

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: P459422

Luminaire Tested: **GALN-SA8D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459422
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-SA8D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 47867 lumens
Efficiency: N/A
Efficacy: 97.1 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

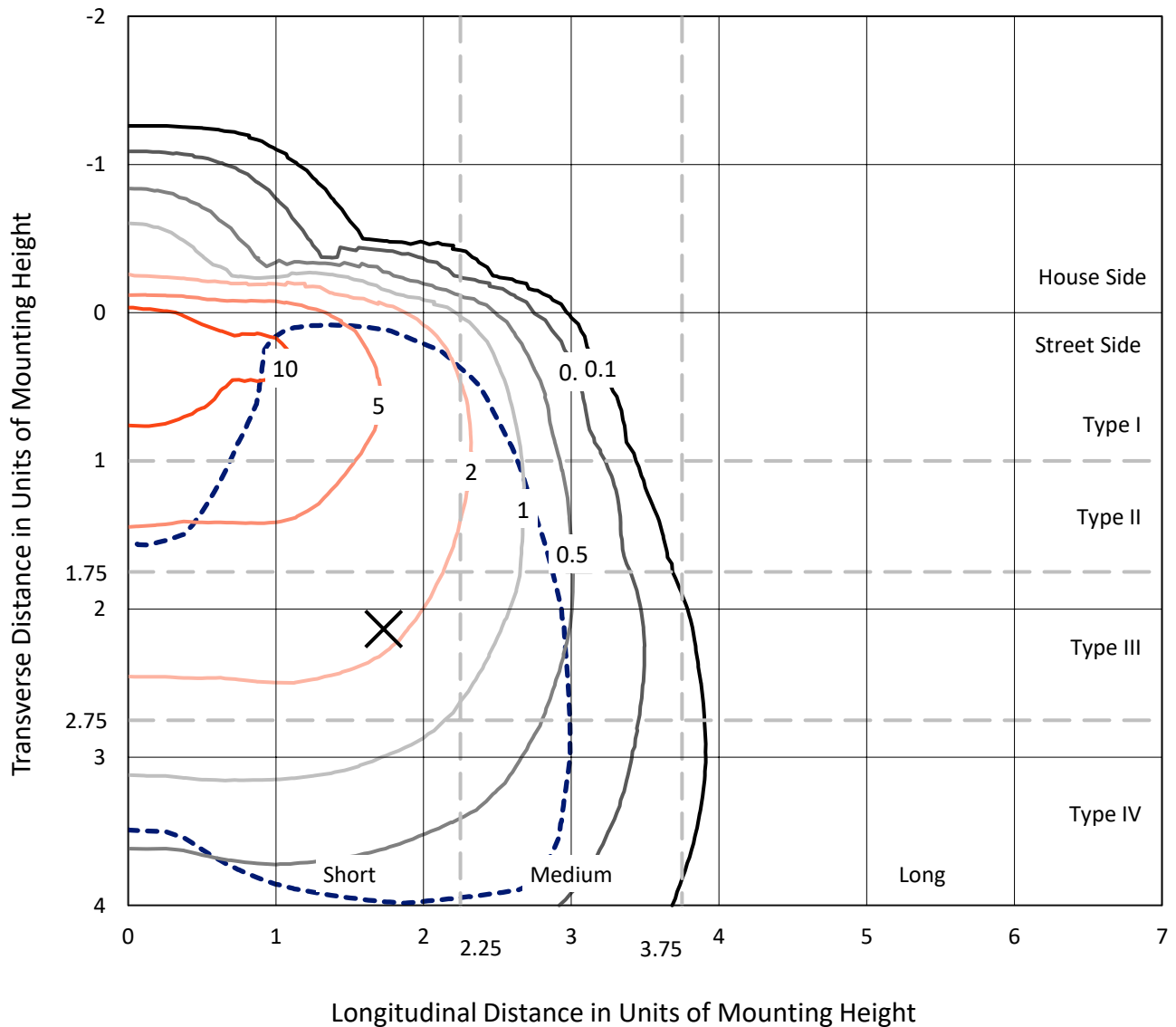
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

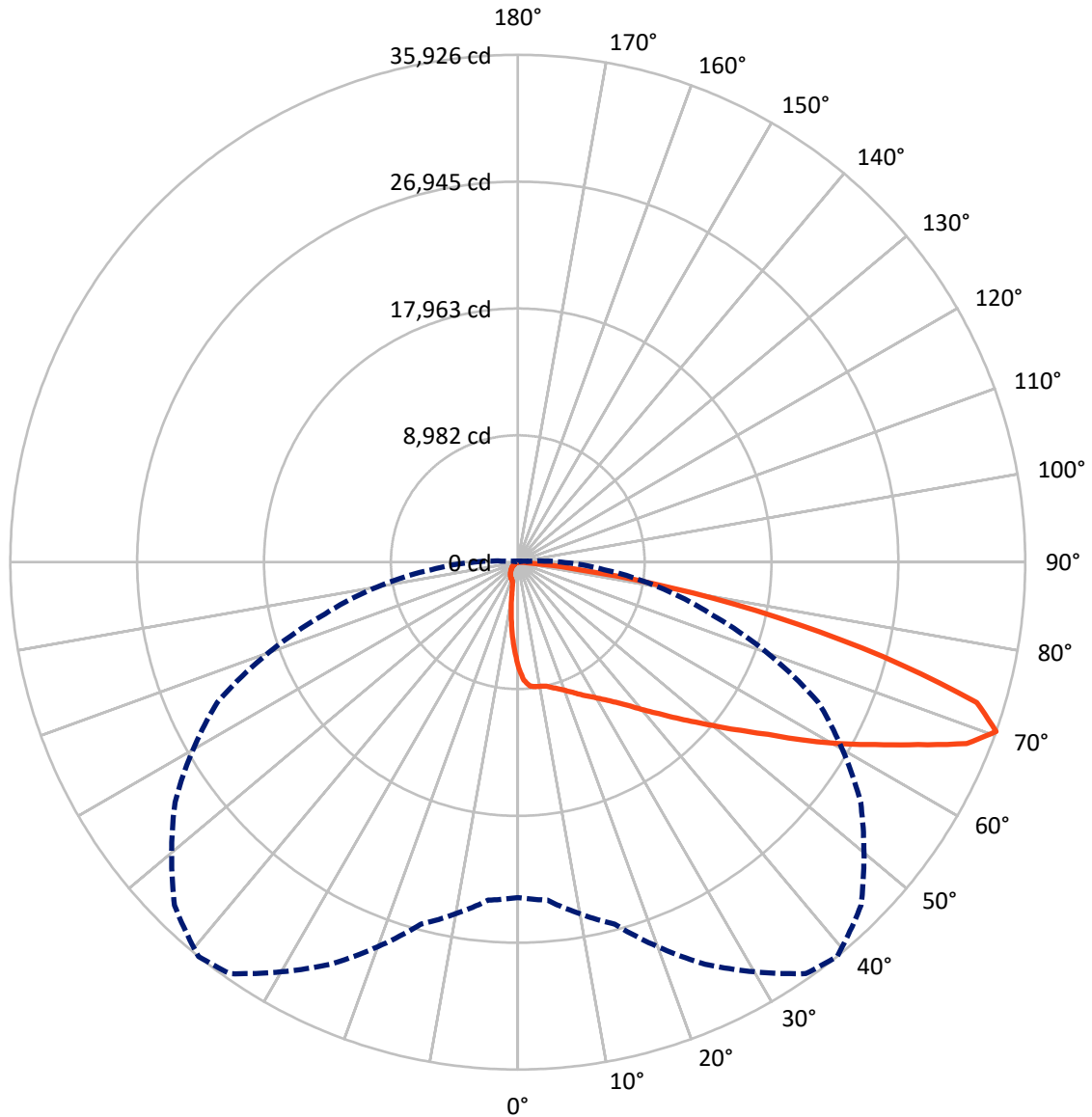
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	3121.1	0.0	3121.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	44745.8	0.0	44745.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	47867.0	0.0	47867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.0	1.3
10°-20°	1655.5	3.5
20°-30°	2773.4	5.8
30°-40°	4301.2	9.0
40°-50°	6816.1	14.2
50°-60°	9991.5	20.9
60°-70°	12806.6	26.8
70°-80°	8047.3	16.8
80°-90°	838.3	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°	47867.0	100.0
0°-180°	47867.0	100.0

Coefficient of Utilization



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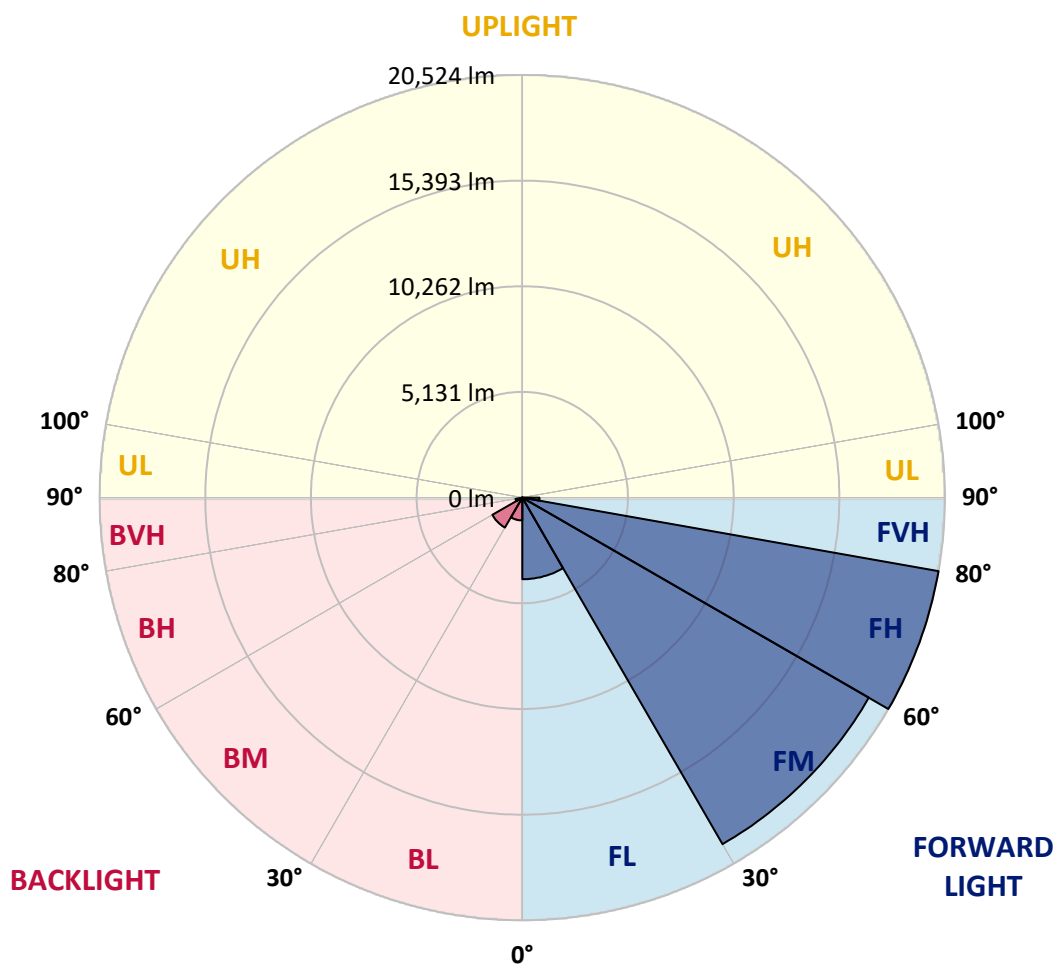
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3960.8	8.3			
FM (30°-60°)	19429.1	40.6			
FH (60°-80°)	20523.8	42.9			G5
FVH (80°-90°)	832.2	1.7			G5
BL (0°-30°)	1105.2	2.3	B3/2500		
BM (30°-60°)	1679.7	3.5	B2/2500		
BH (60°-80°)	330.1	0.7	B1/500		G1/500
BVH (80°-90°)	6.2	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°	35°	39°	45°	55°	65°	75°	85°
