

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: STREETWORKS

Report Number: P322086

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-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: 8181 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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



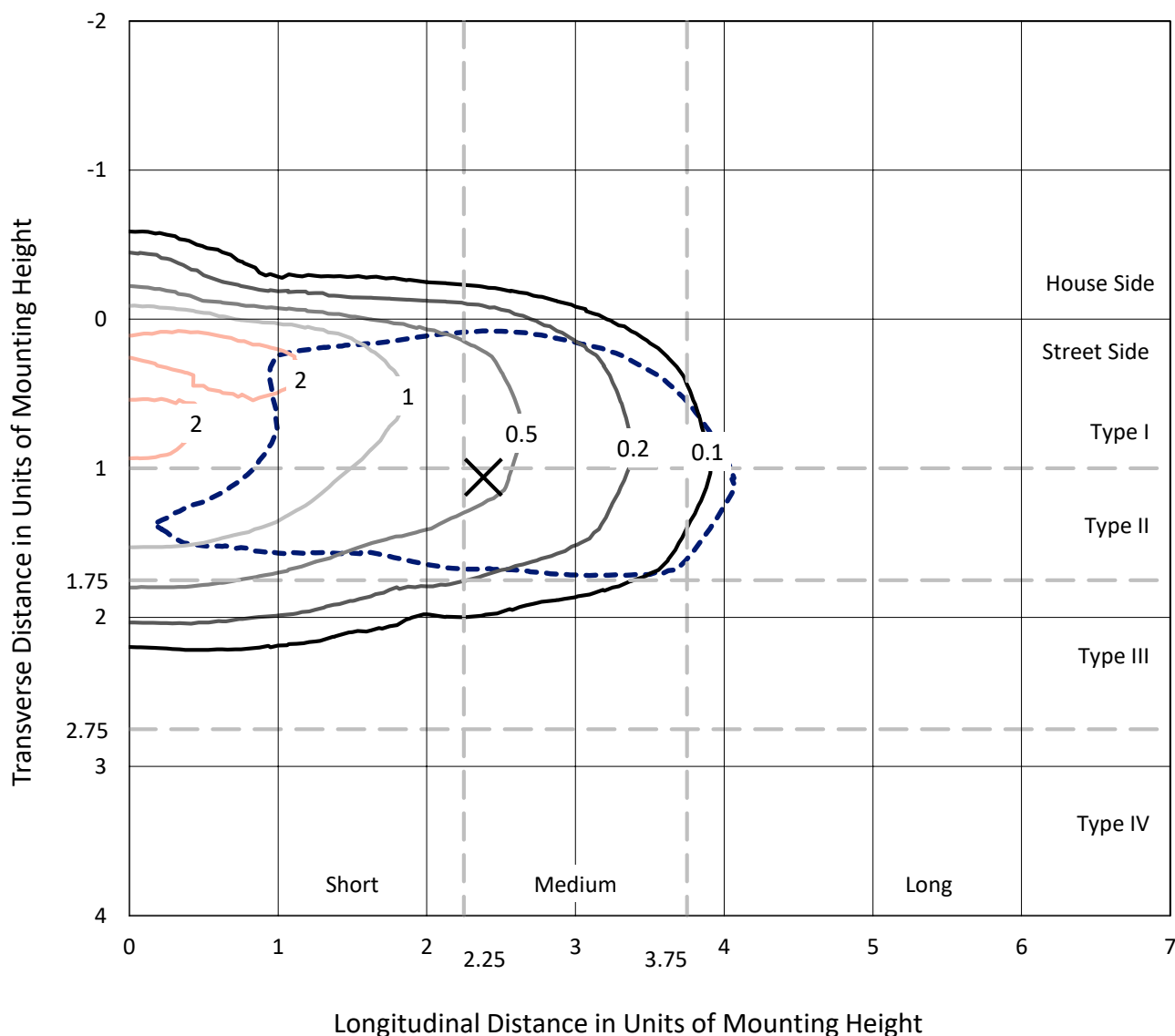
REPORT NUMBER: P322086

CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

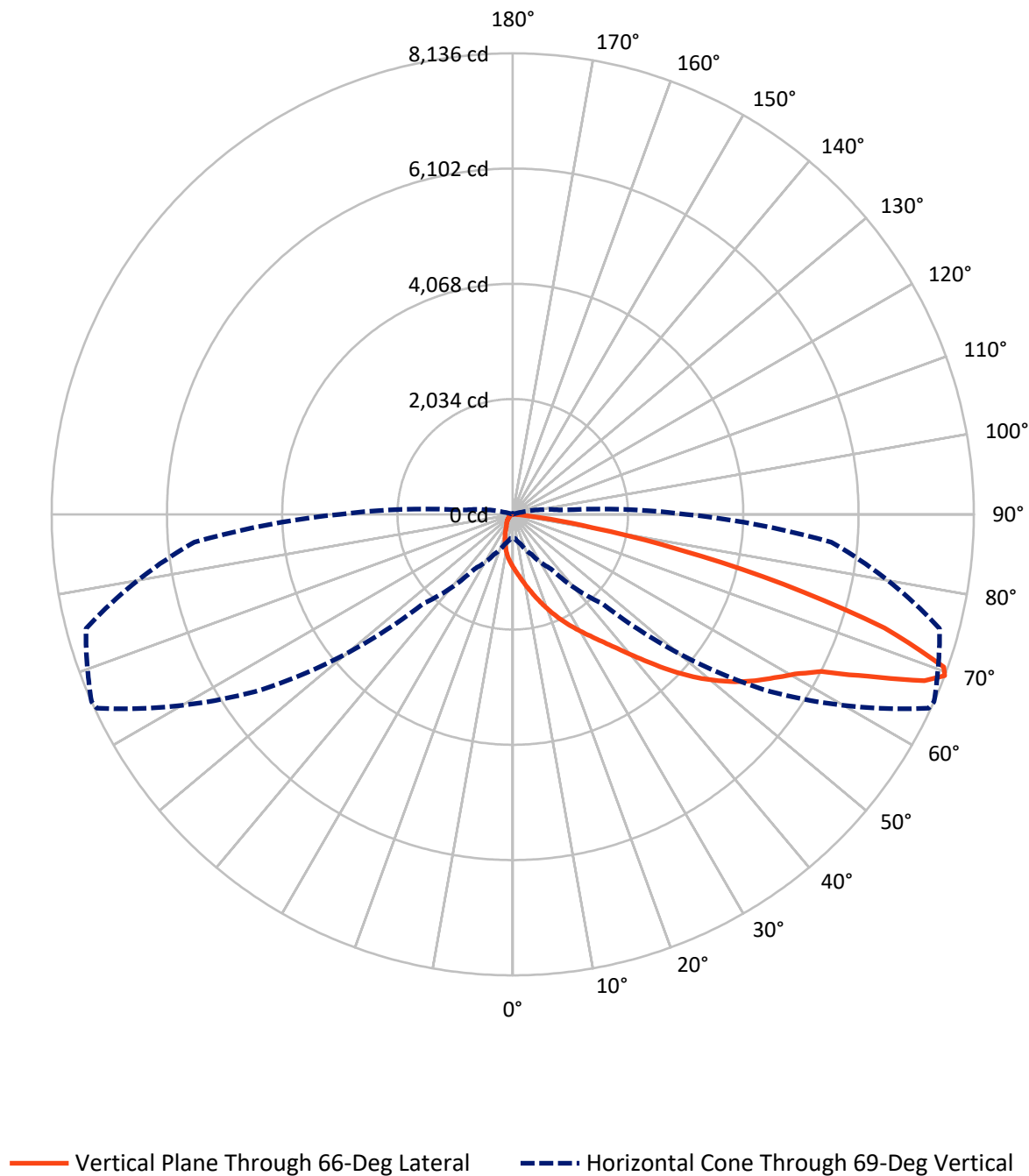


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P322086

CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322086

CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	490.7	0.0	490.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7690.3	0.0	7690.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	8181.0	0.0	8181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	267.8	3.3
20°-30°	466.4	5.7
30°-40°	818.3	10.0
40°-50°	1369.7	16.7
50°-60°	2013.4	24.6
60°-70°	2067.3	25.3
70°-80°	1020.5	12.5
80°-90°	67.5	0.8
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°	8181.0	100.0
0°-180°	8181.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322086

