

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: P452328

Luminaire Tested: **GALN-SA3B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452328
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-SA3B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 11358 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

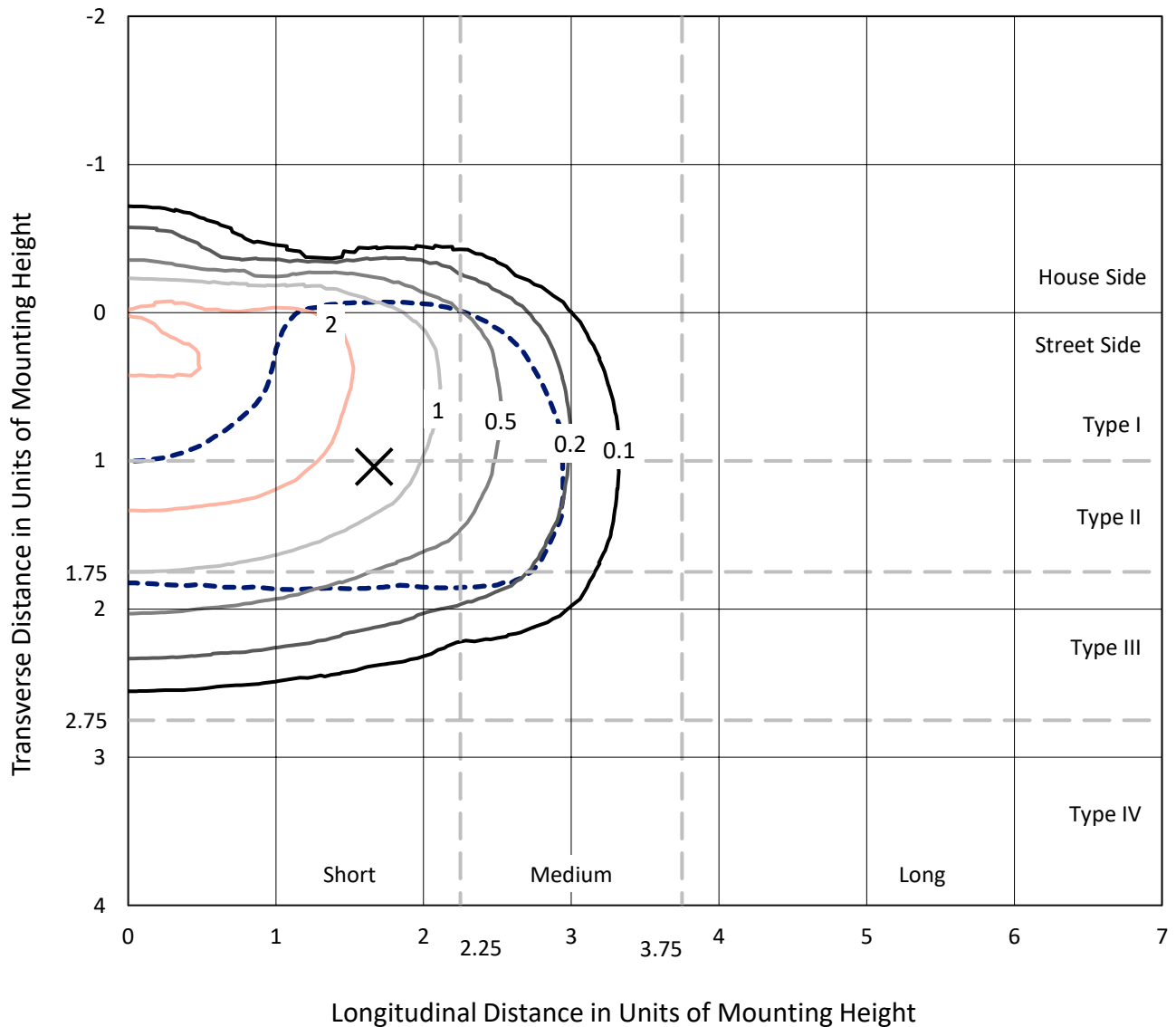
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

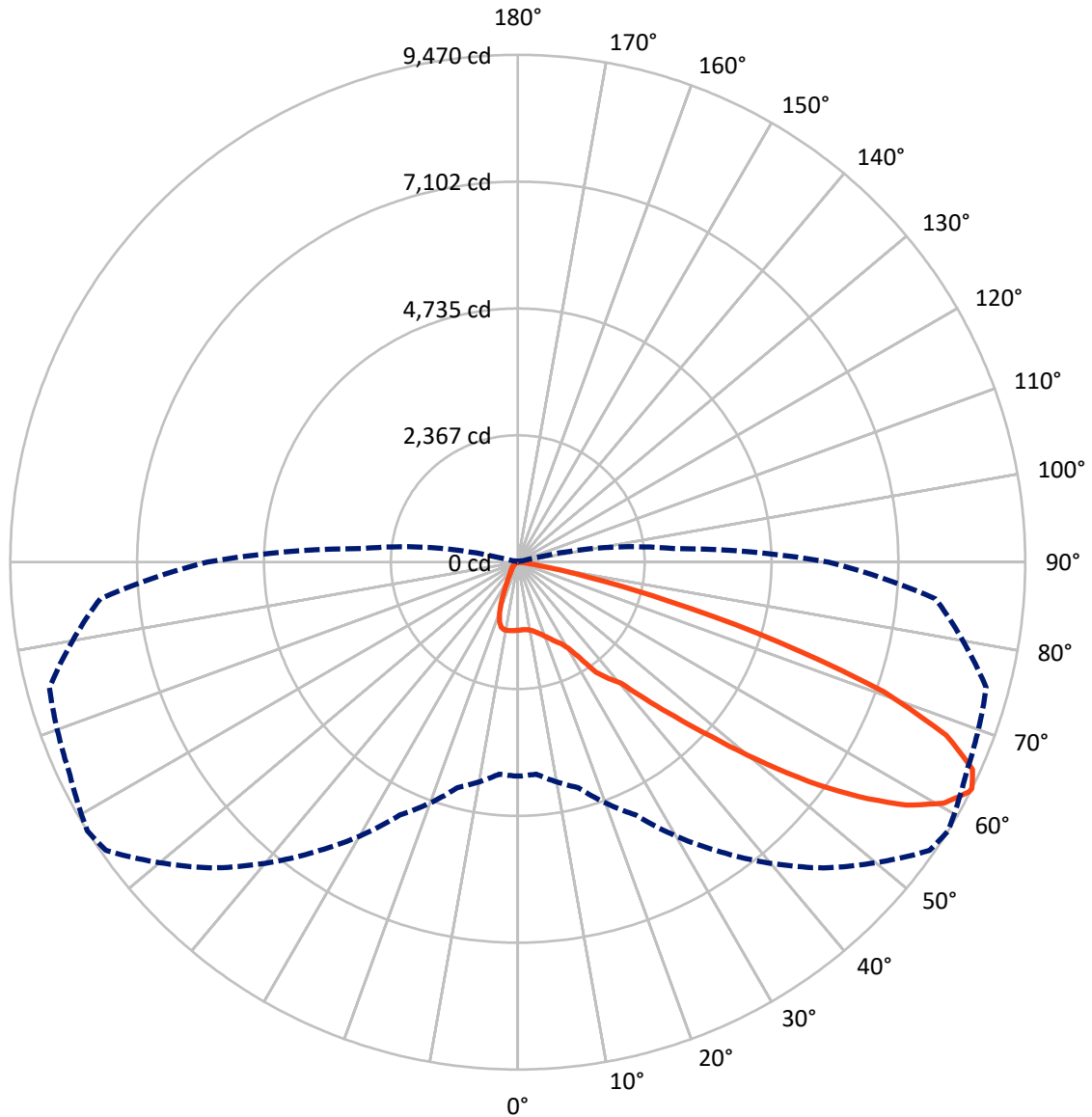
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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
House Side	Lumens	1176.1	0.0	1176.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10182.0	0.0	10182.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	11358.0	0.0	11358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.0
10°-20°	324.2	2.9
20°-30°	562.7	5.0
30°-40°	1034.0	9.1
40°-50°	1946.5	17.1
50°-60°	3329.3	29.3
60°-70°	3187.8	28.1
70°-80°	812.9	7.2
80°-90°	41.6	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°	11358.0	100.0
0°-180°	11358.0	100.0

Coefficient of Utilization



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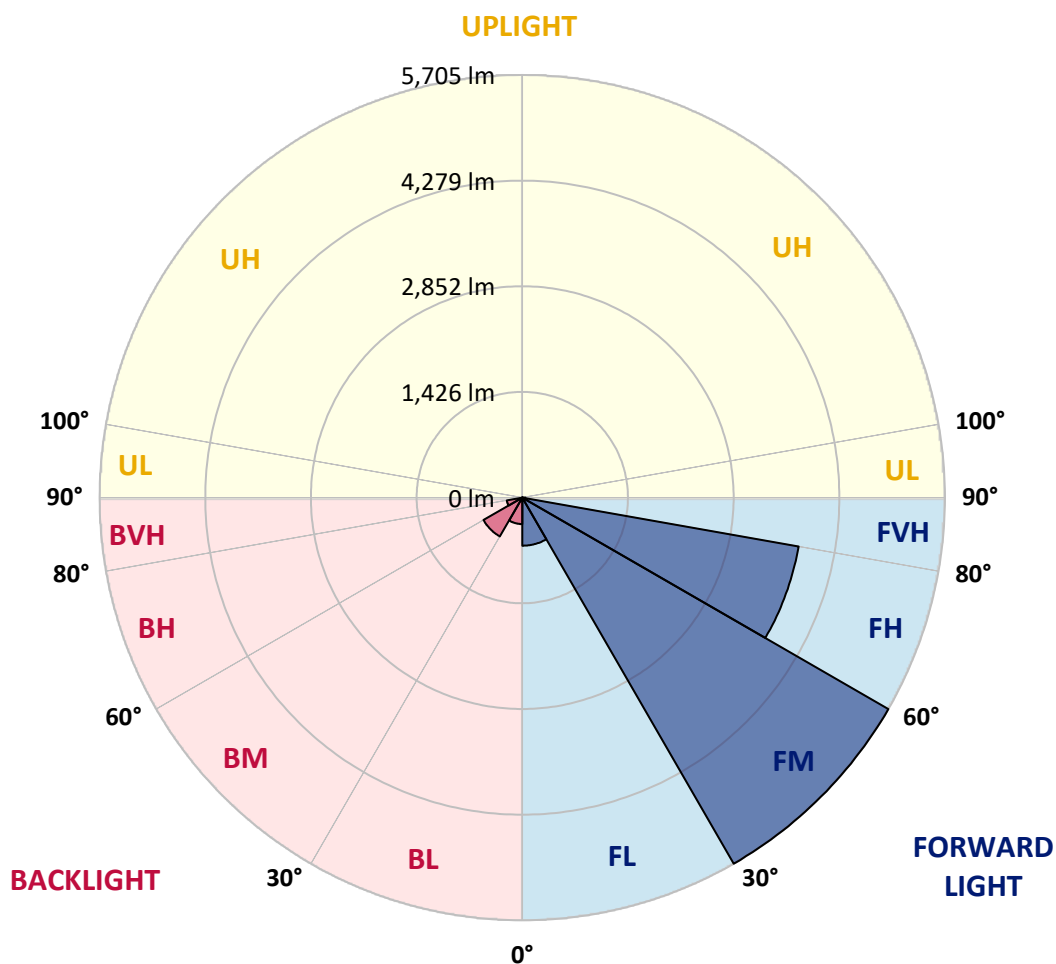
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.3	5.7			
FM (30°-60°)	5704.9	50.2			
FH (60°-80°)	3787.8	33.3			G2/5000
FVH (80°-90°)	40.0	0.4			G1/100
BL (0°-30°)	356.7	3.1	B1/500		
BM (30°-60°)	604.9	5.3	B1/1000		
