

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: P321525

Luminaire Tested: **GAN-SA1C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321525
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-SA1C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4764 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

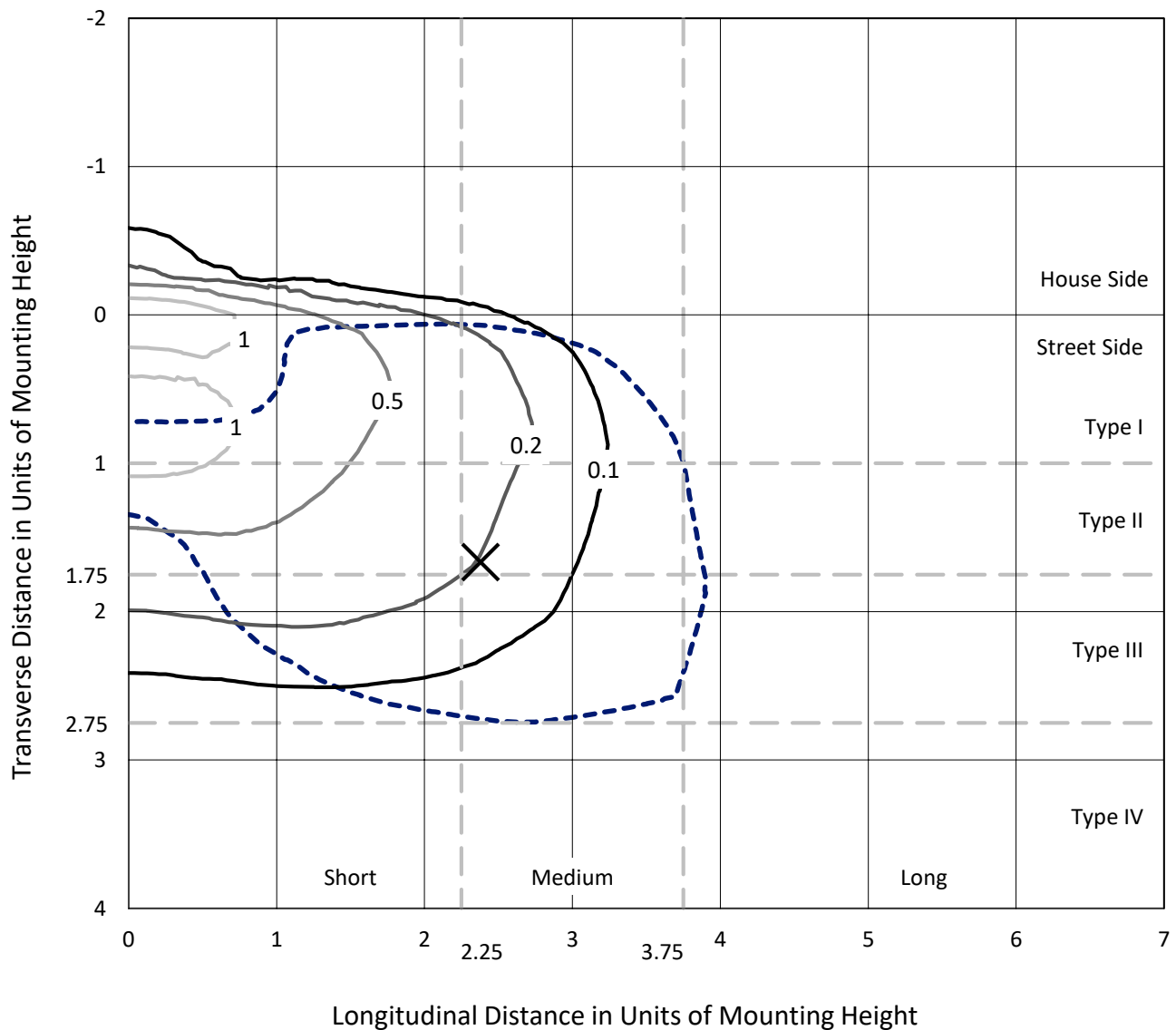
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

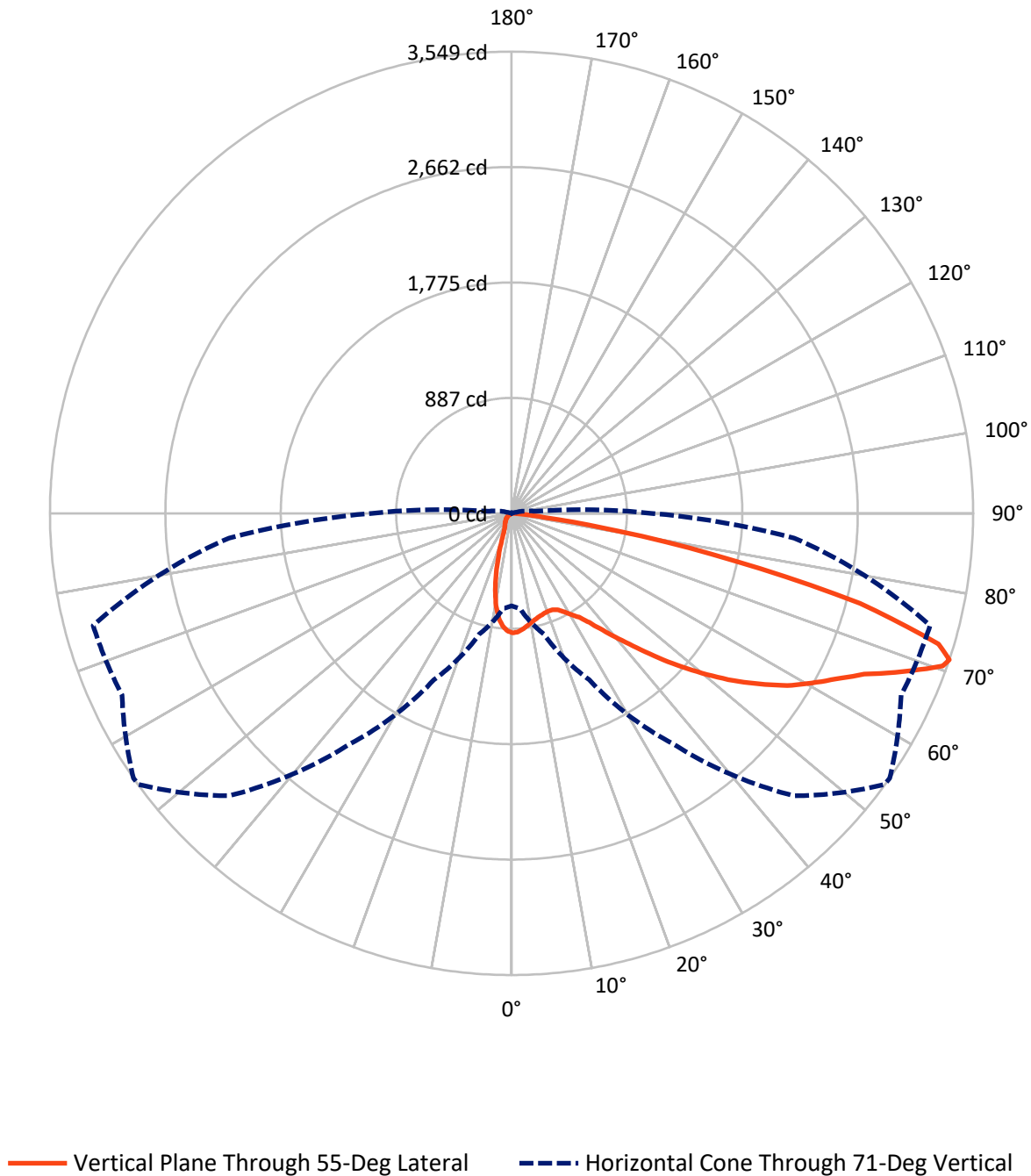
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	377.2	0.0	377.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	4386.8	0.0	4386.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	4764.0	0.0	4764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.6
10°-20°	176.8	3.7
20°-30°	284.2	6.0
30°-40°	482.9	10.1
40°-50°	749.5	15.7
50°-60°	1007.7	21.2
60°-70°	1232.7	25.9
70°-80°	720.7	15.1
80°-90°	31.2	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°	4764.0	100.0
0°-180°	4764.0	100.0

Coefficient of Utilization



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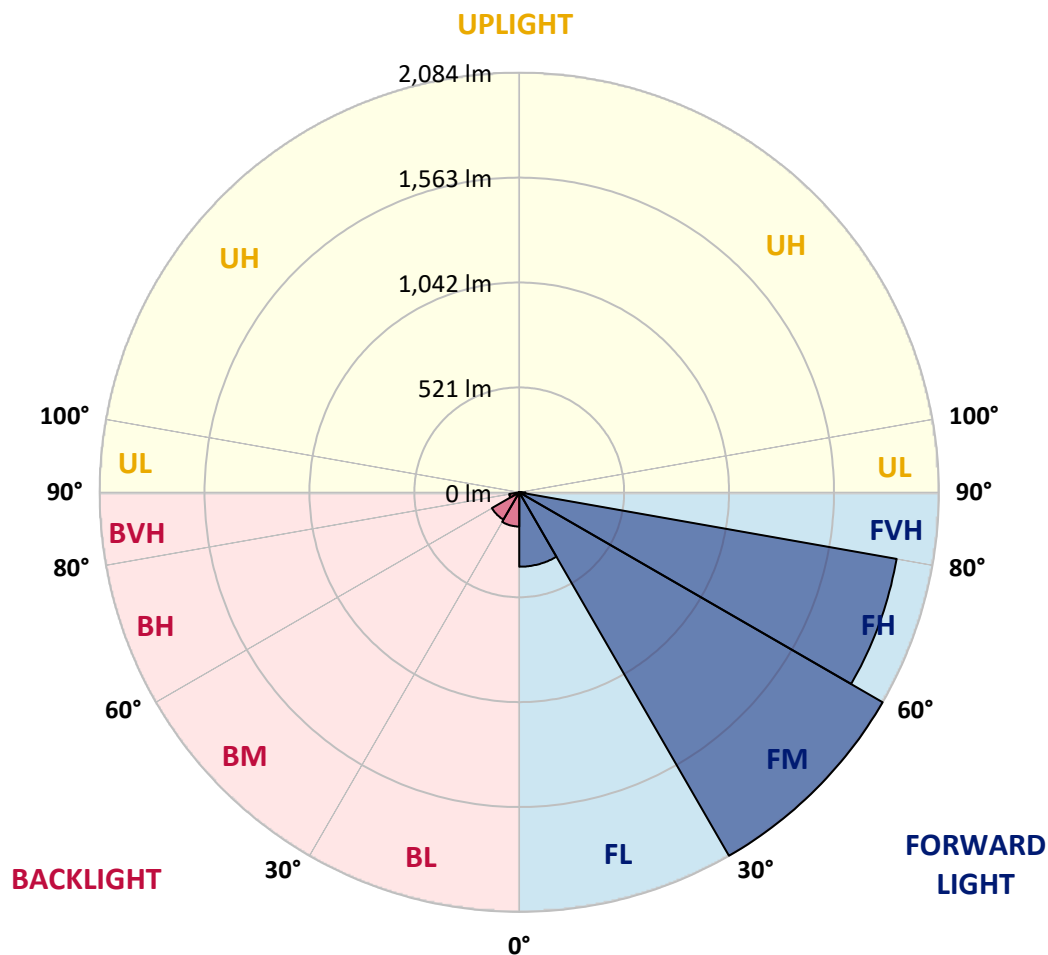
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.6	7.8			
FM	(30°-60°)	2083.6	43.7			
FH	(60°-80°)	1902.9	39.9			G2/5000
FVH	(80°-90°)	30.7	0.6			G1/100
BL	(0°-30°)	169.8	3.6	B1/500		
BM	(30°-60°)	156.4	3.3	B0/220		
