

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: P453024

Luminaire Tested: **GALN-SA4A-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12096 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

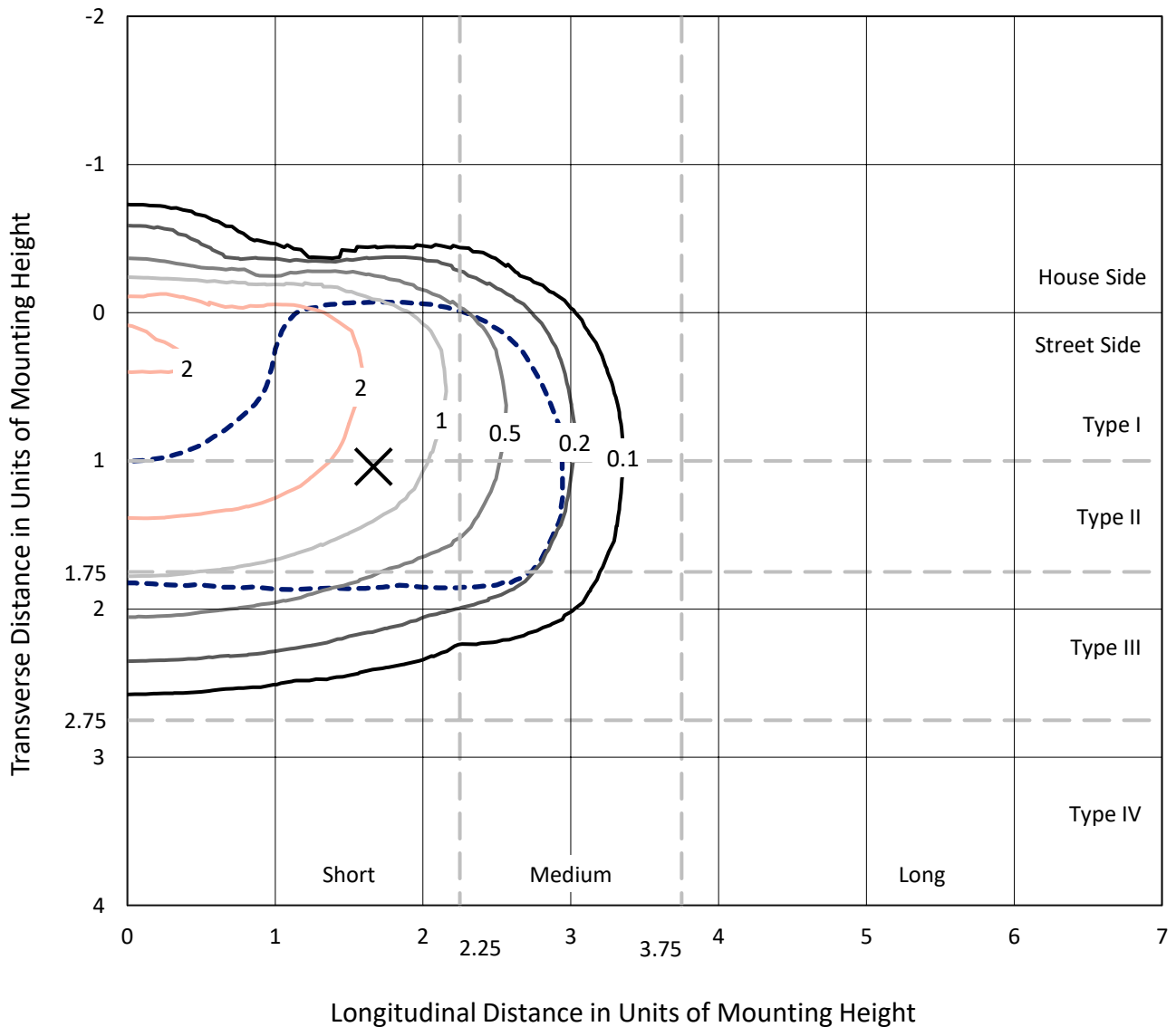
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

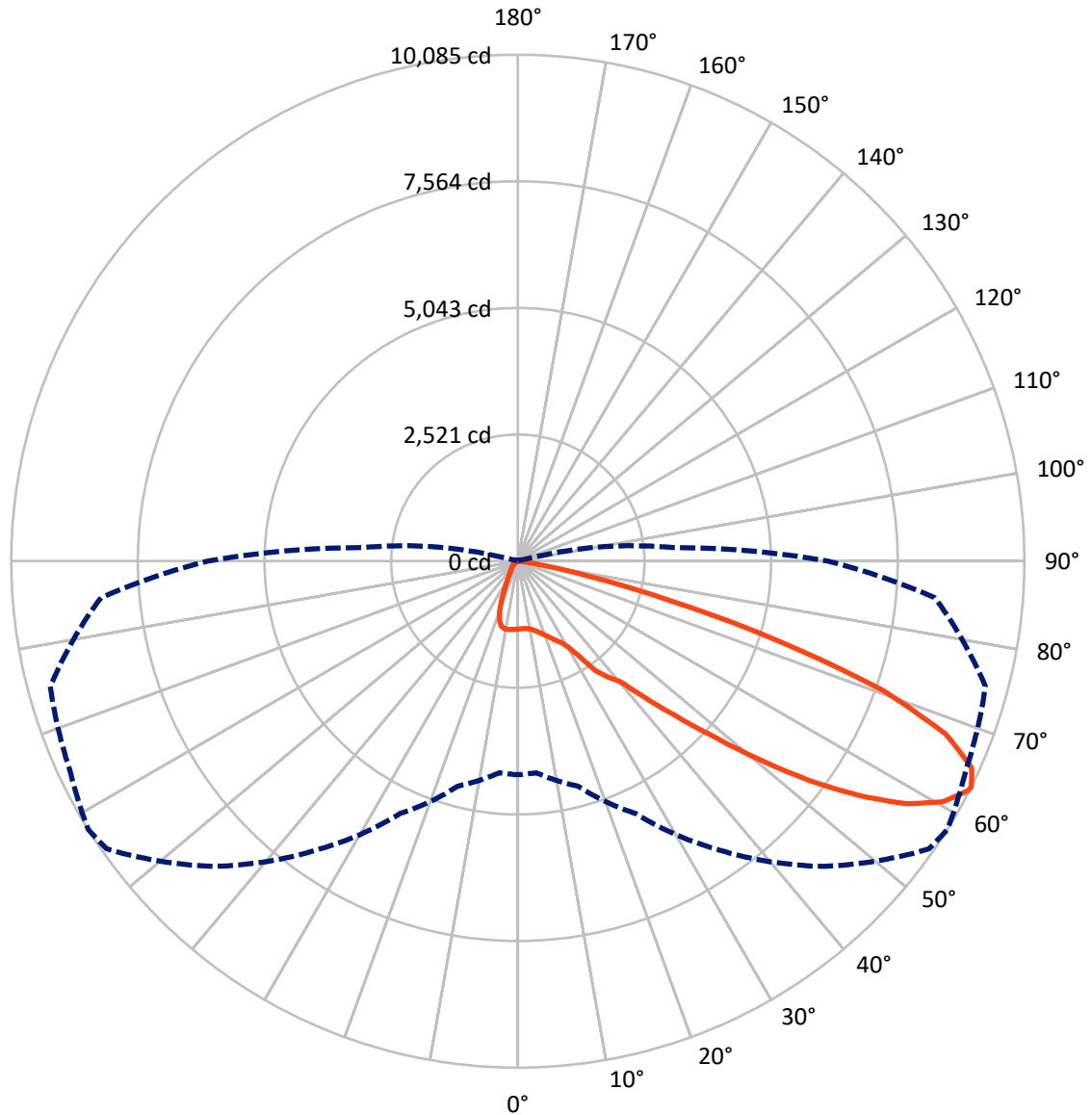
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1252.5	0.0	1252.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	10843.5	0.0	10843.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	12096.0	0.0	12096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	1.0
10°-20°	345.3	2.9
20°-30°	599.2	5.0
30°-40°	1101.2	9.1
40°-50°	2073.0	17.1
50°-60°	3545.6	29.3
60°-70°	3394.9	28.1
70°-80°	865.7	7.2
80°-90°	44.3	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°	12096.0	100.0
0°-180°	12096.0	100.0

**Coefficient of Utilization**



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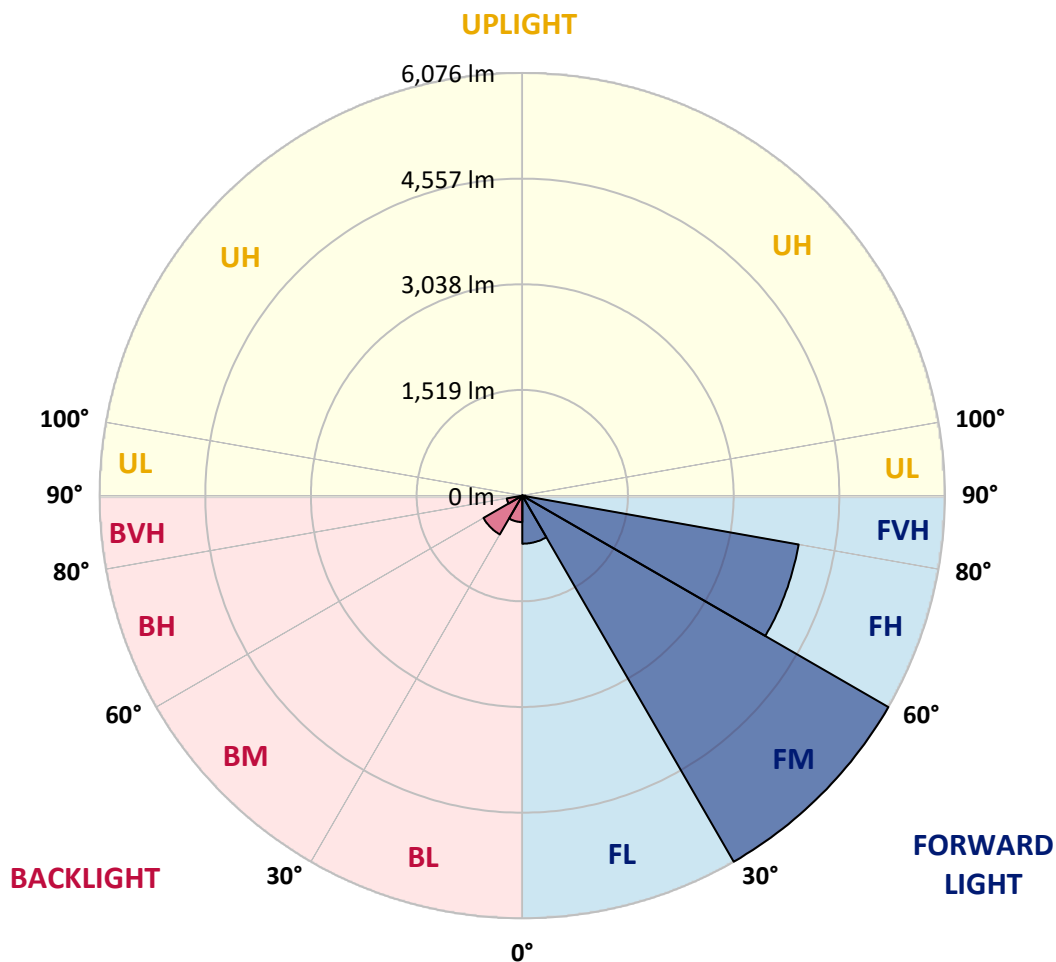
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.5	5.7			
FM	(30°-60°)	6075.6	50.2			
FH	(60°-80°)	4033.9	33.3			G2/5000
FVH	(80°-90°)	42.6	0.4			G1/100
BL	(0°-30°)	379.8	3.1	B1/500		
BM	(30°-60°)	644.2	5.3	B1/1000		
BH	(60°-80°)	226.7	1.9	B1/500		G1/500
BVH	(80°-90°)	1.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1320.5	1325.1	1329.6	1331.4	1337.8	1344.2	1348.7	1347.8	1355.1	1358.7	1358.7