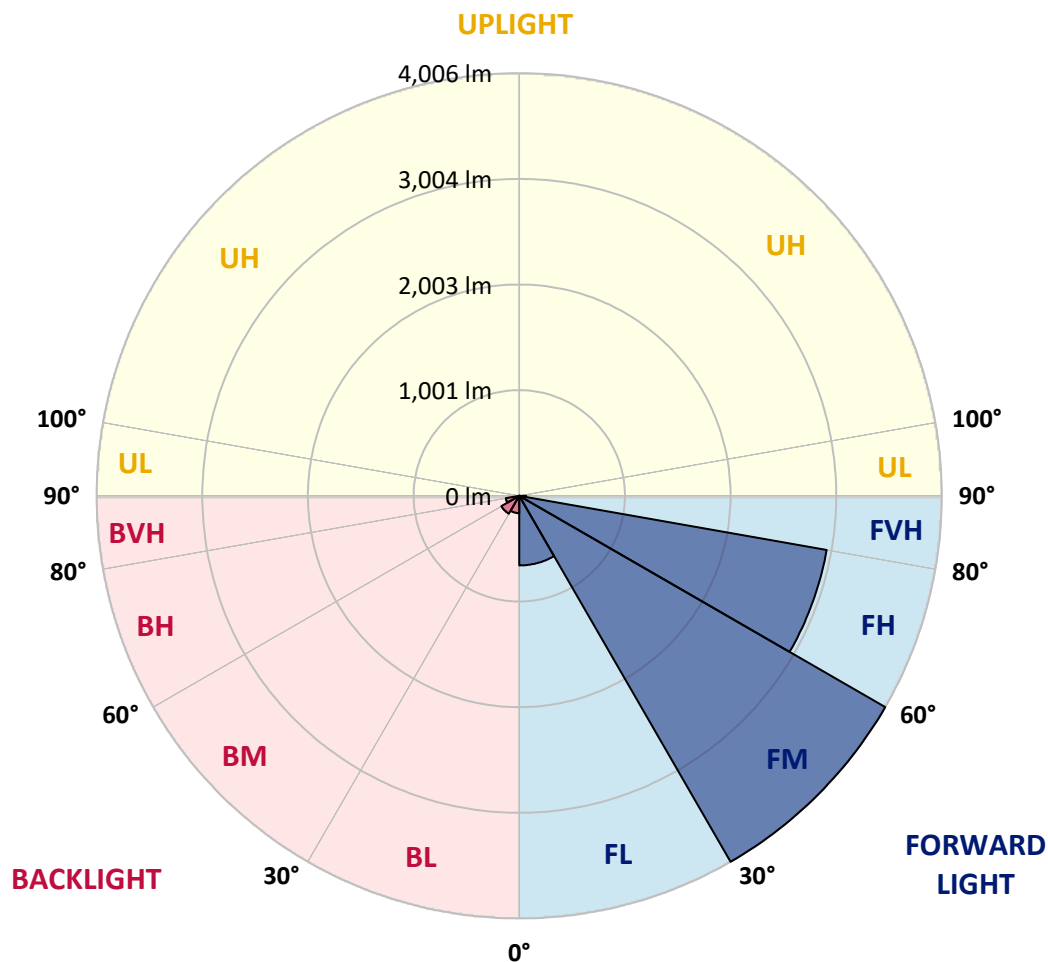
CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.1	8.1			
FM	(30°-60°)	4005.8	49.0			
FH	(60°-80°)	2958.5	36.2			G2/5000
FVH	(80°-90°)	65.8	0.8			G1/100
BL	(0°-30°)	164.1	2.0	B1/500		
BM	(30°-60°)	195.7	2.4	B0/220		
BH	(60°-80°)	129.3	1.6	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 II Medium



