

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: P454666

Luminaire Tested: **GALN-SA5D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31867 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

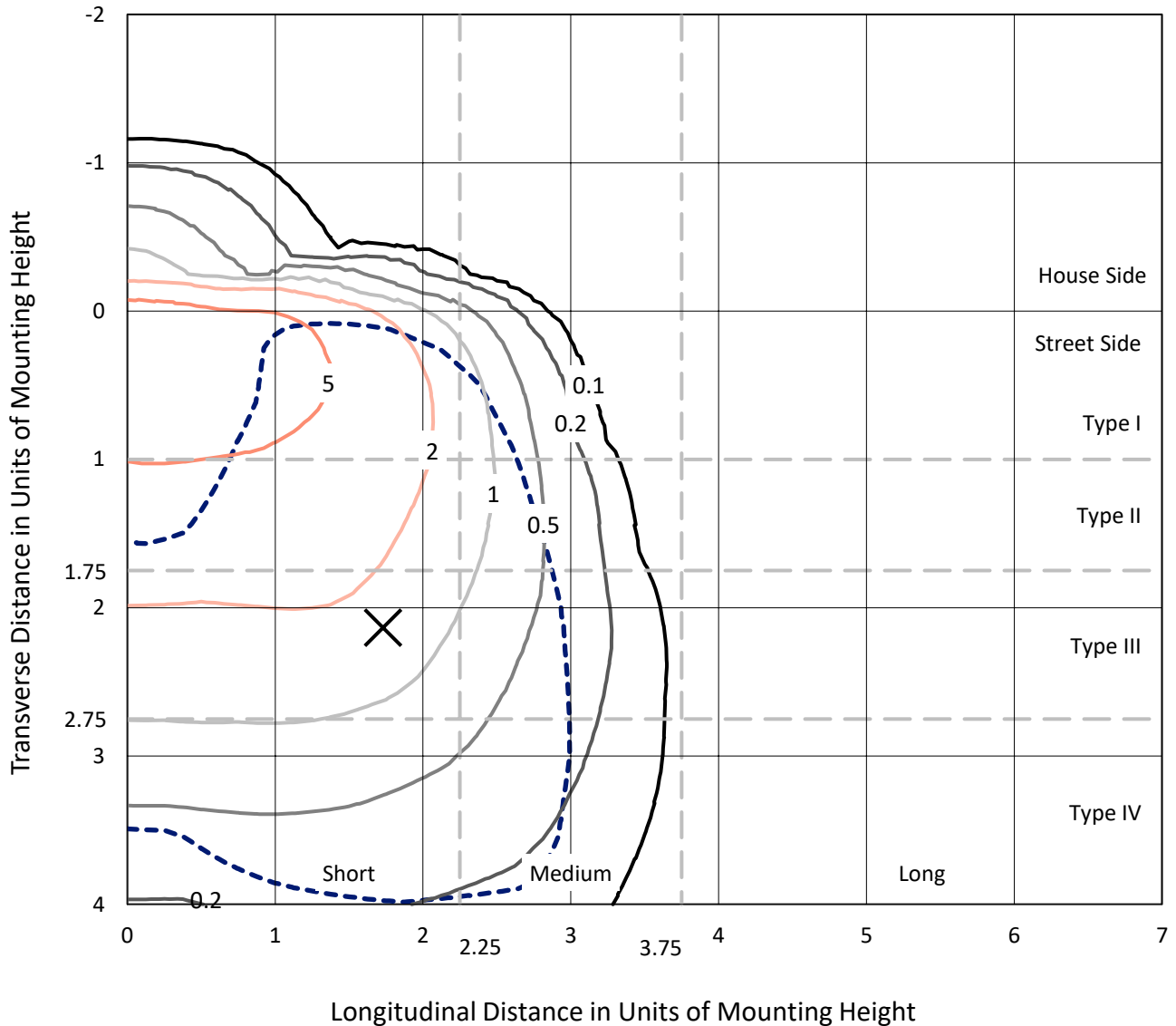
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

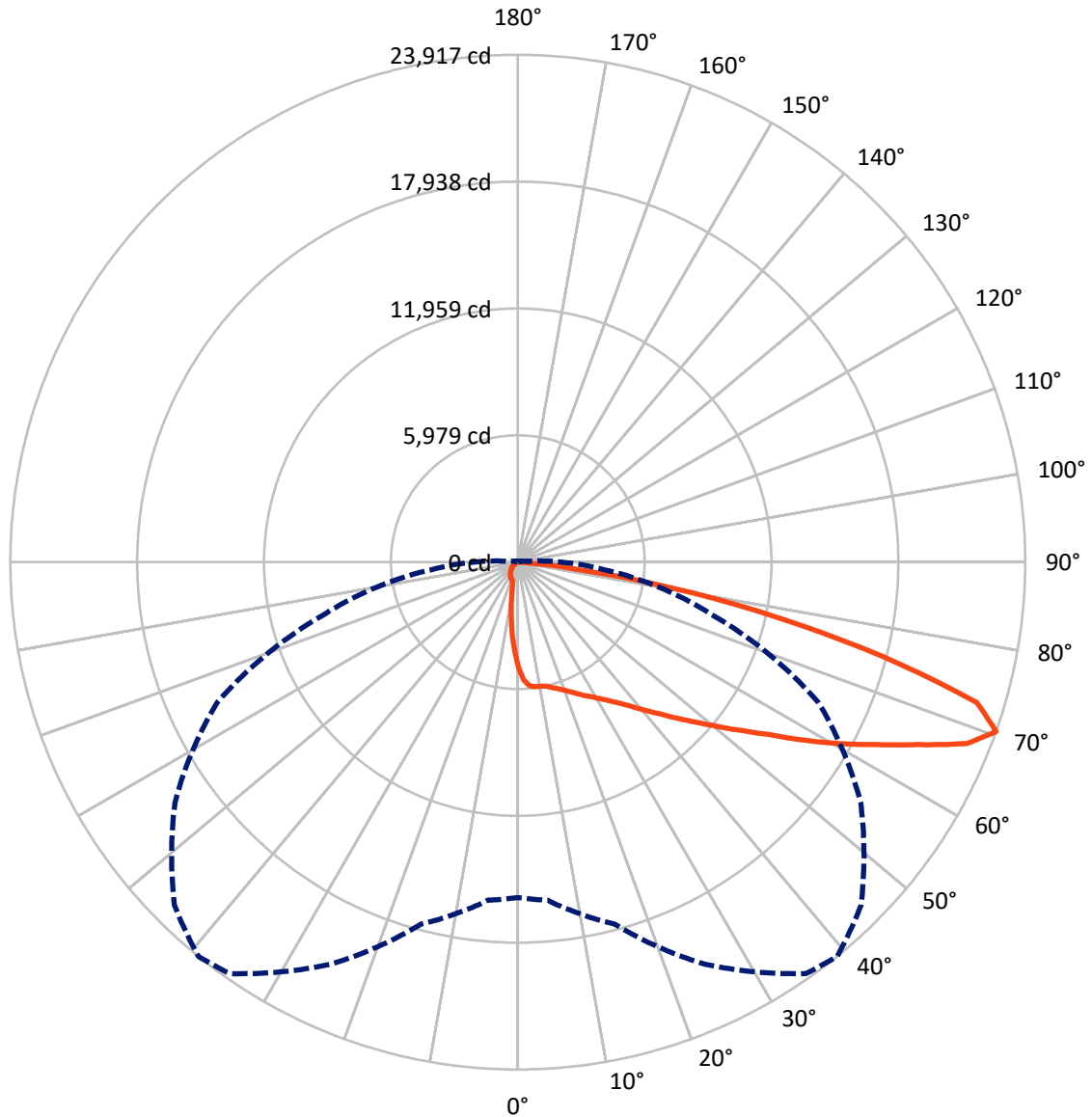
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.9	0.0	2077.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29789.1	0.0	29789.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	31867.0	0.0	31867.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	1.3
10°-20°	1102.1	3.5
20°-30°	1846.4	5.8
30°-40°	2863.5	9.0
40°-50°	4537.8	14.2
50°-60°	6651.7	20.9
60°-70°	8525.9	26.8
70°-80°	5357.4	16.8
80°-90°	558.1	1.8
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°	31867.0	100.0
0°-180°	31867.0	100.0



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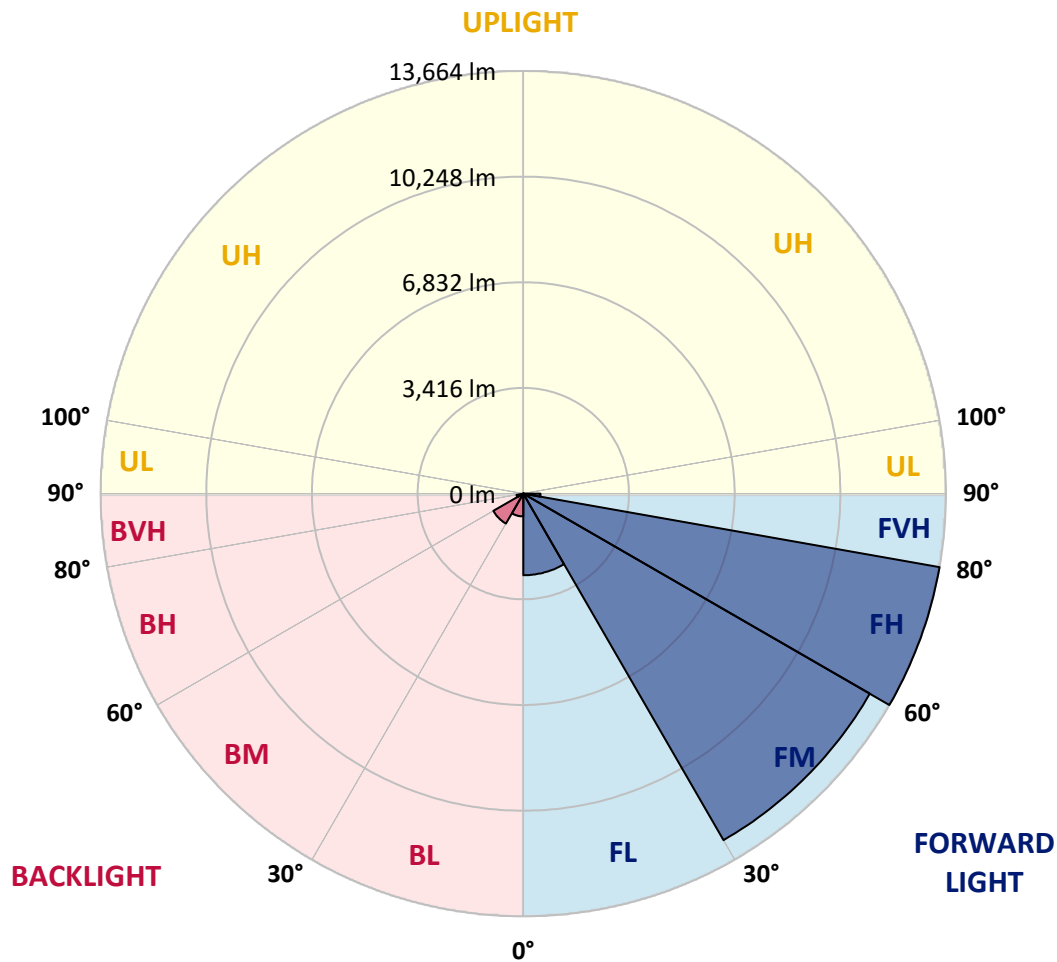
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2636.8	8.3			
FM (30°-60°)	12934.7	40.6			
FH (60°-80°)	13663.5	42.9			G5
FVH (80°-90°)	554.0	1.7			G4/750
BL (0°-30°)	735.8	2.3	B2/1000		
BM (30°-60°)	1118.3	3.5	B2/2500		
BH (60°-80°)	219.8	0.7	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3
2.5°	5745.4	5726.1	5700.4	5670.4	5584.8	5569.8	5518.4	5409.2	5278.6	5171.5	5023.7