BH	(60°-80°)	50.5	1.1	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	891.8	892.9	896.7	898.4	902.5	909.3	912.8	913.0	918.5	920.7	922.4
5°	828.7	835.1	841.5	848.4	860.8	877.3	893.5	895.0	913.0	926.2	933.3
7.5°	774.4	780.1	787.8	798.7	816.3	842.2	869.3	872.5	906.6	936.7	952.6
10°	718.5	723.2	734.4	750.4	774.6	809.2	845.8	851.2	900.8	950.8	978.7
12.5°	658.9	661.6	675.1	698.2	733.7	777.8	825.9	833.0	897.1	967.1	1009.5
15°	613.5	614.8	627.6	651.6	692.2	749.5	810.5	819.1	898.0	986.6	1043.0
17.5°	601.9	602.6	609.4	625.9	661.8	724.3	798.3	808.8	900.6	1005.6	1076.8
20°	648.8	644.3	637.2	634.7	650.1	709.1	791.0	802.8	904.0	1022.5	1107.2
22.5°	777.4	764.1	734.8	695.6	671.9	710.2	793.0	804.7	914.9	1043.3	1142.3
25°	968.2	949.8	899.9	822.9	748.9	741.0	809.0	821.0	936.1	1068.1	1175.9
27.5°	1185.3	1167.1	1106.1	996.2	870.0	802.0	845.8	856.9	967.5	1090.1	1201.5
30°	1393.2	1388.1	1316.2	1191.3	1022.3	900.8	893.3	902.7	990.8	1103.4	1221.9
32.5°	1569.5	1561.3	1503.6	1382.1	1196.6	1019.5	949.1	951.9	1008.4	1120.5	1248.4
35°	1732.9	1722.9	1672.2	1557.3	1375.5	1164.5	1035.1	1031.1	1046.7	1154.9	1286.9
37.5°	1875.6	1884.8	1828.5	1719.2	1535.9	1315.3	1151.1	1138.9	1106.6	1211.0	1342.7
40°	1994.9	1994.9	1965.6	1874.5	1709.2	1471.3	1282.2	1266.1	1196.6	1297.4	1413.5