REPORT NUMBER: P322086

CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0
2.5°	1095.8	1091.1	1089.2	1080.6	1065.9	1054.6	1032.8	1007.6	1002.9	978.4	948.5
5°	1238.0	1234.1	1231.4	1219.3	1204.2	1175.8	1136.2	1089.2	1080.2	1033.6	973.8
7.5°	1337.1	1344.1	1344.1	1336.3	1317.3	1295.9	1247.3	1183.2	1171.9	1100.4	1007.6
10°	1395.0	1403.5	1410.1	1416.7	1414.0	1405.5	1359.6	1287.3	1273.7	1178.9	1046.8
12.5°	1400.4	1409.0	1427.6	1455.2	1482.0	1501.5	1472.7	1402.8	1387.2	1269.9	1093.4
15°	1370.1	1379.1	1407.8	1461.4	1526.3	1583.1	1592.4	1530.6	1514.7	1378.3	1151.7
17.5°	1317.3	1323.1	1364.3	1438.5	1540.3	1644.4	1700.8	1667.8	1653.0	1502.2	1216.6
20°	1278.0	1282.3	1318.4	1398.1	1531.8	1682.9	1803.4	1813.5	1797.9	1635.1	1287.0
22.5°	1345.2	1353.0	1354.2	1391.9	1508.4	1702.0	1893.5	1956.9	1945.2	1776.2	1356.1
25°	1529.0	1538.0	1508.4	1485.1	1528.3	1710.5	1970.8	2103.7	2094.4	1928.1	1425.7
27.5°	1771.9	1781.2	1743.1	1673.6	1632.0	1742.8	2039.6	2253.0	2252.6	2089.0	1500.7
30°	2010.5	2019.8	1981.0	1911.4	1815.8	1834.1	2099.1	2409.2	2411.5	2254.9	1580.3
32.5°	2260.7	2272.4	2232.4	2143.0	2043.1	1991.8	2182.6	2566.1	2579.4	2447.2	1670.1
35°	2545.2	2546.7	2490.4	2396.7	2281.7	2202.8	2316.7	2742.2	2773.6	2685.4	1783.9
37.5°	2824.2	2835.4	2789.2	2641.5	2535.8	2446.5	2516.0	2962.1	3006.8	2976.5	1932.8
40°	3030.9	3054.6	3048.0	2888.7	2788.4	2724.7	2763.5	3223.6	3280.3	3315.3	2120.5
42.5°	3160.7	3178.5	3208.8	3112.9	3021.9	3032.4	3055.7	3528.3	3598.2	3701.6	2336.1
45°	3309.5	3318.0	3343.3	3300.9	3239.5	3345.2	3365.8	3871.4	3944.8	4116.9	2575.5
47.5°	3491.3	3511.5	3518.5	3479.7	3451.7	3621.9	3664.6	4183.4	4286.4	4561.9	2828.8
50°	3722.9	3728.4	3740.4	3715.2	3687.2	3859.7	3932.8	4511.0	4604.6	5008.3	3078.7
52.5°	3949.5	3968.9	4010.9	3994.9	3983.7	4062.2	4171.7	4806.3	4910.8	5380.6	3328.1
55°	4014.7	4031.5	4176.4	4275.5	4367.2	4311.6	4400.2	5070.9	5184.0	5713.2	3568.3
57.5°	3754.0	3787.8	4038.8	4296.9	4677.3	4699.4	4714.2	5342.5	5443.9	5968.1	3818.1
60°	3095.0	3101.6	3513.5	3956.1	4626.0	5037.9	5172.7	5634.3	5719.4	6205.5	4117.3
62.5°	1968.5	2035.7	2487.7	3112.5	4083.5	4988.9	5727.2	6075.7	6106.8	6490.4	4546.3
65°	937.6	981.2	1306.8	1923.1	2957.8	4362.1	6109.9	6874.3	6888.3	7055.0	5119.5
67.5°	519.1	540.1	695.2	1035.2	1729.2	3084.9	5955.3	7820.1	7833.3	7631.6	5622.3
69°	406.1	423.9	545.9	780.3	1172.3	2217.2	5389.1	8097.1	8136.4	7796.7	5640.2
70°	344.7	362.2	470.2	659.0	942.7	1713.2	4796.9	8028.3	8069.9	7781.2	5506.9
72.5°	211.0	221.1	313.2	464.0	631.8	861.9	2958.2	6789.6	6859.9	7137.7	4732.8
75°	142.2	147.7	195.8	320.2	451.9	443.8	1536.8	4785.7	4938.0	5552.3	3495.6
77.5°	101.8	106.9	131.3	207.1	316.7	293.0	695.9	2974.1	3006.8	3330.1	1906.3
80°	57.9	62.6	92.9	123.2	214.9	195.5	276.7	1420.6	1436.9	1428.0	636.5
82.5°	30.3	34.2	50.9	81.2	137.9	127.8	115.0	475.6	477.9	397.5	139.5
85°	5.8	7.0	25.3	55.6	71.1	55.6	47.0	111.5	113.9	100.6	34.6
87.5°	0.0	0.4	10.1	12.4	14.0	14.4	15.2	21.8	23.3	31.5	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P322086

