

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: P323765

Luminaire Tested: **GAN-SA1C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5027 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

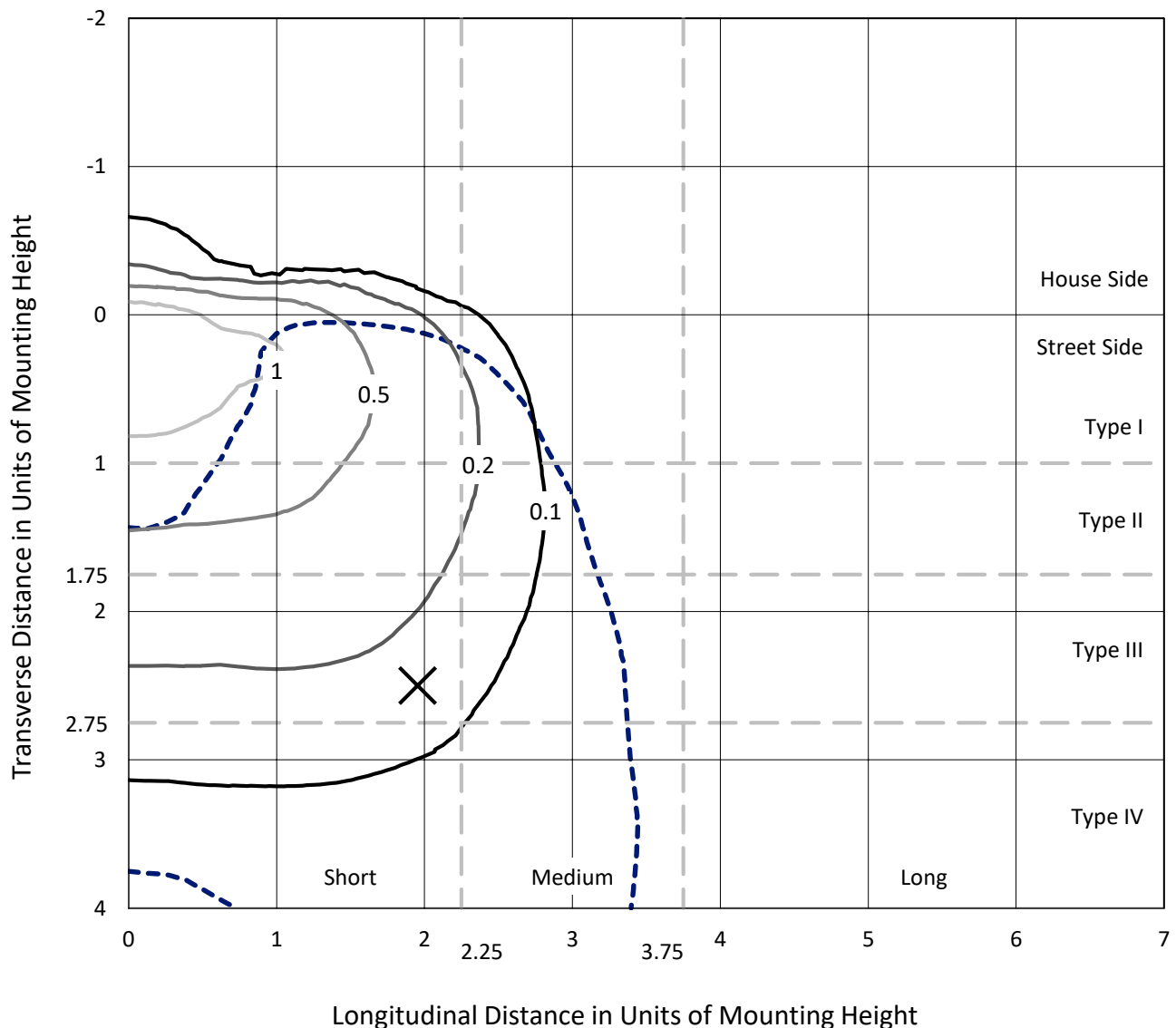
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

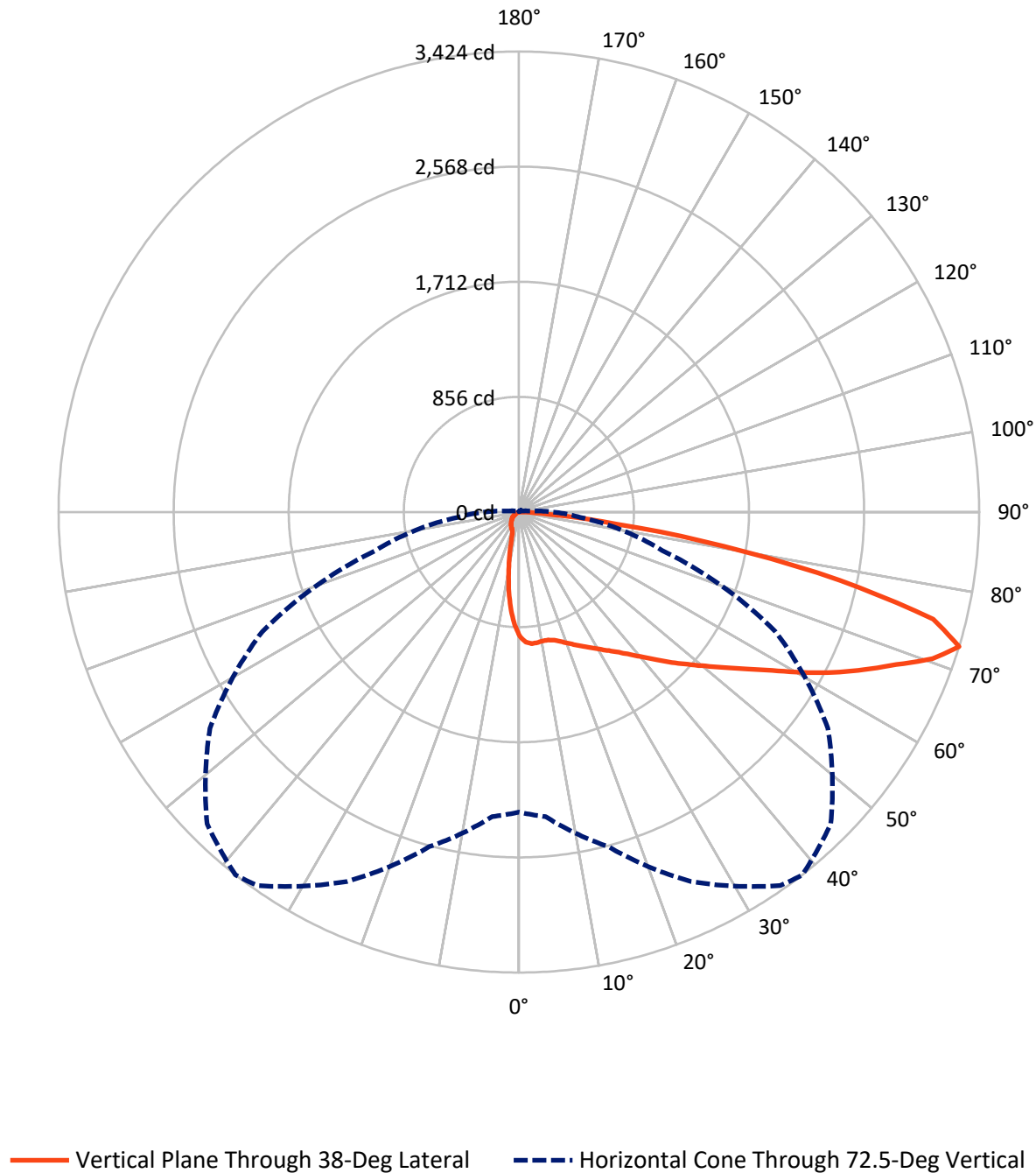
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	423.0	0.0	423.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4604.0	0.0	4604.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	5027.0	0.0	5027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.6
10°-20°	192.6	3.8
20°-30°	306.4	6.1
30°-40°	460.6	9.2
40°-50°	702.7	14.0
50°-60°	993.2	19.8
60°-70°	1245.8	24.8
70°-80°	931.5	18.5
80°-90°	115.5	2.3
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°	5027.0	100.0
0°-180°	5027.0	100.0

Coefficient of Utilization



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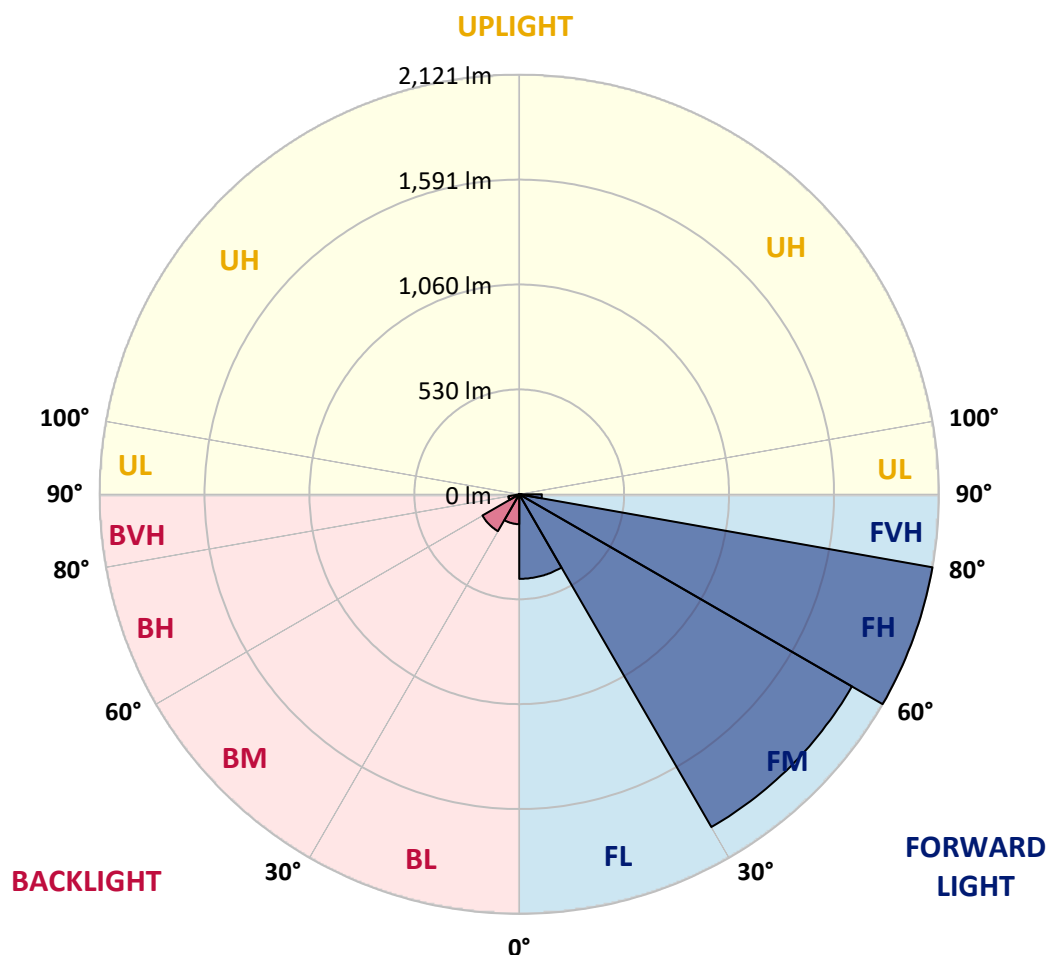
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.2	8.5			
FM	(30°-60°)	1941.7	38.6			
FH	(60°-80°)	2120.7	42.2			G2/5000
FVH	(80°-90°)	114.4	2.3			G2/225
BL	(0°-30°)	150.6	3.0	B1/500		