5°	1267.7	1267.7	1279.5	1290.4	1308.7	1326.9	1344.2	1347.8	1361.5	1374.2	1378.8
7.5°	1223.1	1225.8	1234.9	1254.9	1279.5	1311.4	1346.0	1354.2	1377.9	1406.1	1417.9
10°	1202.1	1203.9	1215.8	1236.7	1267.7	1311.4	1359.7	1375.1	1411.6	1456.2	1472.6
12.5°	1197.6	1200.3	1212.1	1235.8	1271.3	1324.1	1389.7	1406.1	1458.9	1516.3	1540.9
15°	1205.8	1207.6	1219.4	1244.9	1284.1	1346.9	1429.8	1452.5	1515.4	1581.9	1613.7
17.5°	1234.9	1233.1	1241.3	1262.2	1305.9	1375.1	1478.0	1505.4	1579.1	1670.2	1691.1
20°	1358.7	1346.9	1339.6	1321.4	1338.7	1415.2	1536.3	1576.4	1667.5	1760.4	1774.9
22.5°	1625.6	1599.2	1547.3	1476.2	1421.6	1469.9	1606.5	1652.9	1770.4	1861.4	1861.4
25°	1965.3	1931.6	1879.7	1724.8	1591.0	1560.0	1685.7	1744.0	1882.4	1974.4	1944.3
27.5°	2390.6	2364.1	2263.1	2082.7	1877.8	1717.6	1777.7	1831.4	1981.7	2092.8	2029.9
30°	2736.6	2723.9	2641.0	2479.8	2254.0	2019.9	1948.9	1984.4	2113.7	2242.1	2177.5
32.5°	3029.0	3029.0	2944.3	2794.0	2582.7	2375.1	2239.4	2264.9	2388.7	2537.2	2417.0
35°	3350.4	3339.5	3271.2	3128.2	2891.4	2708.4	2652.8	2687.4	2799.5	2909.7	2613.7
37.5°	3688.3	3684.6	3613.6	3475.2	3282.1	3051.7	2921.5	2930.6	2988.0	3055.4	2844.1
40°	4055.3	4060.8	3967.9	3882.3	3700.1	3464.3	3214.7	3157.4	3211.1	3401.4	3269.4
42.5°	4488.8	4476.0	4436.0	4319.4	4172.8	4031.6	3732.0	3711.1	3758.4	3962.4	3819.4
