

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: P451773

Luminaire Tested: **GALN-SA2C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451773
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-SA2C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8399 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

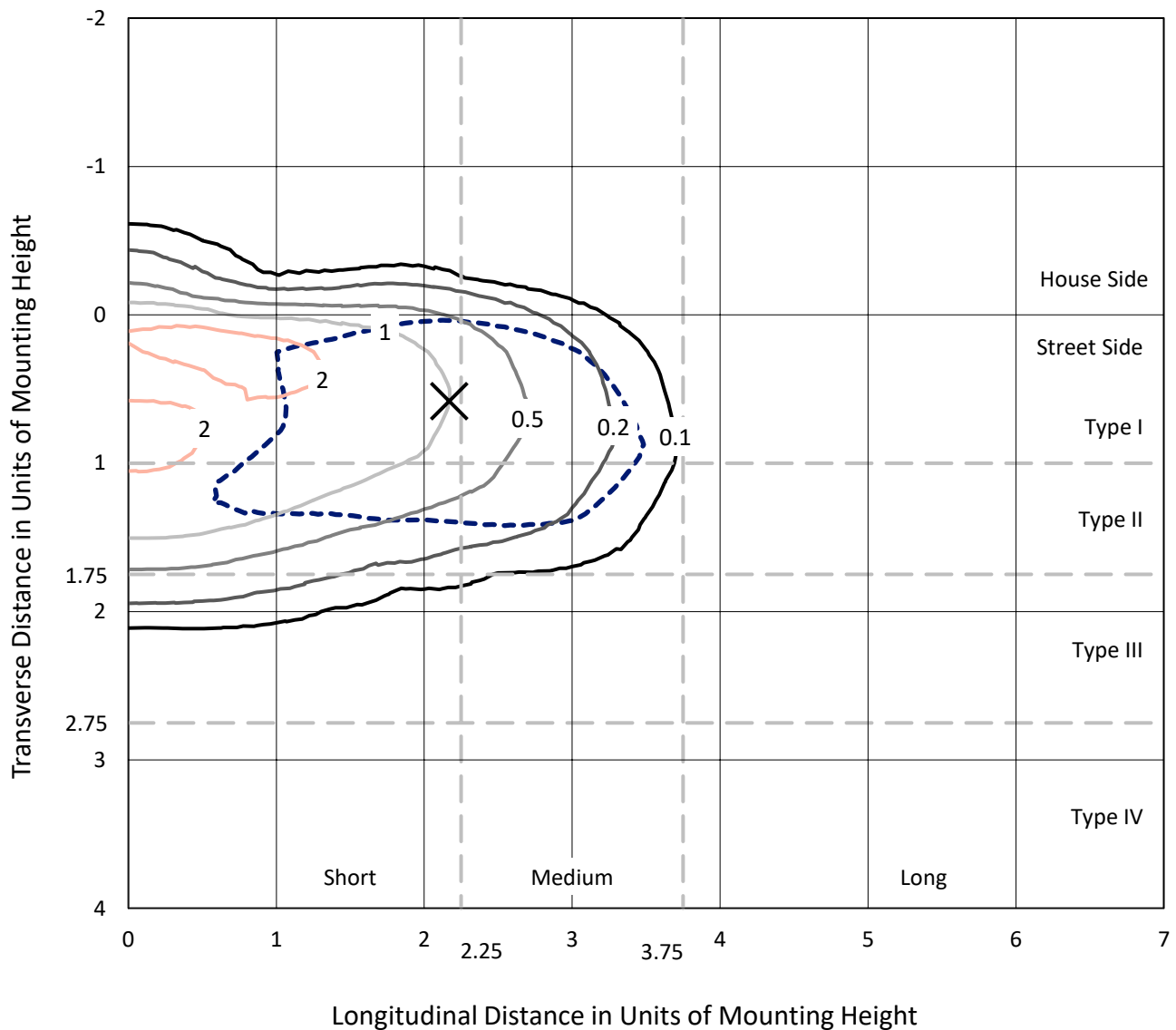


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

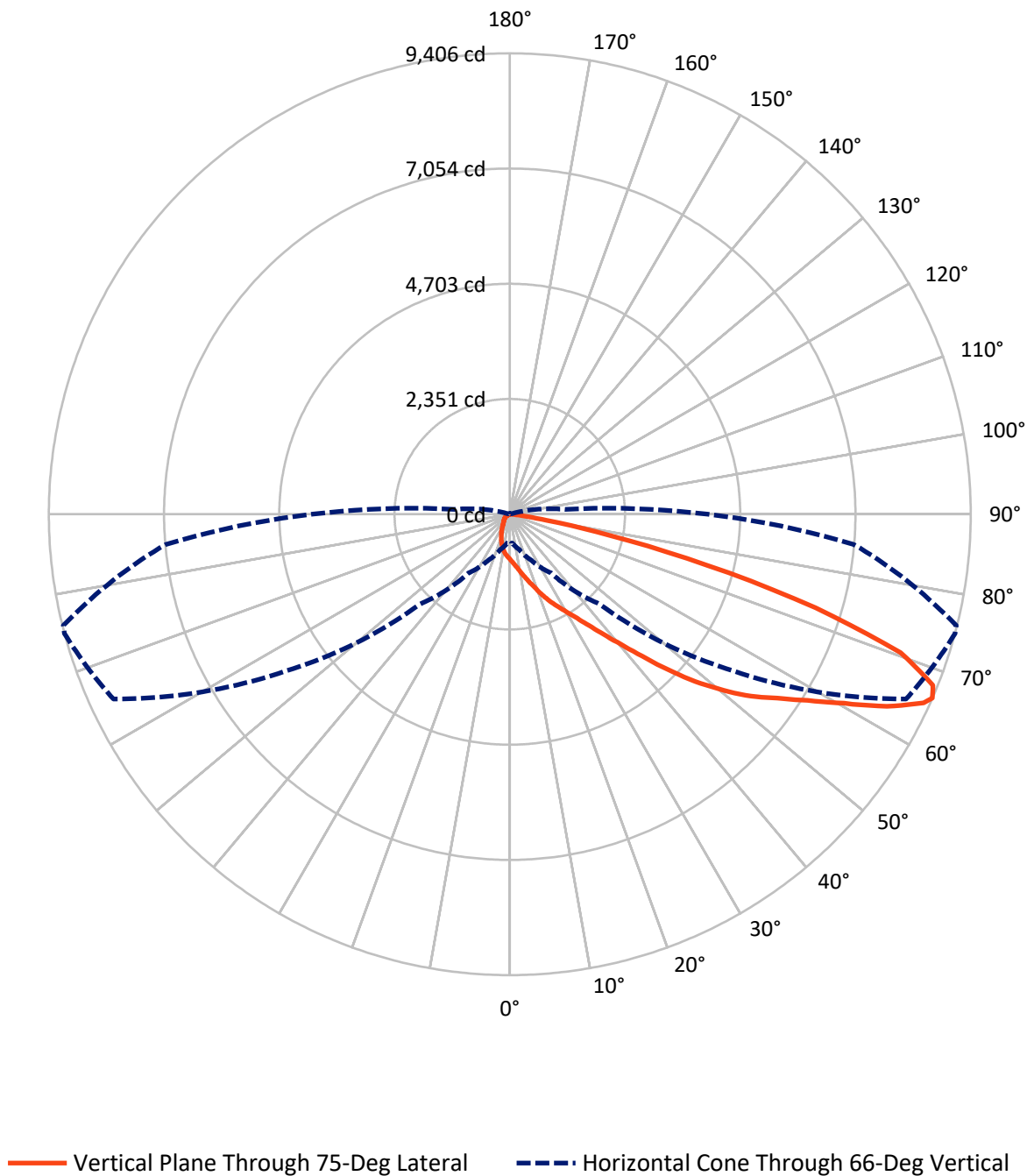


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.5	0.0	518.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7880.5	0.0	7880.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	8399.0	0.0	8399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.1
10°-20°	260.7	3.1
20°-30°	450.2	5.4
30°-40°	812.1	9.7
40°-50°	1467.1	17.5
50°-60°	2287.2	27.2
60°-70°	2172.8	25.9
70°-80°	814.3	9.7
80°-90°	45.9	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°	8399.0	100.0
0°-180°	8399.0	100.0

Coefficient of Utilization



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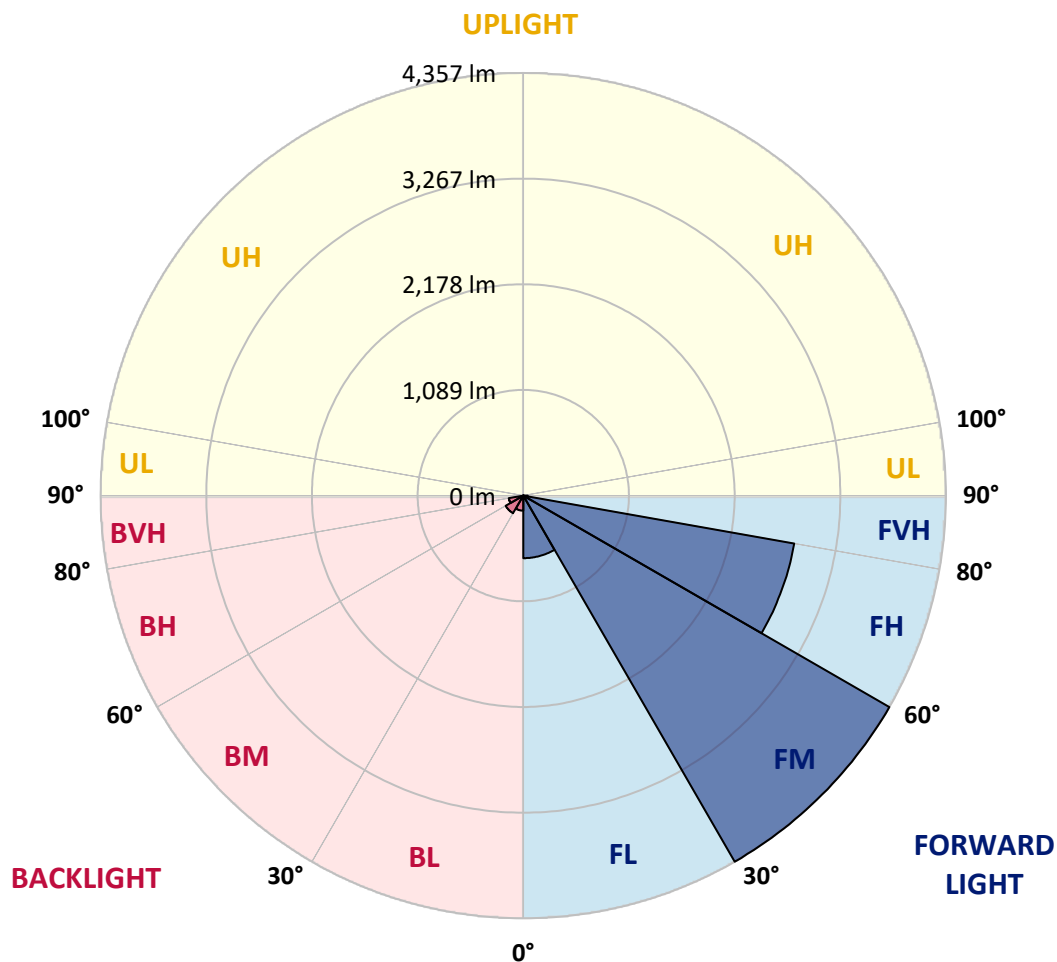
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.7	7.7			
FM	(30°-60°)	4356.6	51.9			
FH	(60°-80°)	2835.7	33.8			G2/5000
FVH	(80°-90°)	43.6	0.5			G1/100
BL	(0°-30°)	154.9	1.8	B1/500		
BM	(30°-60°)	209.9	2.5	B0/220		
