

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: P453020

Luminaire Tested: **GALN-SA4A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453020
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-SA4A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12317 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

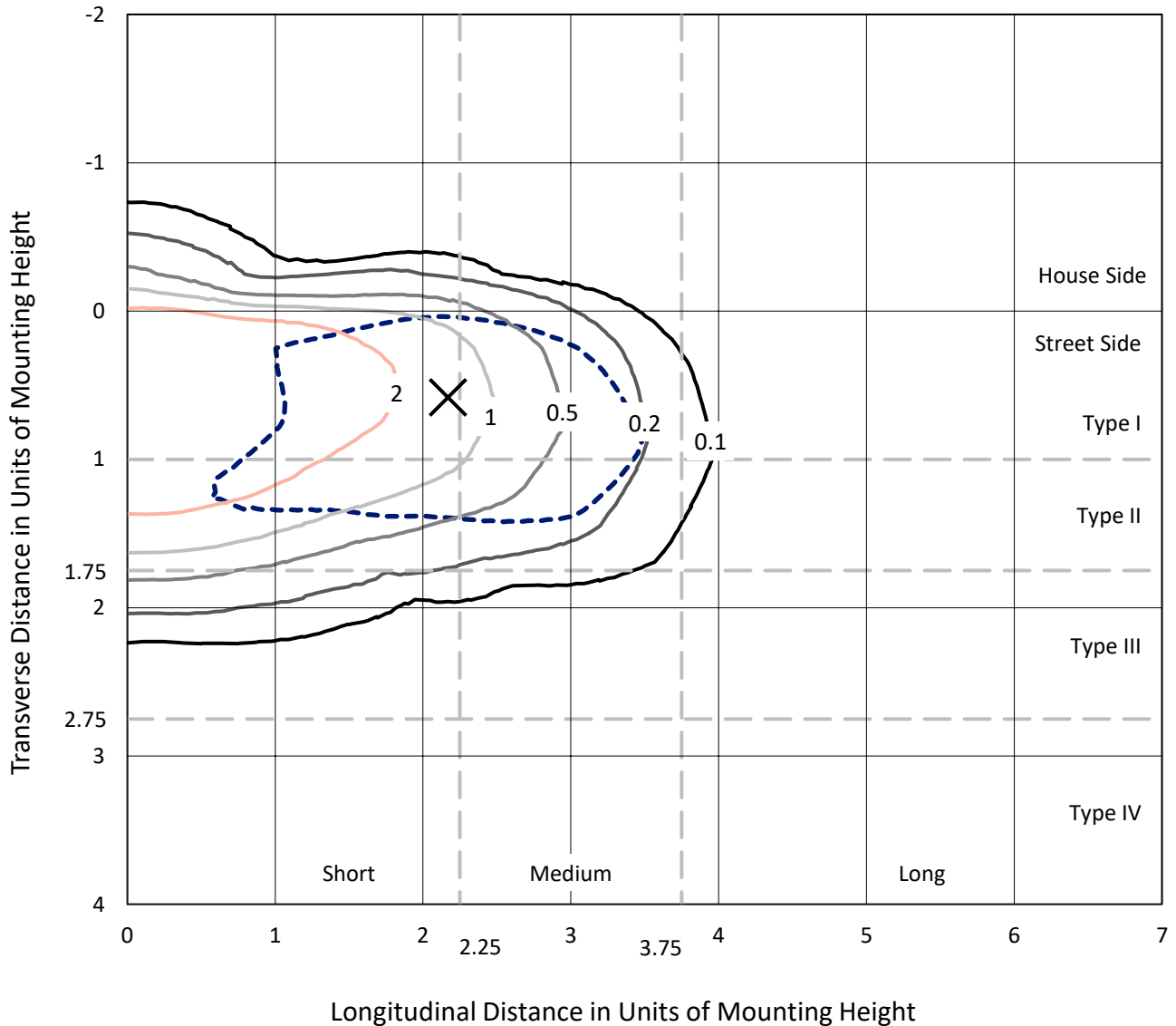
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

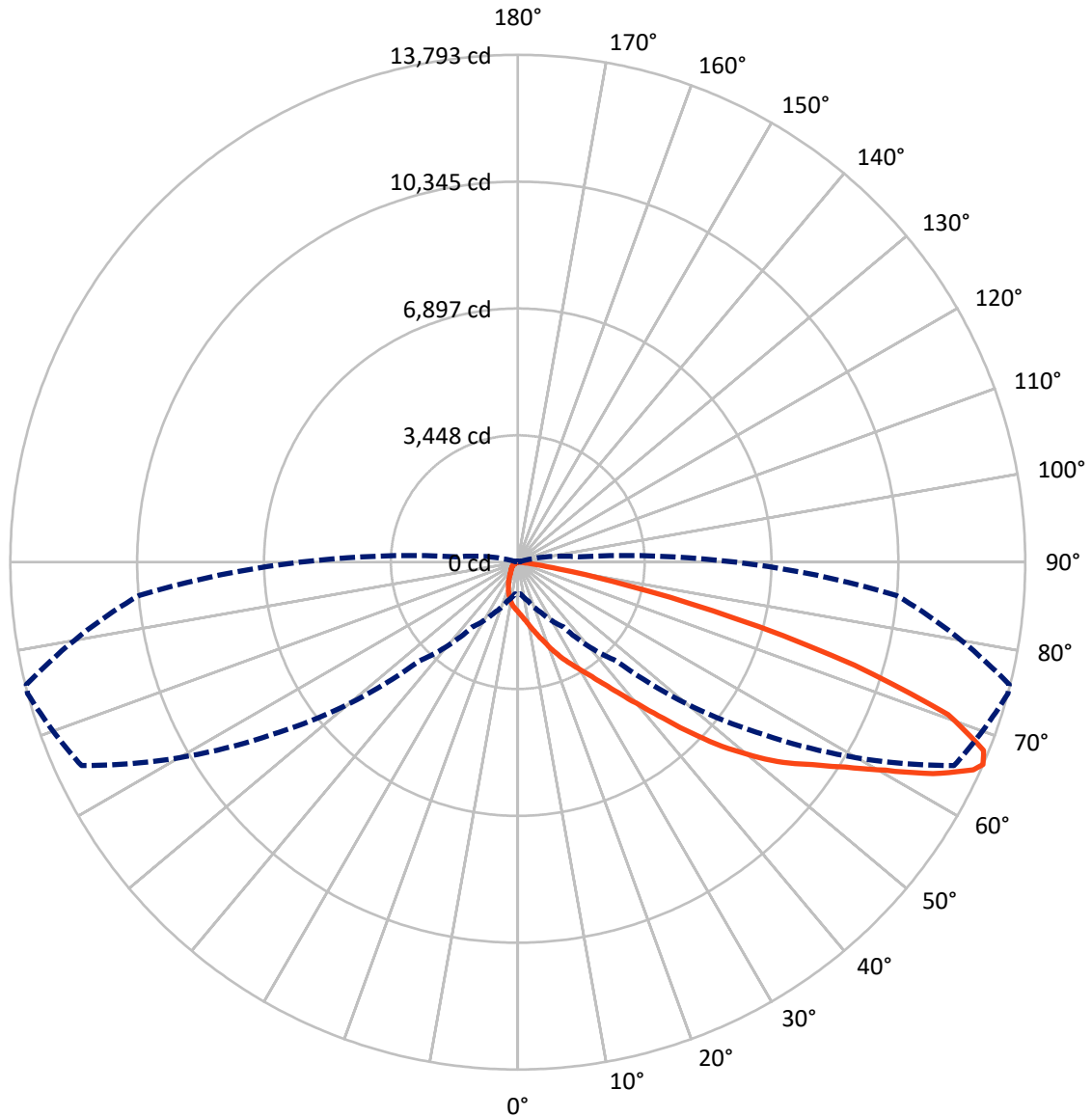
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	760.4	0.0	760.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11556.6	0.0	11556.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	12317.0	0.0	12317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.1
10°-20°	382.4	3.1
20°-30°	660.2	5.4
30°-40°	1190.9	9.7
40°-50°	2151.5	17.5
50°-60°	3354.2	27.2
60°-70°	3186.3	25.9
70°-80°	1194.2	9.7
80°-90°	67.4	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°	12317.0	100.0
0°-180°	12317.0	100.0

Coefficient of Utilization



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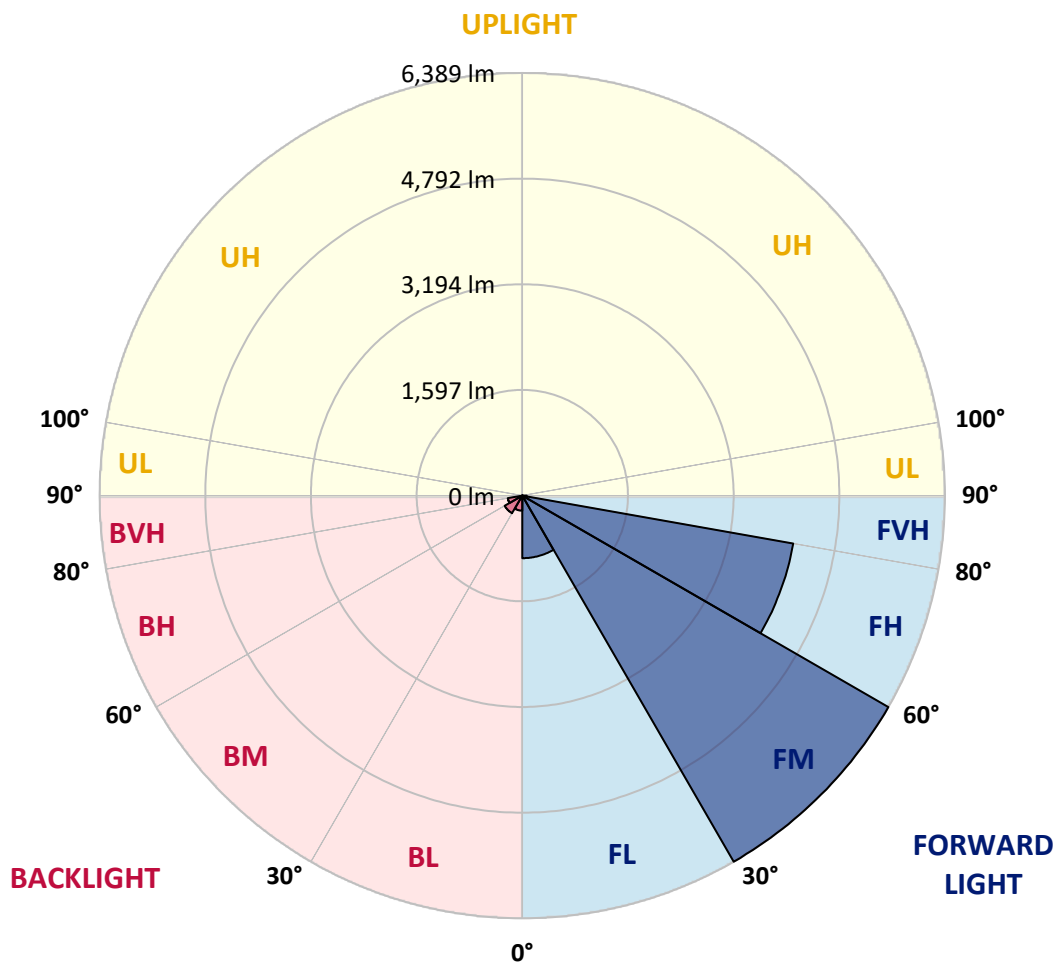
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.4	7.7			
FM (30°-60°)	6388.8	51.9			
FH (60°-80°)	4158.4	33.8			G2/5000
FVH (80°-90°)	63.9	0.5			G1/100
BL (0°-30°)	227.1	1.8	B1/500		
BM (30°-60°)	307.8	2.5	B1/1000		
BH (60°-80°)	222.0	1.8	B1/500		G1/500