45°	4992.4	5010.6	4941.4	4876.7	4778.4	4660.9	4410.5	4374.0	4425.9	4742.9	4539.8
47.5°	5496.9	5479.6	5524.2	5512.4	5565.2	5477.8	5256.5	5181.8	5306.6	5607.1	5308.4
50°	5881.2	5900.4	5993.2	6128.9	6355.7	6404.9	6192.7	6167.2	6222.7	6415.8	5996.0
52.5°	6130.8	6194.5	6340.2	6689.0	7097.9	7415.7	7254.5	7240.9	7218.1	7270.0	6653.5
55°	6293.8	6358.4	6548.8	7062.4	7766.4	8282.7	8290.9	8232.6	8082.4	8045.0	7268.2
57.5°	6193.6	6206.3	6477.7	7164.4	8137.0	8901.1	9168.8	9110.5	8832.8	8691.6	7811.0
60°	5567.0	5593.4	5971.4	6778.3	7975.8	9103.2	9750.7	9724.3	9420.2	9260.8	8233.5
62.5°	4456.9	4533.4	4922.3	5822.0	7226.3	8762.6	9986.6	10061.3	9824.5	9605.0	8366.5
63°	4252.9	4228.3	4639.0	5543.4	7027.8	8594.2	9990.3	10085.0	9842.7	9637.8	8330.1
65°	3148.3	3222.0	3488.8	4371.3	5848.4	7810.1	9765.3	9932.9	9775.3	9493.0	7926.6
67.5°	1767.6	1764.0	2059.1	2860.5	4093.5	6126.2	8830.0	9184.3	9151.5	8518.6	6570.6
70°	865.2	878.8	999.9	1482.6	2374.2	4226.5	7337.4	7719.9	7731.7	6690.8	4543.4
72.5°	391.6	398.0	484.5	722.2	1220.3	2250.3	5056.1	5421.3	5353.9	4263.8	2508.9
75°	206.7	220.4	266.8	363.4	588.3	928.0	2750.3	3103.6	2962.5	1948.0	923.4
77.5°	153.0	157.5	181.2	231.3	315.1	361.5	1186.6	1411.6	1322.3	704.9	306.0
80°	112.0	115.7	134.8	163.9	198.5	184.0	447.1	512.7	459.9	239.5	93.8
82.5°	68.3	69.2	98.4	122.0	124.8	102.9	147.5	158.5	165.7	134.8	51.0
85°	24.6	31.0	66.5	88.3	73.8	51.9	61.9	68.3	74.7	85.6	30.1