BH	(60°-80°)	151.4	1.8	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	1097.4	1083.7	1088.1	1081.8	1067.6	1046.4	1027.8	1001.1	974.4	970.1	940.2
5°	1242.1	1238.3	1233.4	1215.4	1205.4	1173.1	1134.6	1088.7	1033.4	1023.5	969.4
7.5°	1340.8	1339.0	1341.4	1332.1	1323.4	1294.2	1253.3	1190.5	1104.8	1099.2	1009.2
10°	1373.1	1378.1	1387.4	1402.3	1416.0	1406.6	1375.6	1297.3	1197.4	1181.2	1054.5
12.5°	1354.5	1360.1	1382.4	1422.2	1466.3	1491.7	1479.3	1422.2	1295.5	1282.4	1105.4
15°	1306.7	1313.5	1345.2	1406.6	1485.5	1557.6	1588.6	1547.6	1409.8	1388.6	1166.9
17.5°	1235.9	1245.8	1291.1	1372.5	1480.6	1604.8	1692.3	1678.7	1531.5	1511.6	1234.0
20°	1182.5	1189.9	1228.4	1321.6	1459.4	1630.8	1791.1	1829.6	1681.8	1647.6	1312.9
22.5°	1217.9	1220.3	1233.4	1289.3	1421.6	1637.7	1878.0	1986.7	1841.4	1810.9	1394.8
25°	1391.1	1366.3	1353.2	1340.8	1413.5	1631.5	1956.9	2150.7	2000.4	1968.1	1476.2
27.5°	1664.4	1653.2	1587.4	1499.2	1482.4	1639.5	2009.1	2305.9	2150.0	2115.3	1555.7
30°	1961.9	1942.6	1902.2	1773.1	1643.3	1696.7	2046.9	2456.8	2327.0	2281.1	1628.4
32.5°	2235.1	2247.5	2187.3	2054.4	1904.1	1818.4	2096.0	2621.4	2530.1	2473.0	1712.8
35°	2553.7	2578.5	2486.0	2358.7	2182.9	2038.2	2191.6	2807.1	2787.8	2715.8	1843.2
37.5°	2877.3	2892.2	2835.7	2656.8	2498.4	2317.7	2371.7	3036.2	3105.2	3043.7	1999.1
40°	3149.3	3169.8	3128.2	2969.2	2800.3	2641.3	2633.2	3285.9	3482.8	3419.4	2231.4