BH (60°-80°)	212.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1239.9	1244.2	1248.5	1250.2	1256.2	1262.2	1266.4	1265.6	1272.4	1275.8	1275.8
5°	1190.3	1190.3	1201.5	1211.7	1228.8	1245.9	1262.2	1265.6	1278.4	1290.4	1294.7
7.5°	1148.4	1151.0	1159.6	1178.4	1201.5	1231.4	1263.9	1271.6	1293.8	1320.3	1331.4
10°	1128.8	1130.5	1141.6	1161.3	1190.3	1231.4	1276.7	1291.2	1325.4	1367.3	1382.7
12.5°	1124.5	1127.1	1138.2	1160.4	1193.8	1243.4	1304.9	1320.3	1369.9	1423.8	1446.9
15°	1132.2	1133.9	1145.0	1169.0	1205.7	1264.7	1342.5	1363.9	1422.9	1485.4	1515.3
17.5°	1159.6	1157.8	1165.5	1185.2	1226.3	1291.2	1387.9	1413.5	1482.8	1568.3	1588.0
20°	1275.8	1264.7	1257.9	1240.8	1257.0	1328.9	1442.6	1480.2	1565.7	1653.0	1666.6
22.5°	1526.4	1501.6	1452.9	1386.2	1334.9	1380.2	1508.4	1552.1	1662.4	1747.9	1747.9
25°	1845.4	1813.7	1765.0	1619.6	1493.9	1464.8	1582.8	1637.6	1767.5	1853.9	1825.7
27.5°	2244.7	2219.9	2125.0	1955.7	1763.3	1612.8	1669.2	1719.7	1860.8	1965.1	1906.1
30°	2569.7	2557.7	2479.9	2328.5	2116.4	1896.7	1830.0	1863.3	1984.7	2105.3	2044.6
32.5°	2844.1	2844.1	2764.6	2623.5	2425.1	2230.2	2102.8	2126.7	2243.0	2382.4	2269.5
35°	3146.0	3135.7	3071.6	2937.4	2715.0	2543.1	2491.0	2523.5	2628.7	2732.1	2454.2
37.5°	3463.3	3459.8	3393.1	3263.2	3081.9	2865.5	2743.2	2751.8	2805.7	2868.9	2670.6
40°	3807.9	3813.0	3725.8	3645.4	3474.4	3252.9	3018.6	2964.7	3015.2	3193.9	3069.9