BM	(30°-60°)	214.8	4.3	B0/220		
BH	(60°-80°)	56.5	1.1	B0/110		G0/110
BVH	(80°-90°)	1.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4
2.5°	981.2	981.4	979.1	975.4	970.6	968.1	963.9	957.2	950.1	937.4	923.6
5°	1001.3	1001.3	998.4	993.3	985.6	983.3	975.4	964.7	950.1	929.5	906.3
7.5°	999.2	999.6	995.6	990.4	982.7	980.6	971.0	959.1	940.9	915.9	886.2
10°	988.3	989.4	986.2	983.7	976.6	974.3	965.4	953.5	935.3	908.6	874.6
12.5°	977.3	978.3	979.4	981.7	977.3	976.4	969.3	959.3	942.0	914.2	875.8
15°	970.2	972.3	979.8	988.8	989.8	989.0	984.4	975.0	957.4	928.6	884.8
17.5°	970.2	973.5	989.2	1006.3	1012.3	1013.0	1009.0	995.8	975.0	944.1	893.1
20°	978.3	982.9	1007.3	1031.5	1041.6	1041.6	1033.8	1015.5	991.0	958.1	898.8
22.5°	999.2	1005.2	1035.9	1063.9	1074.6	1072.3	1061.8	1035.1	1007.7	973.9	905.9
25°	1040.3	1044.9	1076.9	1105.0	1111.5	1106.3	1093.1	1058.9	1029.0	995.4	918.8
27.5°	1093.3	1094.0	1127.0	1150.8	1146.8	1143.2	1126.8	1088.8	1059.7	1026.1	941.2
30°	1151.6	1151.6	1180.6	1198.8	1186.7	1183.7	1167.3	1124.9	1099.0	1067.9	972.9
32.5°	1208.0	1210.5	1234.1	1245.5	1232.0	1229.0	1213.0	1170.6	1151.2	1131.6	1022.4