BVH (80°-90°)	3.5	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°	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1609.3	1589.2	1595.6	1586.5	1565.6	1534.6	1507.3	1468.1	1429.0	1422.6	1378.9
5°	1821.5	1816.0	1808.7	1782.3	1767.7	1720.4	1663.9	1596.5	1515.5	1500.9	1421.7
7.5°	1966.3	1963.6	1967.2	1953.5	1940.8	1898.0	1837.9	1745.9	1620.2	1612.0	1480.0
10°	2013.6	2020.9	2034.6	2056.5	2076.5	2062.8	2017.3	1902.5	1755.9	1732.2	1546.4
12.5°	1986.3	1994.5	2027.3	2085.6	2150.3	2187.6	2169.4	2085.6	1899.8	1880.7	1621.1
15°	1916.2	1926.2	1972.7	2062.8	2178.5	2284.1	2329.7	2269.6	2067.4	2036.4	1711.3
17.5°	1812.4	1826.9	1893.4	2012.7	2171.2	2353.4	2481.8	2461.7	2245.9	2216.7	1809.6
20°	1734.1	1745.0	1801.4	1938.1	2140.2	2391.6	2626.6	2683.0	2466.3	2416.2	1925.3
22.5°	1786.0	1789.6	1808.7	1890.7	2084.7	2401.6	2754.1	2913.5	2700.3	2655.7	2045.5
25°	2040.1	2003.6	1984.5	1966.3	2072.8	2392.5	2869.7	3153.9	2933.5	2886.1	2164.8
27.5°	2440.8	2424.4	2327.9	2198.5	2173.9	2404.4	2946.2	3381.6	3153.0	3102.0	2281.4
30°	2877.0	2848.8	2789.6	2600.2	2409.8	2488.1	3001.8	3602.9	3412.5	3345.2	2388.0
32.5°	3277.8	3296.0	3207.6	3012.7	2792.3	2666.6	3073.8	3844.2	3710.4	3626.6	2511.8
35°	3745.0	3781.4	3645.7	3459.0	3201.3	2989.1	3214.0	4116.5	4088.3	3982.7	2703.1
37.5°	4219.5	4241.3	4158.4	3896.1	3663.9	3398.9	3478.1	4452.6	4553.7	4463.5	2931.7
40°	4618.4	4648.4	4587.4	4354.3	4106.5	3873.4	3861.5	4818.7	5107.4	5014.5	3272.3
