

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: P452092

Luminaire Tested: **GALN-SA3A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9294 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

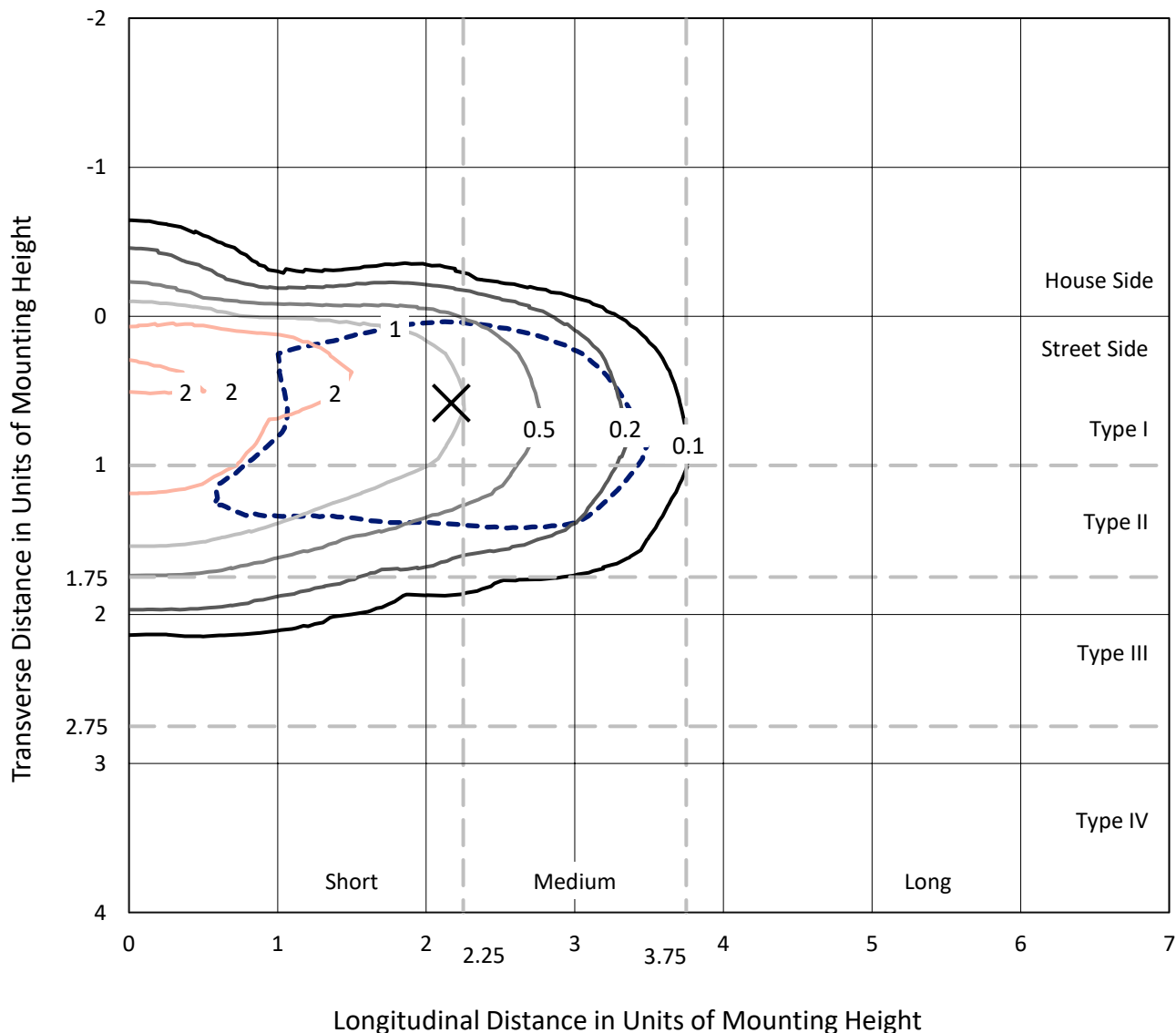
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

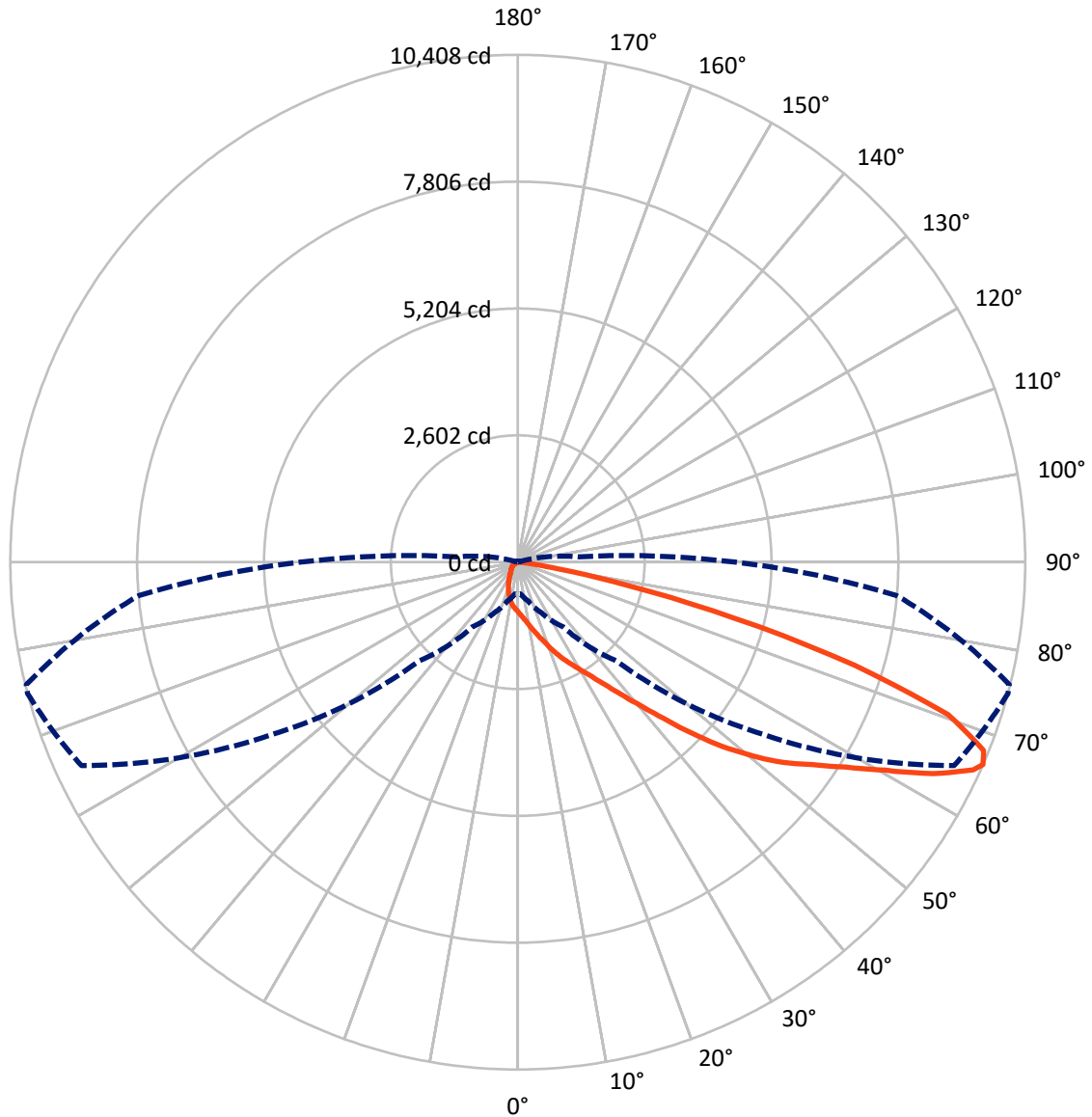
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.8	0.0	573.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8720.2	0.0	8720.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	9294.0	0.0	9294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.1
10°-20°	288.5	3.1
20°-30°	498.2	5.4
30°-40°	898.7	9.7
40°-50°	1623.4	17.5
50°-60°	2530.9	27.2
60°-70°	2404.3	25.9
70°-80°	901.1	9.7
80°-90°	50.8	0.5
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°	9294.0	100.0
0°-180°	9294.0	100.0

Coefficient of Utilization



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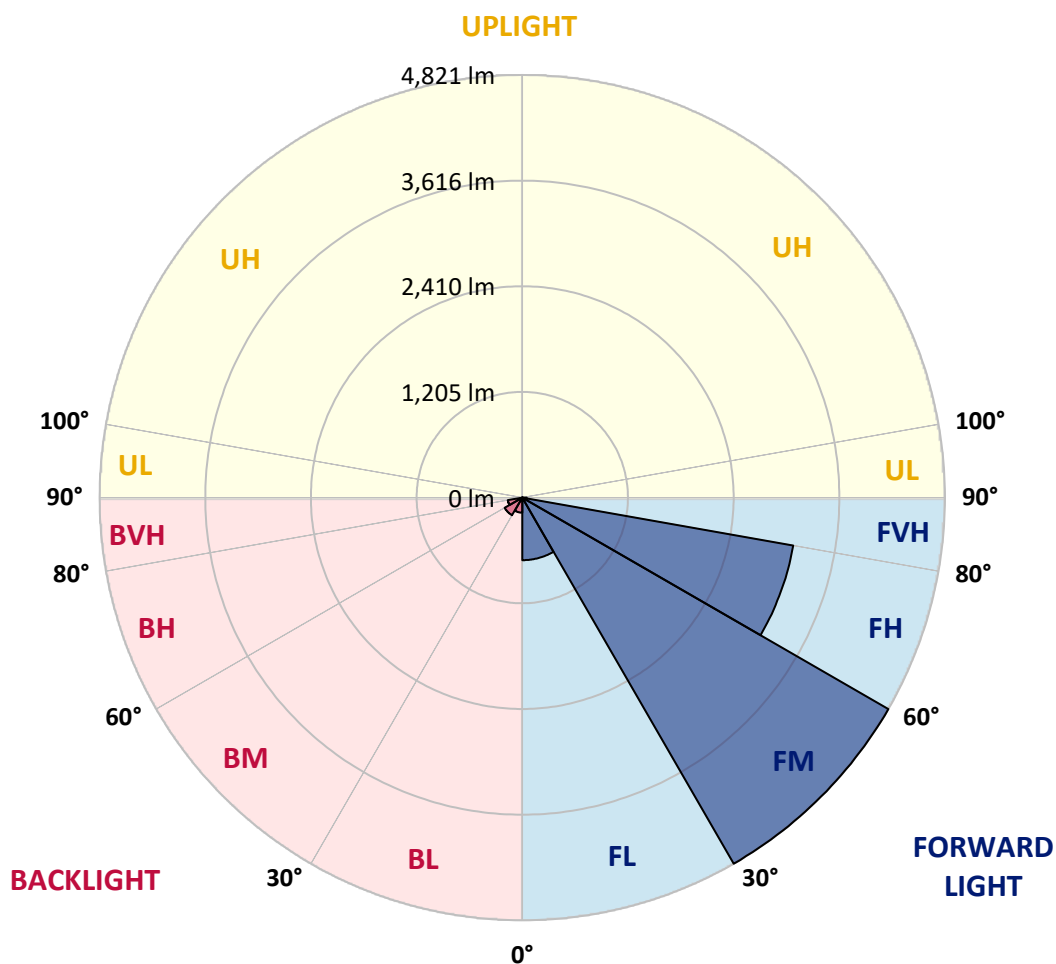
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.4	7.7			
FM (30°-60°)	4820.8	51.9			
FH (60°-80°)	3137.8	33.8			G2/5000
FVH (80°-90°)	48.2	0.5			G1/100
BL (0°-30°)	171.4	1.8	B1/500		
BM (30°-60°)	232.2	2.5	B1/1000		
BH (60°-80°)	167.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4
2.5°	1214.3	1199.2	1204.0	1197.1	1181.3	1158.0	1137.3	1107.8	1078.2	1073.4	1040.4
