

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: P321706

Luminaire Tested: **GAN-SA2A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5391 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

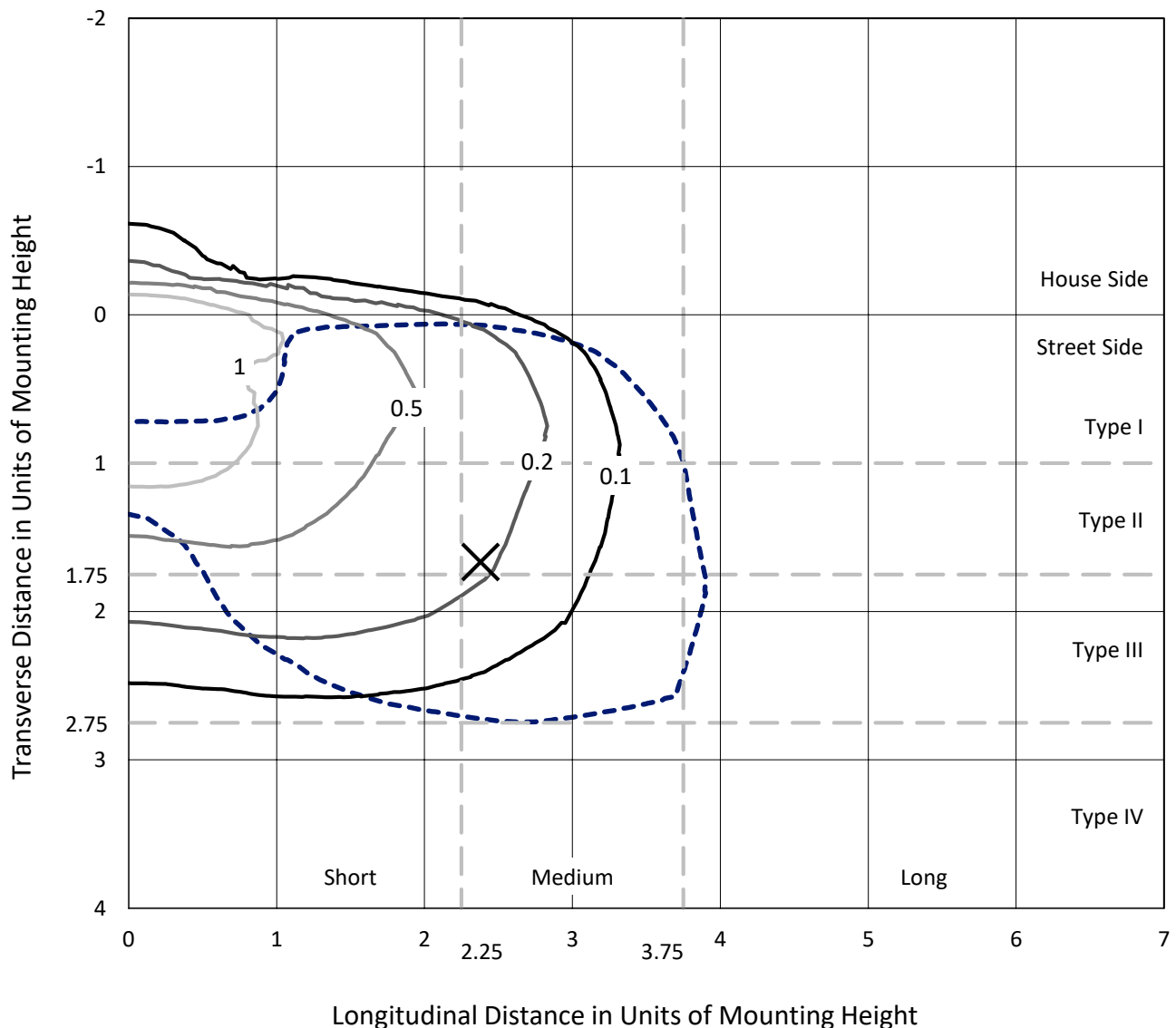
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

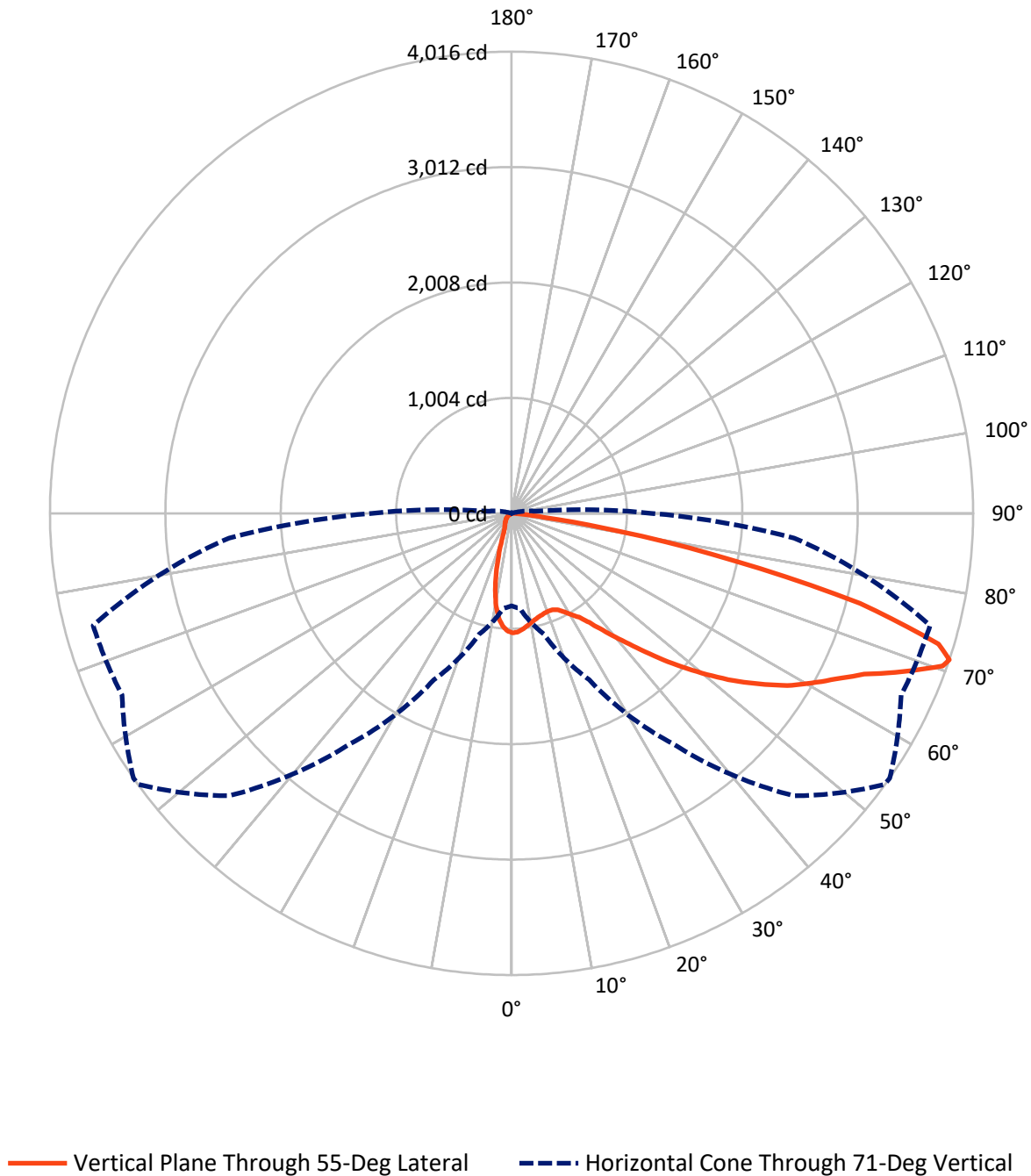
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.8	0.0	426.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4964.2	0.0	4964.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	5391.0	0.0	5391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.6
10°-20°	200.1	3.7
20°-30°	321.6	6.0
30°-40°	546.4	10.1
40°-50°	848.1	15.7
50°-60°	1140.3	21.2
60°-70°	1394.9	25.9
70°-80°	815.6	15.1
80°-90°	35.3	0.7
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°	5391.0	100.0
0°-180°	5391.0	100.0

Coefficient of Utilization



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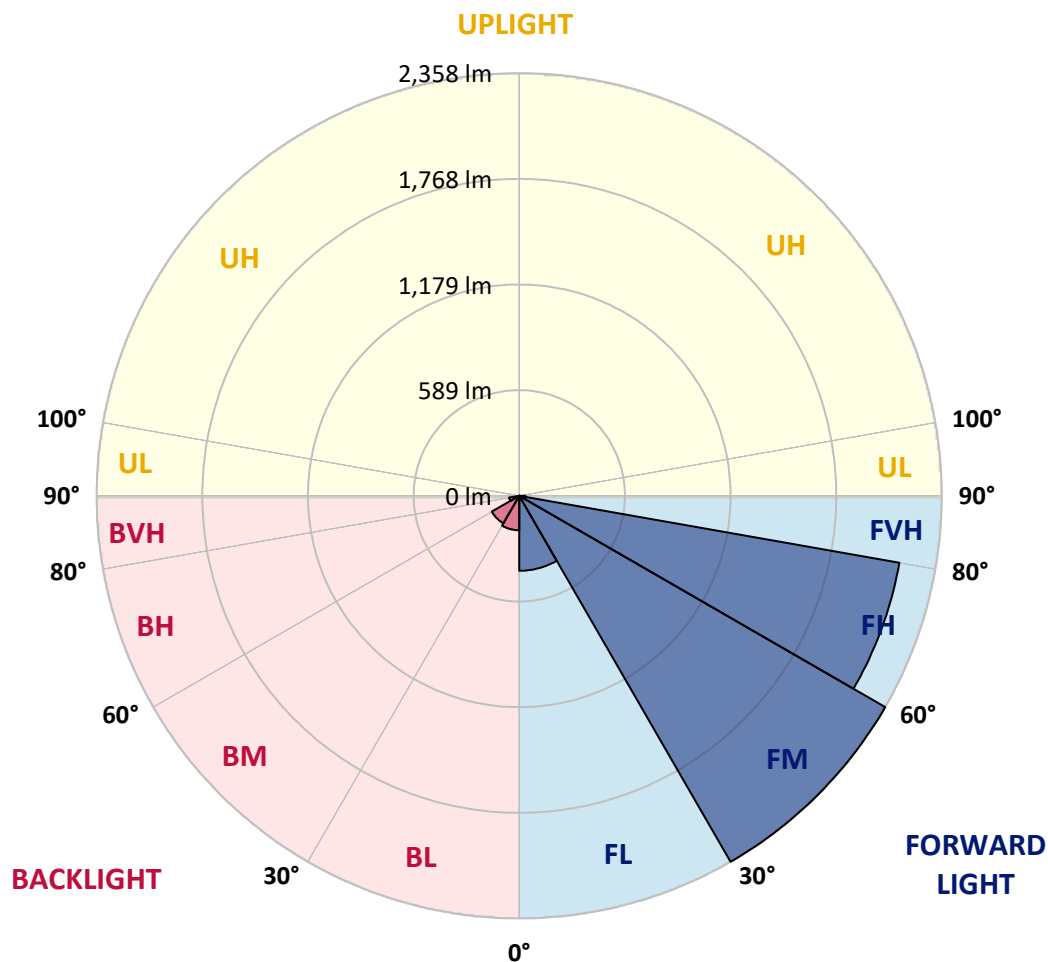
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.3	7.8			
FM	(30°-60°)	2357.9	43.7			
FH	(60°-80°)	2153.3	39.9			G2/5000
FVH	(80°-90°)	34.7	0.6			G1/100
BL	(0°-30°)	192.1	3.6	B1/500		
BM	(30°-60°)	177.0	3.3	B0/220		
BH	(60°-80°)	57.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1009.2	1010.4	1014.7	1016.7	1021.3	1029.0	1032.9	1033.1	1039.4	1041.9	1043.8