0°	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9
2.5°	8630.1	8601.1	8562.5	8517.5	8388.8	8366.3	8289.1	8125.1	7928.9	7768.0	7546.1
5°	9038.6	9054.7	9025.7	8945.3	8852.0	8797.3	8700.8	8446.7	8192.6	7867.7	7504.3
7.5°	9131.9	9164.0	9128.6	9051.5	8961.4	8903.5	8826.3	8607.6	8311.6	7941.7	7443.2
10°	9122.2	9160.8	9138.3	9067.5	8993.6	8938.9	8855.2	8681.5	8443.5	8054.3	7462.5
12.5°	9106.1	9157.6	9154.4	9119.0	9057.9	9016.1	8964.6	8810.2	8588.3	8218.4	7568.6
15°	9061.1	9125.4	9183.3	9212.3	9215.5	9215.5	9151.2	8987.1	8774.8	8433.9	7706.9
17.5°	9080.4	9154.4	9299.1	9382.8	9440.7	9434.2	9366.7	9189.8	8955.0	8655.8	7851.7
20°	9199.4	9299.1	9501.8	9669.0	9726.9	9707.6	9617.6	9411.7	9144.7	8845.6	7993.2
22.5°	9492.1	9582.2	9836.3	10032.5	10074.3	10022.9	9894.2	9614.4	9373.1	9051.5	8163.7
25°	9929.6	10035.7	10270.5	10418.5	10418.5	10389.5	10209.4	9881.3	9630.4	9337.7	8385.6
27.5°	10460.3	10550.4	10782.0	10913.8	10836.7	10753.0	10572.9	10177.3	9936.0	9698.0	8652.6
30°	10997.5	11055.4	11299.8	11357.7	11277.3	11171.2	10978.2	10582.5	10370.2	10186.9	9038.6
32.5°	11505.7	11631.1	11833.8	11820.9	11711.6	11660.1	11483.2	11061.8	10942.8	10923.5	9579.0
35°	12013.9	12110.4	12290.5	12335.6	12239.1	12229.4	12100.8	11788.8	11792.0	11917.4	10421.7
37.5°	12451.4	12538.2	12750.5	12850.2	12869.5	12917.8	12866.3	12660.5	12953.2	13297.3	11537.9
40°	12818.1	12940.3	13210.5	13384.2	13583.6	13760.5	13770.2	13815.2	14403.8	14995.7	12995.0