5°	6017.4	6028.1	6008.8	5955.3	5893.1	5856.7	5792.5	5623.3	5454.2	5237.9	4995.9
7.5°	6079.5	6100.9	6077.3	6025.9	5966.0	5927.4	5876.0	5730.4	5533.4	5287.1	4955.2
10°	6073.0	6098.7	6083.7	6036.6	5987.4	5951.0	5895.3	5779.7	5621.2	5362.1	4968.1
12.5°	6062.3	6096.6	6094.4	6070.9	6030.2	6002.4	5968.1	5865.3	5717.6	5471.3	5038.7
15°	6032.3	6075.2	6113.7	6133.0	6135.1	6135.1	6092.3	5983.1	5841.8	5614.8	5130.8
17.5°	6045.2	6094.4	6190.8	6246.5	6285.0	6280.7	6235.8	6118.0	5961.7	5762.5	5227.2
20°	6124.4	6190.8	6325.7	6437.1	6475.6	6462.8	6402.8	6265.8	6088.0	5888.9	5321.4
22.5°	6319.3	6379.2	6548.4	6679.0	6706.9	6672.6	6587.0	6400.7	6240.1	6025.9	5434.9
25°	6610.5	6681.2	6837.5	6936.0	6936.0	6916.7	6796.8	6578.4	6411.4	6216.5	5582.6
27.5°	6963.9	7023.8	7178.0	7265.8	7214.4	7158.7	7038.8	6775.4	6614.8	6456.3	5760.4
30°	7321.5	7360.0	7522.8	7561.3	7507.8	7437.1	7308.6	7045.2	6903.9	6781.8	6017.4
32.5°	7659.8	7743.3	7878.2	7869.7	7796.9	7762.6	7644.8	7364.3	7285.1	7272.2	6377.1
35°	7998.2	8062.4	8182.3	8212.3	8148.1	8141.6	8056.0	7848.3	7850.4	7933.9	6938.2
37.5°	8289.4	8347.2	8488.5	8554.9	8567.8	8599.9	8565.6	8428.6	8623.4	8852.6	7681.2
40°	8533.5	8614.9	8794.8	8910.4	9043.2	9160.9	9167.4	9197.3	9589.2	9983.2	8651.3
42.5°	8724.1	8837.6	9098.8	9313.0	9617.1	9767.0	9886.9	10051.8	10711.3	11300.2	9794.8
45°	8972.5	9103.1	9428.6	9764.8	10240.2	10486.5	10653.5	11094.6	12030.4	12833.4	10968.3