5°	937.8	945.0	952.3	960.0	974.1	992.7	1011.1	1012.8	1033.1	1048.1	1056.1
7.5°	876.3	882.8	891.5	903.9	923.7	953.0	983.8	987.4	1025.9	1060.0	1077.9
10°	813.1	818.4	831.0	849.2	876.5	915.7	957.1	963.2	1019.3	1076.0	1107.5
12.5°	745.6	748.7	764.0	790.1	830.3	880.2	934.6	942.6	1015.2	1094.4	1142.3
15°	694.2	695.7	710.2	737.3	783.3	848.2	917.2	926.9	1016.2	1116.4	1180.3
17.5°	681.2	681.9	689.6	708.3	749.0	819.6	903.4	915.3	1019.1	1138.0	1218.6
20°	734.2	729.1	721.1	718.2	735.6	802.4	895.2	908.5	1023.0	1157.1	1252.9
22.5°	879.7	864.7	831.5	787.2	760.3	803.7	897.3	910.7	1035.3	1180.6	1292.6
25°	1095.6	1074.8	1018.4	931.2	847.5	838.5	915.5	929.0	1059.3	1208.6	1330.6
27.5°	1341.3	1320.7	1251.7	1127.3	984.5	907.5	957.1	969.7	1094.9	1233.6	1359.7
30°	1576.6	1570.8	1489.4	1348.1	1156.8	1019.3	1010.9	1021.5	1121.2	1248.6	1382.7
32.5°	1776.0	1766.8	1701.5	1564.0	1354.1	1153.7	1074.0	1077.2	1141.1	1267.9	1412.7
35°	1961.0	1949.6	1892.2	1762.2	1556.5	1317.8	1171.4	1166.8	1184.4	1306.9	1456.3
37.5°	2122.4	2132.8	2069.2	1945.5	1738.0	1488.5	1302.6	1288.8	1252.2	1370.3	1519.4
40°	2257.5	2257.5	2224.3	2121.2	1934.1	1664.9	1450.9	1432.8	1354.1	1468.1	1599.6
42.5°	2306.2	2316.6	2328.9	2270.6	2109.6	1848.4	1616.3	1597.4	1497.7	1606.8	1700.8