42.5°	3357.3	3372.9	3374.1	3261.7	3109.5	3037.5	2966.7	3604.5	3956.0	3882.7	2500.9
45°	3620.0	3642.4	3629.3	3553.0	3439.3	3426.3	3389.6	3989.5	4522.4	4429.9	2850.6
47.5°	4026.2	4041.1	4008.8	3918.7	3803.2	3823.7	3802.0	4421.2	5100.0	5020.5	3212.6
50°	4308.1	4333.0	4378.9	4415.0	4331.1	4255.3	4190.8	4824.2	5648.3	5576.9	3582.8
52.5°	4305.0	4346.0	4491.3	4672.7	4855.9	4832.9	4647.2	5269.5	6171.9	6083.7	3930.5
55°	4015.0	4094.5	4308.1	4629.8	5137.2	5390.0	5305.5	5785.0	6624.0	6564.4	4333.6
57.5°	3416.3	3464.8	3761.6	4211.3	4980.1	5652.1	6068.2	6483.6	7166.1	7138.2	4959.6
60°	2297.8	2319.6	2701.5	3257.3	4239.8	5390.6	6627.1	7328.9	7833.8	7820.1	5690.6
62.5°	1316.6	1325.9	1602.9	2071.8	3017.0	4568.3	6674.3	8371.6	8634.3	8641.7	6536.4
65°	708.6	713.6	937.1	1216.0	1835.8	3256.1	6001.7	8942.9	9281.4	9295.7	7060.6
66°	611.7	588.1	745.9	1036.5	1460.7	2591.6	5576.3	8922.4	9405.6	9390.1	7041.9
67.5°	465.2	486.3	595.6	796.8	1082.5	1842.6	4603.7	8525.6	9311.2	9262.8	6755.6
70°	332.9	341.6	424.2	568.2	737.2	1011.0	2941.9	7081.1	8462.9	8397.7	5885.6
72.5°	214.9	224.2	300.6	411.1	532.8	552.1	1647.0	5116.1	6524.6	6515.3	4432.3
75°	153.4	162.1	198.7	294.4	400.6	341.6	793.1	3448.0	4147.9	4120.0	2741.9
77.5°	111.2	115.5	132.9	192.5	286.3	244.7	367.7	1841.4	2064.9	2162.5	1211.6
80°	64.0	67.7	92.5	117.4	193.8	167.1	175.8	739.0	762.0	725.4	378.8