5°	1374.4	1370.3	1364.8	1344.9	1333.9	1298.1	1255.5	1204.7	1143.5	1132.5	1072.7
7.5°	1483.7	1481.6	1484.4	1474.1	1464.5	1432.2	1386.8	1317.4	1222.6	1216.4	1116.7
10°	1519.4	1524.9	1535.2	1551.7	1566.8	1556.5	1522.2	1435.6	1325.0	1307.1	1166.9
12.5°	1498.8	1505.0	1529.7	1573.7	1622.5	1650.7	1636.9	1573.7	1433.5	1419.1	1223.2
15°	1445.9	1453.5	1488.5	1556.5	1643.8	1723.5	1757.9	1712.5	1560.0	1536.6	1291.3
17.5°	1367.6	1378.6	1428.7	1518.7	1638.3	1775.8	1872.7	1857.5	1694.7	1672.7	1365.5
20°	1308.5	1316.7	1359.3	1462.4	1615.0	1804.6	1981.9	2024.5	1861.0	1823.2	1452.8
22.5°	1347.6	1350.4	1364.8	1426.7	1573.0	1812.2	2078.1	2198.4	2037.6	2003.9	1543.5
25°	1539.4	1511.9	1497.4	1483.7	1564.1	1805.3	2165.4	2379.8	2213.5	2177.8	1633.5
27.5°	1841.7	1829.4	1756.5	1658.9	1640.4	1814.2	2223.1	2551.6	2379.1	2340.7	1721.5
30°	2170.9	2149.6	2104.9	1962.0	1818.4	1877.5	2265.1	2718.6	2575.0	2524.1	1801.9
32.5°	2473.3	2487.0	2420.4	2273.3	2107.0	2012.2	2319.4	2900.7	2799.7	2736.5	1895.3
35°	2825.8	2853.3	2750.9	2610.0	2415.6	2255.4	2425.2	3106.2	3084.9	3005.2	2039.7
37.5°	3183.9	3200.4	3137.8	2939.9	2764.7	2564.7	2624.5	3359.8	3436.1	3368.0	2212.1
40°	3484.9	3507.5	3461.5	3285.6	3098.7	2922.7	2913.8	3636.1	3853.9	3783.8	2469.2
42.5°	3715.1	3732.3	3733.6	3609.3	3440.9	3361.2	3282.8	3988.6	4377.6	4296.5	2767.4