87.5°	2.7	3.6	31.9	42.8	20.9	19.1	22.8	25.5	27.3	31.9	14.6
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°	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2	1354.2
2.5°	1362.4	1366.0	1363.3	1358.7	1357.8	1355.1	1349.6	1349.6	1349.6	1351.5	1349.6
5°	1382.4	1385.2	1378.8	1369.7	1359.7	1346.9	1333.2	1325.1	1324.1	1322.3	1317.8
7.5°	1420.7	1424.3	1409.7	1387.9	1360.6	1329.6	1300.5	1273.1	1260.4	1250.4	1250.4
10°	1476.2	1479.9	1450.7	1411.6	1356.9	1294.1	1224.9	1162.0	1112.9	1090.1	1084.6
12.5°	1542.7	1544.5	1496.3	1428.0	1337.8	1216.7	1069.1	931.6	836.0	792.3	787.7
15°	1615.6	1602.8	1539.1	1434.3	1283.2	1057.3	802.3	633.8	534.6	505.4	516.4
17.5°	1689.3	1665.6	1571.8	1424.3	1160.2	802.3	539.1	432.6	401.6	393.4	393.4
20°	1758.5	1725.8	1595.5	1380.6	947.1	552.8	399.8	374.3	368.8	363.4	364.3
22.5°	1827.8	1777.7	1616.5	1283.2	705.8	395.2	357.9	349.7	342.4	335.1	334.2
25°	1895.1	1825.9	1624.7	1102.8	480.8	339.7	326.9	316.0	301.4	293.2	291.4
27.5°	1965.3	1884.2	1619.2	875.2	350.6	304.2	291.4	275.9	258.6	244.1	244.1
30°	2100.0	1995.3	1600.1	629.3	295.1	267.7	251.4	226.8	207.6	193.1	192.2
32.5°	2284.0	2140.1	1534.5	442.6	262.3	235.9	211.3	184.0	163.9	153.0	153.0
35°	2447.9	2285.8	1411.6	326.0	235.9	204.9	174.9	148.4	133.0	125.7	122.9
37.5°	2697.5	2498.9	1242.2	265.0	210.4	177.6	146.6	122.0	109.3	103.8	103.8