CATALOG NUMBER: GAN-SA2C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0	931.0
2.5°	935.3	921.3	894.5	863.4	839.3	815.6	797.0	777.5	770.5	767.0	766.7
5°	944.6	915.1	858.4	800.1	752.3	707.2	675.0	644.3	629.9	623.3	620.6
7.5°	960.2	912.8	821.4	732.5	663.7	607.3	562.7	529.2	512.5	505.5	502.8
10°	978.4	909.7	778.3	661.0	573.1	514.9	470.6	437.5	419.3	411.5	407.6
12.5°	999.8	904.2	728.6	588.7	495.8	437.5	383.9	343.1	322.1	313.2	308.9
15°	1026.2	898.8	676.5	520.7	427.8	356.7	298.0	270.4	266.2	264.6	265.0
17.5°	1052.3	890.2	619.8	453.5	356.3	278.6	248.7	247.1	247.9	247.9	247.9
20°	1075.6	870.8	558.0	396.0	288.3	235.1	228.9	226.2	224.2	222.7	220.7
22.5°	1093.8	844.8	498.5	338.8	235.5	215.3	205.6	197.0	190.0	185.3	183.0
25°	1106.3	810.2	444.1	284.0	211.8	195.8	178.4	164.0	153.1	146.5	143.8
27.5°	1115.6	772.9	395.6	237.8	195.5	173.3	150.4	133.3	122.0	116.2	113.9
30°	1122.2	730.5	352.8	209.1	177.2	149.6	125.1	108.4	100.3	97.1	95.6
32.5°	1128.4	683.5	312.4	195.5	160.1	127.8	104.9	92.1	87.0	83.2	82.0
35°	1144.0	640.0	273.9	181.1	142.6	109.2	90.1	80.8	75.8	73.4	72.7
37.5°	1180.9	607.7	237.0	166.3	125.1	94.4	78.9	72.3	67.6	65.3	64.5
40°	1240.3	591.4	205.9	150.4	108.0	83.2	71.5	65.3	60.2	56.7	56.0
42.5°	1327.8	593.7	184.2	134.4	94.4	74.2	64.5	57.1	51.7	48.6	47.8
45°	1433.8	610.8	169.0	118.9	83.2	67.2	56.7	49.0	43.9	41.2	40.4
47.5°	1548.9	638.4	156.6	104.9	74.2	60.6	49.0	40.8	36.5	34.2	33.8
50°	1670.1	665.2	143.8	91.3	66.4	54.0	41.2	33.8	30.3	28.4	27.6
52.5°	1792.9	696.3	132.1	78.9	59.8	46.2	34.2	27.6	24.9	23.3	22.5
55°	1925.0	719.6	120.8	69.2	53.2	39.2	28.4	22.9	20.6	18.7	18.3
57.5°	2080.4	755.8	109.2	59.8	45.5	32.6	23.3	18.3	16.3	14.4	14.0
60°	2290.3	798.1	96.8	52.8	37.3	26.8	19.0	14.8	12.4	10.9	10.5
62.5°	2566.9	845.1	81.2	46.2	30.3	21.8	15.2	11.7	8.9	7.0	7.0
65°	2917.8	921.7	66.4	38.9	24.9	17.9	11.7	8.5	5.1	3.1	3.1
67.5°	3122.6	934.9	53.6	31.9	20.2	15.2	9.7	5.8	1.6	0.4	0.0
69°	3056.9	858.4	45.5	27.2	17.5	14.4	8.9	4.3	0.8	0.0	0.0
70°	2933.3	784.9	40.0	24.1	15.9	13.6	8.5	3.1	0.8	0.0	0.0
72.5°	2423.9	558.8	30.3	17.9	11.7	12.0	7.8	1.9	0.8	0.0	0.0
75°	1765.7	339.6	21.8	12.4	7.4	8.9	5.4	0.8	0.4	0.0	0.0
77.5°	982.3	160.1	13.6	7.0	4.7	5.4	2.7	0.0	0.0	0.0	0.0
80°	319.0	43.5	6.2	3.9	2.7	3.1	1.2	0.0	0.0	0.0	0.0
82.5°	59.1	12.4	3.5	1.9	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	12.8	5.1	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.6	0.4	0.0	0.0	0.0	0.0	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)