42.5°	13104.3	13274.8	13667.2	13988.9	14445.7	14670.8	14850.9	15098.6	16089.3	16973.9	14712.6
45°	13477.5	13673.7	14162.6	14667.6	15381.7	15751.6	16002.5	16665.1	18070.7	19277.0	16475.3
47.5°	14095.0	14198.0	14696.5	15433.1	16372.4	16899.9	17388.8	18392.4	20196.9	21277.7	17942.1
50°	14889.5	14957.1	15333.4	16356.3	17572.2	18266.9	19157.9	20338.4	22403.5	22937.4	18771.9
52.5°	15767.7	15790.2	16073.2	17372.7	18916.7	19791.6	20788.7	22245.9	24201.5	24121.1	19322.0
55°	16787.3	16755.2	16996.4	18476.0	20508.9	21509.3	22670.4	24198.3	25761.6	24960.6	19637.2
57.5°	17954.9	17868.1	18102.9	19939.6	22548.2	23744.8	24925.3	25883.8	26971.0	25665.1	19788.4
60°	19177.2	19003.5	19283.4	21583.2	24951.0	26086.4	27067.5	27324.8	28244.8	26224.8	19527.8
62.5°	20151.9	20155.1	20676.2	23333.1	27421.3	28415.2	28936.3	29167.9	29341.6	26102.5	18157.6
65°	21673.3	21724.8	22557.9	25761.6	30280.9	31142.9	31499.9	30747.3	29389.9	24584.3	16099.0
67.5°	23243.0	23407.0	24931.7	29106.8	33584.3	34279.1	33819.1	31052.8	28077.5	21120.1	12206.9
70°	23754.4	24024.6	26536.8	31409.9	35565.7	35926.0	34369.1	29627.9	23471.4	14120.8	6143.7
72.5°	21766.6	22204.0	25613.6	30570.4	34301.6	33989.6	30750.5	24848.1	14921.7	5362.0	1875.3
75°	15349.5	15542.5	21287.3	25359.5	27588.6	26704.0	23391.0	16018.6	6137.2	1505.4	643.3
77.5°	7925.6	7832.4	12660.5	16825.9	19675.8	18759.1	15317.3	8292.3	2325.6	627.2	398.9
80°	4097.9	4165.5	5477.8	8816.6	12010.7	11052.2	8166.9	3843.8	1238.4	347.4	305.6