42.5°	4923.5	4946.2	4948.1	4783.2	4560.1	4454.4	4350.6	5285.9	5801.4	5694.0	3667.6
45°	5308.7	5341.5	5322.4	5210.3	5043.7	5024.6	4970.8	5850.6	6632.0	6496.3	4180.3
47.5°	5904.3	5926.2	5878.8	5746.8	5577.4	5607.4	5575.6	6483.6	7479.0	7362.4	4711.3
50°	6317.8	6354.2	6421.6	6474.5	6351.5	6240.4	6145.7	7074.6	8283.2	8178.5	5254.1
52.5°	6313.3	6373.4	6586.5	6852.4	7121.1	7087.4	6815.1	7727.6	9050.9	8921.6	5764.1
55°	5887.9	6004.5	6317.8	6789.6	7533.6	7904.3	7780.5	8483.6	9714.0	9626.5	6355.1
57.5°	5010.0	5081.0	5516.4	6175.7	7303.2	8288.7	8898.8	9508.1	10509.0	10468.1	7273.2
60°	3369.7	3401.6	3961.7	4776.8	6217.6	7905.2	9718.5	10747.7	11488.1	11468.0	8345.1
62.5°	1930.8	1944.4	2350.6	3038.2	4424.4	6699.4	9787.7	12276.8	12662.0	12673.0	9585.5
65°	1039.2	1046.4	1374.3	1783.2	2692.1	4775.0	8801.4	13114.7	13611.0	13632.0	10354.2
66°	897.1	862.5	1093.8	1520.0	2142.1	3800.5	8177.5	13084.6	13793.2	13770.4	10326.9
67.5°	682.1	713.1	873.4	1168.5	1587.4	2702.2	6751.3	12502.7	13654.7	13583.7	9907.0
70°	488.2	500.9	622.0	833.3	1081.0	1482.7	4314.2	10384.3	12410.7	12315.0	8631.1
72.5°	315.1	328.8	440.8	602.9	781.4	809.6	2415.3	7502.7	9568.2	9554.6	6500.0
75°	225.0	237.7	291.4	431.7	587.4	500.9	1163.0	5056.4	6082.8	6041.9	4020.9
77.5°	163.0	169.4	194.9	282.3	419.9	358.8	539.2	2700.3	3028.2	3171.2	1776.9
80°	93.8	99.3	135.7	172.1	284.2	245.0	257.7	1083.8	1117.5	1063.7	555.6