45°	2309.1	2325.5	2388.7	2388.5	2268.2	2030.7	1802.7	1793.7	1681.6	1785.0	1826.1
47.5°	2268.2	2288.7	2392.8	2451.9	2393.8	2200.4	2006.5	1995.4	1897.8	2003.3	1957.3
50°	2205.0	2227.7	2348.8	2476.8	2479.2	2348.0	2221.2	2204.5	2135.7	2252.9	2092.9
52.5°	2091.9	2136.0	2309.3	2482.6	2535.4	2475.6	2425.5	2418.2	2402.0	2493.3	2200.9
55°	1850.1	1899.0	2210.3	2484.6	2587.4	2588.7	2617.0	2618.9	2651.6	2717.9	2281.2
57.5°	1735.9	1763.5	2037.5	2493.8	2664.7	2716.9	2812.1	2827.1	2877.7	2931.2	2373.0
60°	1664.0	1696.6	1952.3	2481.2	2785.9	2885.2	2992.9	2998.0	3052.2	3151.2	2497.2
62.5°	1606.6	1638.8	1898.5	2432.8	2922.2	3087.6	3169.6	3170.1	3210.8	3413.4	2638.3
65°	1465.0	1492.1	1789.8	2378.3	3012.3	3287.7	3374.9	3371.7	3404.9	3689.8	2802.2
67.5°	1260.2	1281.0	1567.9	2171.8	2978.4	3469.8	3684.7	3674.3	3634.1	3928.7	2866.5
70°	974.3	981.8	1235.7	1809.9	2660.8	3539.7	3984.2	3978.8	3774.8	3885.9	2630.5
71°	805.4	830.0	1089.1	1597.4	2448.0	3475.1	4013.2	4016.4	3739.4	3769.2	2468.1
72.5°	467.7	488.7	789.4	1226.8	2078.4	3205.4	3862.6	3885.4	3574.3	3428.4	2108.2
75°	100.2	107.2	292.7	593.8	1143.3	2246.6	3048.8	3129.9	2913.3	2332.3	1270.6
77.5°	69.7	75.3	125.4	269.4	377.9	1110.1	1893.9	1985.4	1740.5	876.5	406.7
80°	55.2	61.5	97.8	133.1	102.2	358.0	887.2	943.1	580.5	195.6	68.5