82.5°	2296.6	2155.1	3149.0	3850.2	5616.1	4403.5	3132.9	2721.2	540.4	209.1	289.5
85°	418.2	437.5	1727.3	2081.1	1949.2	1238.4	1010.0	1817.4	157.6	115.8	202.6
87.5°	6.4	6.4	334.5	598.3	379.6	173.7	318.4	260.5	32.2	45.0	35.4
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°	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9	7468.9
2.5°	7433.5	7311.3	7082.9	6857.7	6571.5	6336.7	6179.0	6015.0	5847.7	5860.6	5899.2
5°	7304.8	7092.6	6642.2	6166.2	5709.4	5297.7	4892.4	4528.9	4381.0	4245.9	4252.3
7.5°	7176.2	6877.0	6217.6	5471.4	4779.8	4078.6	3570.4	3152.2	2930.3	2763.0	2714.8
10°	7118.3	6722.6	5828.4	4802.4	3821.3	3055.7	2402.8	2061.8	1798.1	1714.4	1737.0
12.5°	7144.0	6645.4	5477.8	4197.6	3030.0	2129.4	1672.6	1498.9	1441.0	1431.4	1424.9
15°	7192.3	6590.8	5133.7	3528.6	2225.9	1582.6	1405.6	1373.5	1367.0	1360.6	1363.8
17.5°	7256.6	6542.5	4767.0	2901.4	1708.0	1383.1	1331.7	1315.6	1312.4	1312.4	1312.4
20°	7320.9	6487.8	4358.5	2341.7	1424.9	1305.9	1273.8	1264.1	1260.9	1260.9	1257.7
22.5°	7394.9	6439.6	3943.5	1839.9	1312.4	1251.2	1222.3	1215.9	1212.6	1209.4	1209.4
25°	7501.1	6378.5	3502.9	1505.4	1241.6	1199.8	1170.8	1164.4	1161.2	1148.3	1151.5
27.5°	7642.6	6333.4	3049.3	1299.5	1177.3	1135.5	1116.2	1106.5	1100.1	1090.4	1093.6
30°	7835.6	6294.8	2566.8	1186.9	1103.3	1067.9	1048.6	1042.2	1035.7	1026.1	1026.1
32.5°	8170.1	6310.9	2058.6	1096.9	1035.7	993.9	974.6	968.2	961.8	952.1	952.1
35°	8671.9	6404.2	1646.9	1019.7	955.3	913.5	894.2	894.2	884.6	871.7	868.5