82.5°	46.4	52.8	81.1	117.5	177.6	164.8	118.4	326.0	344.3	335.2	140.3
85°	10.9	13.7	45.5	77.4	86.5	73.8	57.4	95.6	118.4	115.7	53.7
87.5°	0.9	1.8	16.4	13.7	14.6	24.6	20.0	24.6	38.3	35.5	19.1
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°	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1358.8	1341.5	1291.4	1242.3	1201.3	1158.5	1119.3	1096.5	1087.4	1077.4	1082.0
5°	1378.0	1336.1	1235.0	1147.5	1061.9	989.1	930.8	893.4	875.2	872.5	867.9
7.5°	1403.5	1331.5	1174.9	1038.2	926.2	845.2	778.7	724.9	708.6	694.0	682.1
10°	1434.4	1323.3	1100.2	923.5	804.2	702.2	614.8	551.0	518.2	509.1	515.5
12.5°	1467.2	1307.8	1021.9	817.8	680.3	550.1	469.0	437.2	428.0	424.4	425.3
15°	1500.0	1288.7	939.9	715.8	541.9	439.0	401.6	393.4	389.8	388.0	386.2
17.5°	1530.0	1257.7	847.9	616.6	439.0	375.2	361.6	354.3	347.0	344.3	339.7
20°	1565.6	1222.2	765.0	505.5	371.6	339.7	323.3	309.7	298.7	291.4	290.5
22.5°	1599.3	1176.7	678.5	418.9	338.8	305.1	278.7	264.1	251.4	242.3	245.0
25°	1617.5	1121.1	601.1	365.2	308.7	270.5	241.3	223.1	209.5	204.9	204.0
27.5°	1617.5	1052.8	525.5	334.2	281.4	239.5	209.5	192.2	183.1	176.7	177.6
30°	1604.7	977.2	455.4	310.6	257.7	212.2	184.0	168.5	161.2	156.6	155.7
32.5°	1594.7	905.3	395.3	287.8	233.1	188.5	163.9	152.1	144.8	140.3	140.3
35°	1610.2	843.3	348.8	265.0	210.4	170.3	148.5	137.5	130.2	126.6	125.7