35°	1262.5	1264.3	1286.7	1292.9	1280.0	1280.8	1269.3	1233.4	1226.1	1223.6	1096.9
37.5°	1315.3	1315.7	1338.4	1342.4	1335.9	1343.0	1344.1	1312.3	1325.9	1346.2	1201.9
40°	1363.5	1363.9	1386.5	1396.7	1407.8	1416.9	1425.1	1408.2	1453.1	1500.0	1327.0
42.5°	1402.1	1406.5	1435.1	1454.5	1483.8	1501.3	1523.4	1522.6	1604.4	1675.0	1478.1
45°	1436.2	1443.7	1483.5	1517.6	1567.7	1595.7	1630.3	1657.5	1774.8	1869.8	1631.1
47.5°	1481.0	1488.1	1533.6	1589.4	1656.2	1692.9	1750.4	1809.0	1962.1	2061.0	1780.6
50°	1544.3	1541.2	1586.1	1666.0	1751.8	1800.0	1881.9	1969.8	2147.9	2227.6	1868.5
52.5°	1611.7	1610.5	1643.7	1749.3	1864.6	1920.9	2029.1	2136.0	2325.5	2342.4	1908.8
55°	1695.2	1686.3	1714.2	1844.3	1998.4	2058.9	2186.3	2300.5	2467.1	2407.2	1929.1
57.5°	1782.7	1767.9	1794.6	1950.2	2149.3	2220.9	2360.4	2460.8	2561.2	2451.4	1928.9
60°	1873.1	1855.6	1887.3	2082.5	2336.8	2419.7	2549.1	2569.2	2649.1	2473.8	1914.7
62.5°	1948.7	1938.3	1985.4	2224.1	2546.2	2627.6	2691.7	2667.7	2723.2	2491.1	1881.5
65°	2028.7	2029.3	2105.5	2389.2	2768.8	2823.7	2829.1	2795.5	2785.2	2487.5	1769.1
67.5°	2136.8	2146.8	2274.0	2613.4	2985.3	3027.6	3027.2	2933.9	2830.6	2346.4	1520.1