47.5°	9383.6	9452.2	9784.1	10274.5	10899.8	11250.9	11576.4	12244.6	13445.9	14165.4	11944.8
50°	9912.6	9957.5	10208.1	10889.1	11698.5	12161.0	12754.2	13540.1	14914.9	15270.4	12497.2
52.5°	10497.2	10512.2	10700.6	11565.7	12593.6	13176.1	13839.9	14810.0	16111.9	16058.4	12863.4
55°	11176.0	11154.6	11315.2	12300.2	13653.6	14319.6	15092.6	16109.8	17150.5	16617.3	13073.3
57.5°	11953.3	11895.5	12051.8	13274.6	15011.3	15807.9	16593.8	17231.9	17955.7	17086.3	13173.9
60°	12767.1	12651.4	12837.7	14368.8	16610.9	17366.8	18019.9	18191.2	18803.7	17458.9	13000.5
62.5°	13415.9	13418.1	13765.0	15533.8	18255.5	18917.2	19264.1	19418.3	19533.9	17377.5	12088.2
65°	14428.8	14463.1	15017.7	17150.5	20159.2	20733.1	20970.8	20469.7	19566.0	16366.8	10717.7
67.5°	15473.8	15583.0	16598.0	19377.6	22358.4	22821.0	22514.7	20673.1	18692.3	14060.5	8126.6
70°	15814.3	15994.2	17666.6	20910.8	23677.5	23917.4	22880.9	19724.5	15625.8	9400.8	4090.1
72.5°	14490.9	14782.1	17052.0	20351.9	22836.0	22628.2	20471.8	16542.4	9934.0	3569.7	1248.4
75°	10218.8	10347.3	14171.8	16882.8	18366.8	17778.0	15572.3	10664.2	4085.8	1002.2	428.3
77.5°	5276.4	5214.3	8428.6	11201.7	13099.0	12488.7	10197.4	5520.5	1548.2	417.6	265.5
80°	2728.2	2773.1	3646.8	5869.6	7996.0	7357.9	5437.0	2559.0	824.4	231.3	203.4
82.5°	1529.0	1434.7	2096.4	2563.3	3738.9	2931.6	2085.7	1811.6	359.8	139.2	192.7
85°	278.4	291.2	1149.9	1385.5	1297.7	824.4	672.4	1209.9	104.9	77.1	134.9