37.5°	1651.2	786.9	313.3	240.4	189.4	154.8	137.5	124.8	117.5	112.9	111.1
40°	1752.3	755.0	286.9	217.7	169.4	142.1	124.8	112.9	103.8	99.3	98.4
42.5°	1914.4	755.9	261.4	196.7	153.9	131.1	113.8	100.2	90.2	85.6	84.7
45°	2158.5	790.5	241.3	176.7	140.3	119.3	102.0	87.4	78.3	73.8	73.8
47.5°	2450.8	857.9	224.0	159.4	127.5	108.4	90.2	75.6	66.5	62.8	62.8
50°	2767.7	945.3	206.7	141.2	116.6	96.5	77.4	65.6	58.3	55.6	55.6
52.5°	3091.1	1051.0	189.4	126.6	104.7	83.8	66.5	58.3	51.9	50.1	49.2
55°	3515.5	1185.8	171.2	111.1	92.0	71.9	59.2	51.0	43.7	41.0	40.1
57.5°	4168.5	1388.9	151.2	97.4	75.6	60.1	51.0	42.8	34.6	30.1	29.1
60°	4956.3	1636.6	130.2	85.6	61.0	49.2	41.0	32.8	25.5	20.0	19.1
62.5°	5694.0	1794.2	110.2	71.9	48.3	37.3	29.1	24.6	18.2	12.8	11.8
65°	6020.0	1741.3	91.1	58.3	38.3	26.4	19.1	17.3	10.9	5.5	4.6
66°	5911.6	1663.0	83.8	52.8	34.6	22.8	16.4	14.6	8.2	2.7	2.7
67.5°	5591.9	1478.1	72.9	45.5	30.1	18.2	12.8	10.9	4.6	0.9	0.0
70°	4791.4	1195.8	57.4	33.7	21.9	12.8	7.3	5.5	2.7	0.0	0.0
72.5°	3680.3	890.7	45.5	25.5	15.5	7.3	3.6	1.8	2.7	0.0	0.0
75°	2255.0	509.1	35.5	19.1	10.0	4.6	2.7	0.0	2.7	0.9	0.0
77.5°	1000.9	228.6	23.7	12.8	7.3	3.6	1.8	0.0	1.8	0.9	0.0
80°	253.2	74.7	13.7	9.1	5.5	2.7	0.9	0.0	1.8	1.8	0.9
82.5°	69.2	27.3	10.0	7.3	4.6	2.7	0.9	0.0	1.8	1.8	1.8
85°	27.3	12.8	9.1	7.3	5.5	2.7	0.9	0.0	1.8	1.8	1.8
87.5°	12.8	9.1	9.1	8.2	6.4	2.7	0.9	0.0	1.8	0.9	1.8
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)