42.5°	4214.9	4202.9	4165.3	4055.9	3918.2	3785.6	3504.3	3484.6	3529.1	3720.7	3586.4
45°	4687.8	4704.9	4639.9	4579.2	4486.8	4376.5	4141.4	4107.2	4155.9	4453.5	4262.8
47.5°	5161.5	5145.3	5187.2	5176.1	5225.7	5143.6	4935.8	4865.7	4982.8	5265.0	4984.5
50°	5522.4	5540.4	5627.6	5755.0	5967.9	6014.1	5814.9	5790.9	5843.1	6024.4	5630.1
52.5°	5756.7	5816.6	5953.4	6280.9	6664.9	6963.3	6811.9	6799.1	6777.7	6826.5	6247.5
55°	5909.8	5970.5	6149.2	6631.5	7292.5	7777.4	7785.1	7730.3	7589.2	7554.2	6824.8
57.5°	5815.7	5827.7	6082.5	6727.3	7640.5	8358.0	8609.4	8554.7	8293.9	8161.3	7334.4
60°	5227.4	5252.2	5607.1	6364.7	7489.2	8547.8	9155.8	9131.0	8845.4	8695.8	7731.2
62.5°	4185.0	4256.8	4622.0	5466.8	6785.4	8228.0	9377.3	9447.4	9225.1	9019.0	7856.0
63°	3993.4	3970.3	4356.0	5205.2	6599.0	8069.8	9380.7	9469.7	9242.2	9049.8	7821.8
65°	2956.2	3025.4	3276.0	4104.6	5491.6	7333.6	9169.5	9326.9	9178.9	8913.8	7443.0
67.5°	1659.8	1656.4	1933.4	2686.0	3843.8	5752.4	8291.3	8623.9	8593.2	7998.8	6169.7
70°	812.4	825.2	938.9	1392.1	2229.3	3968.6	6889.7	7248.9	7260.0	6282.6	4266.2
72.5°	367.7	373.7	454.9	678.1	1145.9	2113.0	4747.7	5090.6	5027.3	4003.7	2355.9
75°	194.1	206.9	250.6	341.2	552.4	871.4	2582.5	2914.3	2781.7	1829.1	867.1
77.5°	143.7	147.9	170.2	217.2	295.9	339.5	1114.2	1325.4	1241.6	661.9	287.3
80°	105.2	108.6	126.6	153.9	186.4	172.7	419.9	481.4	431.8	224.9	88.1
82.5°	64.1	65.0	92.4	114.6	117.2	96.6	138.5	148.8	155.6	126.6	47.9