45°	4005.8	4030.5	4016.1	3931.6	3805.8	3791.4	3750.8	4414.7	5004.3	4901.9	3154.3
47.5°	4455.2	4471.7	4436.0	4336.3	4208.5	4231.2	4207.1	4892.3	5643.4	5555.4	3555.0
50°	4767.2	4794.7	4845.6	4885.4	4792.6	4708.8	4637.3	5338.3	6250.2	6171.2	3964.5
52.5°	4763.8	4809.1	4969.9	5170.6	5373.3	5347.9	5142.4	5831.0	6829.5	6732.0	4349.4
55°	4442.8	4530.8	4767.2	5123.2	5684.6	5964.3	5870.9	6401.4	7329.8	7263.9	4795.4
57.5°	3780.4	3834.0	4162.5	4660.0	5510.8	6254.3	6714.8	7174.5	7929.8	7898.8	5488.1
60°	2542.7	2566.7	2989.4	3604.4	4691.6	5965.0	7333.3	8109.8	8668.5	8653.4	6296.9
62.5°	1456.9	1467.2	1773.7	2292.5	3338.5	5055.2	7385.5	9263.7	9554.3	9562.6	7232.9
65°	784.1	789.6	1037.0	1345.6	2031.4	3603.1	6641.2	9895.9	10270.4	10286.2	7812.9
66°	676.9	650.8	825.3	1147.0	1616.3	2867.7	6170.5	9873.2	10407.9	10390.7	7792.3
67.5°	514.7	538.1	659.0	881.7	1197.8	2039.0	5094.3	9434.1	10303.4	10249.8	7475.5
70°	368.3	378.0	469.4	628.8	815.7	1118.8	3255.3	7835.6	9364.7	9292.5	6512.7
72.5°	237.8	248.1	332.6	454.9	589.6	610.9	1822.5	5661.3	7219.9	7209.6	4904.7
75°	169.7	179.4	219.9	325.7	443.3	378.0	877.6	3815.4	4589.9	4559.0	3034.1
77.5°	123.0	127.8	147.1	213.0	316.8	270.8	406.8	2037.6	2285.0	2392.9	1340.8
80°	70.8	74.9	102.4	129.9	214.4	184.9	194.5	817.8	843.2	802.7	419.2
82.5°	35.0	39.9	61.2	88.7	134.0	124.4	89.3	246.0	259.8	252.9	105.8