42.5°	2037.9	2047.1	2058.1	2006.5	1864.2	1633.4	1428.3	1411.6	1323.5	1420.0	1502.9
45°	2040.5	2055.1	2110.9	2110.7	2004.4	1794.5	1593.0	1585.1	1486.1	1577.4	1613.8
47.5°	2004.4	2022.5	2114.5	2166.7	2115.4	1944.5	1773.1	1763.3	1677.1	1770.3	1729.7
50°	1948.5	1968.6	2075.6	2188.8	2190.9	2075.0	1962.9	1948.1	1887.4	1990.9	1849.5
52.5°	1848.6	1887.6	2040.7	2193.9	2240.5	2187.7	2143.4	2137.0	2122.7	2203.3	1944.9
55°	1634.9	1678.1	1953.2	2195.6	2286.5	2287.6	2312.6	2314.3	2343.2	2401.8	2015.9
57.5°	1534.0	1558.4	1800.5	2203.7	2354.7	2401.0	2485.0	2498.3	2543.0	2590.3	2097.0
60°	1470.4	1499.3	1725.2	2192.6	2461.9	2549.6	2644.8	2649.3	2697.2	2784.7	2206.7
62.5°	1419.7	1448.2	1677.7	2149.8	2582.4	2728.5	2801.0	2801.4	2837.3	3016.4	2331.4
65°	1294.6	1318.6	1581.7	2101.7	2661.9	2905.4	2982.4	2979.6	3008.9	3260.7	2476.3
67.5°	1113.6	1132.0	1385.5	1919.2	2632.0	3066.2	3256.2	3247.0	3211.5	3471.8	2533.2
70°	861.0	867.6	1092.0	1599.4	2351.3	3128.0	3520.8	3516.1	3335.8	3433.9	2324.6
71°	711.7	733.5	962.4	1411.6	2163.3	3070.9	3546.5	3549.2	3304.5	3330.8	2181.1
72.5°	413.3	431.9	697.6	1084.1	1836.7	2832.6	3413.4	3433.5	3158.6	3029.6	1863.0
75°	88.6	94.8	258.6	524.7	1010.3	1985.3	2694.2	2765.9	2574.4	2061.0	1122.8
77.5°	61.6	66.5	110.8	238.1	333.9	981.0	1673.7	1754.5	1538.0	774.6	359.4