82.5°	30.7	36.6	76.3	71.9	39.2	68.0	248.4	280.8	116.2	39.5	16.2
85°	9.0	10.9	49.1	52.3	16.7	13.1	42.4	52.5	22.0	10.4	7.3
87.5°	0.0	0.0	23.7	20.1	4.8	1.9	3.9	4.4	4.4	4.4	4.8
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°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1043.8	1045.5	1039.4	1031.4	1023.0	1012.6	1001.7	993.2	993.0	988.8	984.7
5°	1056.6	1055.7	1038.9	1013.5	983.5	952.3	922.5	888.9	877.7	863.9	859.3
7.5°	1080.3	1073.6	1038.2	982.5	916.7	851.3	783.8	715.8	686.7	660.6	656.0
10°	1110.1	1097.3	1033.6	936.1	815.3	694.7	592.8	500.4	459.7	428.5	427.0
12.5°	1141.1	1121.5	1020.8	865.9	682.4	512.9	395.5	304.5	270.6	248.8	250.8
15°	1173.5	1144.2	993.2	771.2	531.1	348.1	243.0	189.5	176.0	170.4	171.9
17.5°	1206.7	1160.0	954.7	657.2	381.7	224.6	168.2	153.2	153.2	154.4	154.9
20°	1235.5	1168.5	898.1	529.4	258.8	163.6	147.2	145.0	146.2	148.1	148.4
22.5°	1264.1	1168.9	824.2	399.9	181.1	143.3	140.2	139.2	139.9	142.1	142.3
25°	1287.3	1163.1	731.8	284.4	144.5	135.1	133.6	133.1	133.6	136.3	136.3
27.5°	1296.7	1142.1	619.0	199.9	129.5	125.9	125.4	125.9	126.6	128.5	128.8
30°	1297.7	1105.3	496.0	144.8	117.4	113.5	114.5	116.2	115.5	115.0	115.5
32.5°	1300.1	1062.7	376.2	119.1	107.2	101.2	100.0	100.0	97.1	95.4	94.4
35°	1308.1	1012.6	272.8	107.0	96.8	89.8	85.2	79.9	74.3	71.4	70.7