85°	8.2	10.3	34.4	58.4	65.3	55.7	43.3	72.2	89.3	87.3	40.5
87.5°	0.7	1.4	12.4	10.3	11.0	18.6	15.1	18.6	28.9	26.8	14.4
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°	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4	1016.4
2.5°	1025.3	1012.3	974.5	937.4	906.4	874.1	844.6	827.4	820.5	813.0	816.4
5°	1039.8	1008.1	931.9	865.9	801.3	746.3	702.3	674.2	660.4	658.4	654.9
7.5°	1059.0	1004.7	886.5	783.4	698.9	637.7	587.6	547.0	534.7	523.7	514.7
10°	1082.4	998.5	830.2	696.8	606.8	529.8	463.9	415.8	391.0	384.2	389.0
12.5°	1107.1	986.8	771.1	617.1	513.3	415.1	353.9	329.9	323.0	320.2	320.9
15°	1131.8	972.4	709.2	540.2	408.9	331.2	303.1	296.9	294.1	292.8	291.4
17.5°	1154.5	949.0	639.8	465.2	331.2	283.1	272.8	267.3	261.8	259.8	256.3
20°	1181.3	922.2	577.3	381.4	280.4	256.3	244.0	233.7	225.4	219.9	219.2
22.5°	1206.7	887.9	512.0	316.1	255.6	230.2	210.3	199.3	189.7	182.8	184.9
25°	1220.5	846.0	453.6	275.6	233.0	204.1	182.1	168.4	158.1	154.6	153.9
27.5°	1220.5	794.4	396.5	252.2	212.3	180.7	158.1	145.0	138.1	133.3	134.0
30°	1210.9	737.4	343.6	234.3	194.5	160.1	138.8	127.1	121.6	118.2	117.5
32.5°	1203.3	683.1	298.3	217.2	175.9	142.3	123.7	114.8	109.3	105.8	105.8
35°	1215.0	636.4	263.2	200.0	158.7	128.5	112.0	103.8	98.3	95.5	94.8
37.5°	1245.9	593.8	236.4	181.4	142.9	116.8	103.8	94.1	88.7	85.2	83.8