40°	3071.8	2759.4	1034.5	232.2	185.8	151.2	122.0	102.9	92.9	86.5	86.5
42.5°	3536.2	3078.1	824.2	208.5	163.0	130.2	102.0	87.4	78.3	73.8	72.9
45°	4120.9	3414.2	634.7	186.7	144.8	111.1	86.5	73.8	64.7	61.9	62.8
47.5°	4731.0	3710.1	491.8	167.6	125.7	93.8	73.8	63.7	57.4	53.7	53.7
50°	5251.9	3914.1	373.4	145.7	111.1	79.2	64.7	57.4	51.9	50.1	49.2
52.5°	5687.3	3973.3	286.0	126.6	97.4	68.3	57.4	51.9	47.4	44.6	44.6
55°	6057.9	3921.4	224.0	106.6	82.0	59.2	51.0	46.4	41.0	38.2	37.3
57.5°	6274.6	3754.8	171.2	88.3	66.5	49.2	44.6	39.2	32.8	28.2	28.2
60°	6383.9	3512.5	131.1	72.9	51.0	39.2	36.4	29.1	22.8	19.1	18.2
62.5°	6252.8	3191.1	99.3	57.4	38.2	29.1	24.6	20.9	14.6	10.9	10.9
63°	6171.7	3098.2	95.6	54.6	35.5	27.3	22.8	19.1	12.7	10.0	9.1
65°	5626.2	2692.9	78.3	43.7	28.2	19.1	15.5	13.7	9.1	4.6	3.6
67.5°	4467.8	2060.0	61.9	32.8	20.0	13.7	9.1	8.2	2.7	0.0	0.0
70°	3020.8	1330.5	48.3	23.7	13.7	8.2	4.6	3.6	0.9	0.0	0.0
72.5°	1575.5	682.1	37.3	17.3	8.2	5.5	2.7	0.9	0.0	0.0	0.0
75°	557.3	232.2	27.3	10.9	5.5	2.7	0.9	0.0	0.0	0.0	0.0
77.5°	168.5	86.5	17.3	8.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0
80°	59.2	31.9	10.0	5.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	15.5	6.4	4.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.4	10.0	5.5	4.6	2.7	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	7.3	5.5	4.6	3.6	1.8	0.9	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)