87.5°	4.3	4.3	222.7	398.3	252.7	115.6	212.0	173.5	21.4	30.0	23.6
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°	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3	4972.3
2.5°	4948.8	4867.4	4715.4	4565.5	4374.9	4218.6	4113.6	4004.4	3893.1	3901.6	3927.3
5°	4863.1	4721.8	4422.0	4105.1	3801.0	3526.9	3257.1	3015.1	2916.6	2826.7	2830.9
7.5°	4777.5	4578.3	4139.3	3642.5	3182.1	2715.3	2377.0	2098.6	1950.8	1839.5	1807.3
10°	4738.9	4475.5	3880.2	3197.1	2544.0	2034.3	1599.6	1372.6	1197.0	1141.4	1156.4
12.5°	4756.1	4424.1	3646.8	2794.5	2017.2	1417.6	1113.5	997.9	959.3	952.9	948.6
15°	4788.2	4387.7	3417.7	2349.1	1481.9	1053.6	935.8	914.4	910.1	905.8	908.0
17.5°	4831.0	4355.6	3173.6	1931.5	1137.1	920.8	886.5	875.8	873.7	873.7	873.7
20°	4873.8	4319.2	2901.6	1558.9	948.6	869.4	848.0	841.6	839.4	839.4	837.3
22.5°	4923.1	4287.1	2625.4	1224.9	873.7	833.0	813.7	809.5	807.3	805.2	805.2
25°	4993.8	4246.4	2332.0	1002.2	826.6	798.7	779.5	775.2	773.0	764.5	766.6
27.5°	5088.0	4216.4	2030.1	865.1	783.8	755.9	743.1	736.6	732.4	725.9	728.1
30°	5216.5	4190.7	1708.8	790.2	734.5	710.9	698.1	693.8	689.5	683.1	683.1
32.5°	5439.2	4201.4	1370.5	730.2	689.5	661.7	648.8	644.6	640.3	633.9	633.9
35°	5773.2	4263.5	1096.4	678.8	636.0	608.2	595.3	595.3	588.9	580.3	578.2
37.5°	6319.3	4422.0	880.1	629.6	584.6	558.9	543.9	539.6	533.2	520.4	518.2