40°	1322.2	569.7	216.5	164.2	127.8	107.2	94.1	85.2	78.3	74.9	74.2
42.5°	1444.5	570.4	197.2	148.4	116.1	99.0	85.9	75.6	68.0	64.6	63.9
45°	1628.7	596.5	182.1	133.3	105.8	90.0	77.0	66.0	59.1	55.7	55.7
47.5°	1849.3	647.4	169.1	120.3	96.2	81.8	68.0	57.0	50.2	47.4	47.4
50°	2088.4	713.3	156.0	106.5	88.0	72.8	58.4	49.5	44.0	41.9	41.9
52.5°	2332.4	793.0	142.9	95.5	79.0	63.2	50.2	44.0	39.2	37.8	37.1
55°	2652.6	894.8	129.2	83.8	69.4	54.3	44.7	38.5	33.0	30.9	30.2
57.5°	3145.4	1048.0	114.1	73.5	57.0	45.4	38.5	32.3	26.1	22.7	22.0
60°	3739.8	1234.9	98.3	64.6	46.0	37.1	30.9	24.7	19.2	15.1	14.4
62.5°	4296.5	1353.8	83.2	54.3	36.4	28.2	22.0	18.6	13.7	9.6	8.9
65°	4542.5	1314.0	68.7	44.0	28.9	19.9	14.4	13.1	8.2	4.1	3.4
66°	4460.7	1254.9	63.2	39.9	26.1	17.2	12.4	11.0	6.2	2.1	2.1
67.5°	4219.5	1115.3	55.0	34.4	22.7	13.7	9.6	8.2	3.4	0.7	0.0
70°	3615.4	902.3	43.3	25.4	16.5	9.6	5.5	4.1	2.1	0.0	0.0
72.5°	2777.0	672.1	34.4	19.2	11.7	5.5	2.7	1.4	2.1	0.0	0.0
75°	1701.5	384.2	26.8	14.4	7.6	3.4	2.1	0.0	2.1	0.7	0.0
77.5°	755.2	172.5	17.9	9.6	5.5	2.7	1.4	0.0	1.4	0.7	0.0
80°	191.0	56.4	10.3	6.9	4.1	2.1	0.7	0.0	1.4	1.4	0.7
82.5°	52.2	20.6	7.6	5.5	3.4	2.1	0.7	0.0	1.4	1.4	1.4
85°	20.6	9.6	6.9	5.5	4.1	2.1	0.7	0.0	1.4	1.4	1.4
87.5°	9.6	6.9	6.9	6.2	4.8	2.1	0.7	0.0	1.4	0.7	1.4
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)