82.5°	31.7	36.0	55.3	80.1	121.1	112.4	80.7	222.3	234.8	228.5	95.6
85°	7.5	9.3	31.1	52.8	59.0	50.3	39.1	65.2	80.7	78.9	36.6
87.5°	0.6	1.2	11.2	9.3	9.9	16.8	13.7	16.8	26.1	24.2	13.0
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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	926.6	914.8	880.6	847.1	819.1	790.0	763.3	747.7	741.5	734.7	737.8
5°	939.6	911.1	842.1	782.5	724.1	674.4	634.7	609.2	596.8	595.0	591.8
7.5°	957.0	908.0	801.1	708.0	631.6	576.3	531.0	494.3	483.2	473.2	465.2
10°	978.1	902.4	750.2	629.7	548.4	478.8	419.2	375.7	353.4	347.2	351.5
12.5°	1000.5	891.8	696.8	557.7	463.9	375.1	319.8	298.1	291.9	289.4	290.0
15°	1022.8	878.8	640.9	488.1	369.5	299.3	273.9	268.3	265.8	264.6	263.3
17.5°	1043.3	857.7	578.2	420.4	299.3	255.9	246.6	241.6	236.6	234.8	231.6
20°	1067.6	833.4	521.7	344.7	253.4	231.6	220.5	211.2	203.7	198.7	198.1
22.5°	1090.5	802.4	462.7	285.7	231.0	208.0	190.0	180.1	171.4	165.2	167.1
25°	1103.0	764.5	409.9	249.0	210.5	184.4	164.6	152.2	142.8	139.7	139.1
27.5°	1103.0	717.9	358.3	227.9	191.9	163.3	142.8	131.0	124.8	120.5	121.1
30°	1094.3	666.4	310.5	211.8	175.8	144.7	125.4	114.9	109.9	106.8	106.2
32.5°	1087.4	617.3	269.5	196.2	159.0	128.6	111.8	103.7	98.7	95.6	95.6
35°	1098.0	575.1	237.9	180.7	143.5	116.1	101.2	93.8	88.8	86.3	85.7
37.5°	1125.9	536.6	213.6	164.0	129.2	105.6	93.8	85.1	80.1	77.0	75.8