80°	48.8	54.3	86.4	117.7	90.3	316.4	784.0	833.4	513.0	172.8	60.5
82.5°	27.2	32.3	67.4	63.5	34.7	60.1	219.5	248.1	102.7	34.9	14.3
85°	7.9	9.6	43.4	46.2	14.8	11.6	37.4	46.4	19.5	9.2	6.4
87.5°	0.0	0.0	21.0	17.8	4.3	1.7	3.4	3.9	3.9	3.9	4.3
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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	922.4	923.9	918.5	911.5	904.0	894.8	885.2	877.7	877.5	873.8	870.2
5°	933.7	932.9	918.1	895.7	869.1	841.5	815.2	785.5	775.6	763.5	759.4
7.5°	954.7	948.7	917.5	868.3	810.1	752.3	692.6	632.5	606.9	583.8	579.7
10°	981.0	969.7	913.4	827.2	720.5	613.9	523.9	442.2	406.2	378.6	377.3
12.5°	1008.4	991.1	902.1	765.2	603.0	453.3	349.5	269.1	239.2	219.9	221.6
15°	1037.0	1011.2	877.7	681.5	469.3	307.6	214.8	167.5	155.5	150.6	151.9
17.5°	1066.4	1025.1	843.7	580.8	337.3	198.5	148.7	135.4	135.4	136.5	136.9
20°	1091.8	1032.6	793.6	467.8	228.7	144.6	130.1	128.1	129.2	130.9	131.1
22.5°	1117.1	1033.0	728.4	353.4	160.0	126.6	123.9	123.0	123.6	125.6	125.8
25°	1137.6	1027.8	646.7	251.3	127.7	119.4	118.1	117.7	118.1	120.4	120.4
27.5°	1145.9	1009.2	547.0	176.7	114.4	111.2	110.8	111.2	111.9	113.6	113.8
30°	1146.8	976.7	438.3	127.9	103.7	100.3	101.2	102.7	102.0	101.6	102.0
32.5°	1148.9	939.1	332.4	105.2	94.8	89.4	88.3	88.3	85.8	84.3	83.4
35°	1156.0	894.8	241.1	94.5	85.6	79.4	75.3	70.6	65.7	63.1	62.5