40°	6963.9	4668.3	740.9	580.3	537.5	511.8	498.9	486.1	469.0	456.1	454.0
42.5°	7773.3	4921.0	642.4	531.1	492.5	469.0	454.0	432.6	406.9	389.7	387.6
45°	8617.0	5152.2	576.0	486.1	449.7	430.4	413.3	379.0	346.9	325.5	323.4
47.5°	9246.6	5195.1	522.5	443.3	413.3	394.0	370.5	327.6	284.8	265.5	259.1
50°	9544.2	4987.3	466.8	400.4	376.9	355.5	325.5	276.2	229.1	205.6	201.3
52.5°	9649.2	4627.6	421.9	361.9	340.5	314.8	278.4	222.7	179.9	156.3	154.2
55°	9606.3	4173.6	381.2	325.5	297.7	267.7	231.3	177.7	132.8	113.5	109.2
57.5°	9381.5	3595.4	340.5	289.1	254.8	224.8	184.2	132.8	89.9	72.8	70.7
60°	8775.5	2807.4	299.8	248.4	216.3	184.2	145.6	94.2	55.7	40.7	40.7
62.5°	7751.9	2083.6	261.3	207.7	182.0	147.8	102.8	60.0	30.0	21.4	19.3
65°	6477.8	1537.5	218.4	175.6	152.0	115.6	72.8	36.4	15.0	6.4	4.3
67.5°	4520.5	948.6	182.0	143.5	124.2	83.5	45.0	15.0	6.4	0.0	0.0
70°	2053.6	451.8	139.2	109.2	94.2	60.0	23.6	8.6	4.3	0.0	0.0
72.5°	638.1	237.7	98.5	79.2	64.2	38.5	12.8	6.4	4.3	0.0	0.0
75°	295.5	152.0	62.1	42.8	36.4	19.3	8.6	4.3	2.1	0.0	0.0
77.5°	220.6	117.8	36.4	23.6	19.3	12.8	6.4	4.3	2.1	0.0	0.0
80°	192.7	60.0	21.4	15.0	10.7	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	173.5	30.0	12.8	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0
85°	94.2	17.1	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.1	8.6	6.4	4.3	4.3	2.1	2.1	2.1	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)