37.5°	9492.1	6642.2	1322.0	945.7	878.1	839.5	817.0	810.6	800.9	781.6	778.4
40°	10460.3	7012.1	1112.9	871.7	807.4	768.8	749.5	730.2	704.4	685.1	681.9
42.5°	11676.2	7391.7	965.0	797.7	739.8	704.4	681.9	649.7	611.1	585.4	582.2
45°	12943.5	7739.1	865.3	730.2	675.5	646.5	620.8	569.3	521.1	488.9	485.7
47.5°	13889.2	7803.4	784.8	665.8	620.8	591.9	556.5	492.1	427.8	398.9	389.2
50°	14336.3	7491.4	701.2	601.5	566.1	534.0	488.9	414.9	344.2	308.8	302.4
52.5°	14493.9	6951.0	633.7	543.6	511.4	472.8	418.2	334.5	270.2	234.8	231.6
55°	14429.6	6269.1	572.6	488.9	447.1	402.1	347.4	267.0	199.4	170.5	164.0
57.5°	14091.8	5400.6	511.4	434.2	382.8	337.7	276.6	199.4	135.1	109.4	106.1
60°	13181.5	4216.9	450.3	373.1	324.9	276.6	218.7	141.5	83.6	61.1	61.1
62.5°	11644.0	3129.7	392.4	312.0	273.4	221.9	154.4	90.1	45.0	32.2	28.9
65°	9730.1	2309.5	328.1	263.8	228.4	173.7	109.4	54.7	22.5	9.6	6.4
67.5°	6790.2	1424.9	273.4	215.5	186.6	125.4	67.5	22.5	9.6	0.0	0.0
70°	3084.7	678.7	209.1	164.0	141.5	90.1	35.4	12.9	6.4	0.0	0.0
72.5°	958.5	357.0	148.0	119.0	96.5	57.9	19.3	9.6	6.4	0.0	0.0
75°	443.9	228.4	93.3	64.3	54.7	28.9	12.9	6.4	3.2	0.0	0.0
77.5°	331.3	176.9	54.7	35.4	28.9	19.3	9.6	6.4	3.2	0.0	0.0
80°	289.5	90.1	32.2	22.5	16.1	12.9	6.4	3.2	0.0	0.0	0.0
82.5°	260.5	45.0	19.3	12.9	9.6	6.4	3.2	3.2	0.0	0.0	0.0
85°	141.5	25.7	12.9	9.6	6.4	3.2	3.2	0.0	0.0	0.0	0.0
87.5°	25.7	12.9	9.6	6.4	6.4	3.2	3.2	3.2	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)