85°	23.1	29.1	62.4	82.9	69.3	48.7	58.1	64.1	70.1	80.4	28.2
87.5°	2.6	3.4	29.9	40.2	19.7	18.0	21.4	23.9	25.7	29.9	13.7
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°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1279.3	1282.7	1280.1	1275.8	1275.0	1272.4	1267.3	1267.3	1267.3	1269.0	1267.3
5°	1298.1	1300.6	1294.7	1286.1	1276.7	1264.7	1251.9	1244.2	1243.4	1241.6	1237.4
7.5°	1334.0	1337.4	1323.7	1303.2	1277.6	1248.5	1221.1	1195.5	1183.5	1174.1	1174.1
10°	1386.2	1389.6	1362.2	1325.4	1274.1	1215.1	1150.1	1091.1	1045.0	1023.6	1018.5
12.5°	1448.6	1450.3	1405.0	1340.8	1256.2	1142.4	1003.9	874.8	785.0	744.0	739.7
15°	1517.0	1505.0	1445.2	1346.8	1204.9	992.8	753.4	595.2	502.0	474.6	484.9
17.5°	1586.3	1564.0	1475.9	1337.4	1089.4	753.4	506.2	406.2	377.1	369.4	369.4
20°	1651.2	1620.5	1498.2	1296.4	889.3	519.1	375.4	351.5	346.3	341.2	342.1
22.5°	1716.2	1669.2	1517.8	1204.9	662.7	371.1	336.1	328.4	321.5	314.7	313.8
25°	1779.5	1714.5	1525.5	1035.6	451.5	319.0	307.0	296.7	283.0	275.4	273.6
27.5°	1845.4	1769.3	1520.4	821.8	329.2	285.6	273.6	259.1	242.9	229.2	229.2
30°	1971.9	1873.6	1502.5	590.9	277.1	251.4	236.0	212.9	195.0	181.3	180.4
32.5°	2144.7	2009.5	1440.9	415.6	246.3	221.5	198.4	172.7	153.9	143.7	143.7
35°	2298.6	2146.4	1325.4	306.1	221.5	192.4	164.2	139.4	124.8	118.0	115.4
37.5°	2532.9	2346.5	1166.4	248.8	197.5	166.7	137.7	114.6	102.6	97.5	97.5