40°	1194.9	514.8	195.6	148.4	115.5	96.9	85.1	77.0	70.8	67.7	67.1
42.5°	1305.4	515.5	178.2	134.1	105.0	89.4	77.6	68.3	61.5	58.4	57.8
45°	1471.9	539.1	164.6	120.5	95.6	81.4	69.6	59.6	53.4	50.3	50.3
47.5°	1671.2	585.0	152.8	108.7	86.9	73.9	61.5	51.5	45.3	42.9	42.9
50°	1887.3	644.6	141.0	96.3	79.5	65.8	52.8	44.7	39.7	37.9	37.9
52.5°	2107.8	716.7	129.2	86.3	71.4	57.1	45.3	39.7	35.4	34.2	33.5
55°	2397.2	808.6	116.8	75.8	62.7	49.1	40.4	34.8	29.8	27.9	27.3
57.5°	2842.5	947.1	103.1	66.5	51.5	41.0	34.8	29.2	23.6	20.5	19.9
60°	3379.7	1116.0	88.8	58.4	41.6	33.5	27.9	22.4	17.4	13.7	13.0
62.5°	3882.7	1223.4	75.1	49.1	32.9	25.5	19.9	16.8	12.4	8.7	8.1
65°	4105.1	1187.4	62.1	39.7	26.1	18.0	13.0	11.8	7.5	3.7	3.1
66°	4031.2	1134.0	57.1	36.0	23.6	15.5	11.2	9.9	5.6	1.9	1.9
67.5°	3813.2	1007.9	49.7	31.1	20.5	12.4	8.7	7.5	3.1	0.6	0.0
70°	3267.3	815.4	39.1	23.0	14.9	8.7	5.0	3.7	1.9	0.0	0.0
72.5°	2509.6	607.4	31.1	17.4	10.6	5.0	2.5	1.2	1.9	0.0	0.0
75°	1537.7	347.2	24.2	13.0	6.8	3.1	1.9	0.0	1.9	0.6	0.0
77.5°	682.5	155.9	16.1	8.7	5.0	2.5	1.2	0.0	1.2	0.6	0.0
80°	172.6	50.9	9.3	6.2	3.7	1.9	0.6	0.0	1.2	1.2	0.6
82.5°	47.2	18.6	6.8	5.0	3.1	1.9	0.6	0.0	1.2	1.2	1.2
85°	18.6	8.7	6.2	5.0	3.7	1.9	0.6	0.0	1.2	1.2	1.2
87.5°	8.7	6.2	6.2	5.6	4.3	1.9	0.6	0.0	1.2	0.6	1.2
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)