	1337.4	511.7	236.5	221.0	135.7
85°	42.6	73.7	434.2	418.7	151.2	100.8	236.5	127.9	81.4	77.5	62.0
87.5°	0.0	0.0	147.3	65.9	15.5	15.5	27.1	27.1	31.0	27.1	31.0
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°	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4	10044.4
2.5°	10122.0	10141.3	10067.7	9963.0	9850.6	9738.2	9579.2	9435.8	9350.5	9400.9	9276.8
5°	10304.2	10288.7	10094.8	9776.9	9354.4	8846.5	8342.6	7912.3	7772.7	7563.4	7540.1
7.5°	10556.1	10513.5	10102.6	9373.8	8420.1	7466.4	6536.0	5919.7	5566.9	5268.4	5276.1
10°	10908.9	10784.9	10013.4	8664.3	7094.3	5656.0	4469.8	3655.7	3302.9	3190.5	3101.3
12.5°	11273.3	11033.0	9765.3	7706.8	5524.2	3865.0	2717.5	2221.3	2004.2	1934.5	1926.7
15°	11599.0	11219.1	9331.1	6555.4	4016.2	2469.4	1853.0	1690.2	1663.1	1667.0	1663.1
17.5°	11920.7	11366.4	8730.2	5334.3	2729.2	1771.6	1593.3	1554.5	1566.2	1581.7	1577.8
20°	12188.2	11397.4	7962.7	4070.5	1930.6	1554.5	1496.4	1488.6	1500.3	1511.9	1511.9
22.5°	12479.0	11420.6	7051.6	2818.3	1577.8	1446.0	1415.0	1415.0	1430.5	1446.0	1449.9
25°	12696.1	11292.7	5962.3	2023.6	1391.7	1341.3	1325.8	1329.7	1345.2	1353.0	1349.1
27.5°	12731.0	10932.2	4807.1	1550.7	1263.8	1213.4	1197.9	1213.4	1194.0	1205.6	1197.9
30°	12762.0	10474.7	3636.3	1306.4	1147.5	1070.0	1046.7	1023.4	1007.9	988.5	984.7
32.5°	12858.9	9935.9	2655.5	1174.6	1038.9	953.7	899.4	833.5	783.1	767.6	763.7
35°	12901.5	9288.5	1950.0	1070.0	942.0	849.0	752.1	659.0	585.4	558.2	577.6
37.5°	13064.3	8660.5	1511.9	992.4	856.7	740.4	616.4	500.1	430.3	414.8	422.6
40°	13397.7	7978.2	1267.7	926.5	783.1	639.6	488.5	376.0	329.5	314.0	310.1
42.5°	13932.7	7299.8	1128.1	864.5	709.4	538.9	383.8	294.6	255.9	244.2	244.2
45°	14584.0	6648.5	1031.2	798.6	631.9	434.2	302.4	236.5	213.2	205.5	205.5
47.5°	15440.7	6078.6	949.8	732.7	546.6	345.0	244.2	205.5	190.0	193.8	197.7
50°	16309.1	5656.0	860.6	659.0	449.7	283.0	209.3	182.2	178.3	182.2	182.2
52.5°	16964.3	5407.9	740.4	558.2	352.8	236.5	186.1	170.6	166.7	158.9	158.9
55°	17848.1	5353.7	589.3	453.6	279.1	197.7	166.7	155.1	143.4	135.7	131.8
57.5°	18984.0	5415.7	453.6	352.8	217.1	162.8	147.3	127.9	112.4	96.9	96.9
60°	19689.6	5276.1	352.8	271.4	158.9	131.8	112.4	93.0	73.7	62.0	58.1
62.5°	19464.7	4686.9	279.1	201.6	112.4	96.9	73.7	62.0	42.6	31.0	27.1
65°	18305.6	3783.6	224.8	139.6	81.4	58.1	38.8	38.8	19.4	3.9	0.0
67.5°	16022.2	2802.8	178.3	93.0	46.5	27.1	19.4	11.6	0.0	0.0	0.0
70°	13041.1	2023.6	139.6	58.1	27.1	19.4	7.8	3.9	0.0	0.0	0.0
72.5°	8280.5	1159.1	108.5	34.9	19.4	7.8	0.0	0.0	0.0	0.0	0.0
75°	3202.1	453.6	73.7	23.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	907.1	213.2	42.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	236.5	93.0	23.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.4	38.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	65.9	15.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.0	3.9	0.0	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)