40°	2884.3	2591.0	971.4	218.1	174.4	142.0	114.6	96.6	87.2	81.2	81.2
42.5°	3320.5	2890.3	773.9	195.8	153.1	122.3	95.8	82.1	73.5	69.3	68.4
45°	3869.4	3205.9	596.0	175.3	136.0	104.3	81.2	69.3	60.7	58.1	59.0
47.5°	4442.4	3483.8	461.8	157.3	118.0	88.1	69.3	59.9	53.9	50.5	50.5
50°	4931.5	3675.3	350.6	136.8	104.3	74.4	60.7	53.9	48.7	47.0	46.2
52.5°	5340.3	3730.9	268.5	118.9	91.5	64.1	53.9	48.7	44.5	41.9	41.9
55°	5688.3	3682.2	210.4	100.0	77.0	55.6	47.9	43.6	38.5	35.9	35.1
57.5°	5891.8	3525.7	160.8	82.9	62.4	46.2	41.9	36.8	30.8	26.5	26.5
60°	5994.4	3298.2	123.1	68.4	47.9	36.8	34.2	27.4	21.4	18.0	17.1
62.5°	5871.3	2996.4	93.2	53.9	35.9	27.4	23.1	19.7	13.7	10.3	10.3
63°	5795.2	2909.1	89.8	51.3	33.3	25.7	21.4	18.0	12.0	9.4	8.6
65°	5283.0	2528.6	73.5	41.0	26.5	18.0	14.5	12.8	8.6	4.3	3.4
67.5°	4195.2	1934.3	58.1	30.8	18.8	12.8	8.6	7.7	2.6	0.0	0.0
70°	2836.5	1249.3	45.3	22.2	12.8	7.7	4.3	3.4	0.9	0.0	0.0
72.5°	1479.4	640.5	35.1	16.2	7.7	5.1	2.6	0.9	0.0	0.0	0.0
75°	523.3	218.1	25.7	10.3	5.1	2.6	0.9	0.0	0.0	0.0	0.0
77.5°	158.2	81.2	16.2	7.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	55.6	29.9	9.4	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	14.5	6.0	4.3	2.6	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.4	9.4	5.1	4.3	2.6	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	6.8	5.1	4.3	3.4	1.7	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)