37.5°	1320.7	960.0	195.3	99.0	87.6	79.6	70.9	61.5	53.5	51.3	51.3
40°	1343.7	905.8	144.5	92.7	80.4	70.4	57.4	45.0	37.8	36.6	36.6
42.5°	1380.0	848.7	115.2	87.1	74.1	61.0	43.8	32.7	27.4	26.6	26.4
45°	1417.8	785.7	100.7	81.8	67.3	50.1	32.4	24.2	21.1	20.3	20.3
47.5°	1455.5	718.7	93.7	76.7	60.8	39.0	24.2	19.1	17.7	17.7	17.9
50°	1487.5	648.7	88.6	71.2	52.3	29.5	19.1	16.2	15.7	16.7	16.9
52.5°	1495.5	580.0	82.3	64.1	41.9	22.5	15.7	14.3	14.3	14.3	14.3
55°	1490.6	526.7	74.1	55.4	31.0	17.9	13.6	12.6	12.3	12.3	12.3
57.5°	1507.1	495.3	59.3	43.1	22.3	14.5	11.9	11.1	10.7	10.4	10.4
60°	1540.3	474.7	42.4	31.0	16.7	12.1	10.2	9.4	8.7	8.2	8.2
62.5°	1584.3	456.8	31.5	23.0	12.8	9.7	8.5	7.7	6.8	6.3	6.3
65°	1618.2	424.8	24.0	17.2	9.7	7.7	6.5	6.3	4.8	4.4	4.1
67.5°	1566.4	354.6	19.4	12.6	7.3	6.1	5.1	4.8	2.9	2.4	2.4
70°	1343.5	246.9	15.5	9.2	5.3	4.8	4.1	3.1	2.2	1.9	1.9
71°	1218.3	206.2	14.0	7.7	4.6	4.6	3.9	2.7	1.9	1.7	1.7
72.5°	1012.1	146.4	11.9	6.1	4.1	4.8	4.1	2.4	1.9	1.7	1.5
75°	587.5	61.2	8.2	4.1	3.1	5.8	5.3	2.2	1.5	1.2	1.2
77.5°	176.7	22.5	4.6	2.7	2.4	5.1	6.1	1.9	0.7	0.2	0.2
80°	32.2	9.7	2.9	1.7	1.7	3.1	4.6	1.0	0.0	0.0	0.0
82.5°	11.4	4.8	1.7	1.0	0.7	1.5	2.2	0.0	0.0	0.0	0.0
85°	6.5	3.4	1.0	0.5	0.0	0.2	0.5	0.0	0.0	0.0	0.0
87.5°	4.4	1.0	0.0	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)