37.5°	1167.1	848.4	172.6	87.5	77.4	70.4	62.7	54.3	47.3	45.3	45.3
40°	1187.4	800.5	127.7	81.9	71.0	62.2	50.7	39.8	33.4	32.3	32.3
42.5°	1219.5	750.0	101.8	77.0	65.5	53.9	38.7	28.9	24.2	23.5	23.3
45°	1252.9	694.4	89.0	72.3	59.5	44.3	28.7	21.4	18.6	18.0	18.0
47.5°	1286.3	635.1	82.8	67.8	53.7	34.4	21.4	16.9	15.6	15.6	15.8
50°	1314.5	573.3	78.3	62.9	46.2	26.1	16.9	14.3	13.9	14.8	15.0
52.5°	1321.6	512.5	72.7	56.7	37.0	19.9	13.9	12.6	12.6	12.6	12.6
55°	1317.3	465.5	65.5	49.0	27.4	15.8	12.0	11.1	10.9	10.9	10.9
57.5°	1331.8	437.7	52.4	38.1	19.7	12.8	10.5	9.8	9.4	9.2	9.2
60°	1361.1	419.5	37.4	27.4	14.8	10.7	9.0	8.3	7.7	7.3	7.3
62.5°	1400.1	403.7	27.8	20.3	11.3	8.6	7.5	6.8	6.0	5.6	5.6
65°	1430.0	375.4	21.2	15.2	8.6	6.8	5.8	5.6	4.3	3.9	3.6
67.5°	1384.2	313.4	17.1	11.1	6.4	5.3	4.5	4.3	2.6	2.1	2.1
70°	1187.2	218.2	13.7	8.1	4.7	4.3	3.6	2.8	1.9	1.7	1.7
71°	1076.6	182.3	12.4	6.8	4.1	4.1	3.4	2.4	1.7	1.5	1.5
72.5°	894.4	129.4	10.5	5.3	3.6	4.3	3.6	2.1	1.7	1.5	1.3
75°	519.2	54.1	7.3	3.6	2.8	5.1	4.7	1.9	1.3	1.1	1.1
77.5°	156.2	19.9	4.1	2.4	2.1	4.5	5.3	1.7	0.6	0.2	0.2
80°	28.5	8.6	2.6	1.5	1.5	2.8	4.1	0.9	0.0	0.0	0.0
82.5°	10.1	4.3	1.5	0.9	0.6	1.3	1.9	0.0	0.0	0.0	0.0
85°	5.8	3.0	0.9	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.9	0.9	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)