70°	2251.2	2274.8	2468.1	2870.0	3221.6	3264.6	3242.5	3022.0	2665.2	1897.3	1075.8
72.5°	2232.0	2272.9	2576.1	3031.8	3391.3	3424.1	3280.2	2805.5	2106.5	1102.7	458.0
75°	1722.0	1769.4	2362.1	2871.5	3213.2	3183.8	2818.4	2183.1	1151.2	307.7	103.1
77.5°	909.6	934.9	1560.4	2187.5	2505.5	2443.9	1985.4	1211.1	350.9	76.2	46.3
80°	476.4	482.3	680.0	1241.2	1546.4	1546.8	1176.6	532.0	144.7	39.0	31.1
82.5°	255.1	260.1	359.3	573.5	810.2	734.5	450.5	292.7	84.1	22.1	29.9
85°	61.4	62.4	203.8	262.0	318.6	227.6	133.8	245.7	22.8	12.9	24.2
87.5°	23.6	24.0	75.6	113.4	81.2	52.6	62.6	91.7	2.9	5.0	3.8
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°	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4	924.4
2.5°	915.3	909.8	896.5	879.6	864.5	853.7	837.4	826.7	819.6	819.4	816.7
5°	892.1	881.0	852.2	818.0	786.9	758.9	725.9	699.8	680.4	677.3	670.6
7.5°	867.2	849.1	804.8	751.4	699.2	646.2	584.6	546.4	513.6	497.9	496.3
10°	852.0	826.5	763.7	686.4	604.6	518.4	437.8	382.1	341.8	330.3	321.7
12.5°	848.9	815.3	732.0	625.5	508.6	394.6	305.4	246.1	214.0	203.8	201.0
15°	852.0	810.0	705.2	565.1	411.3	280.0	205.0	170.6	158.5	155.5	155.3
17.5°	853.9	803.8	675.0	498.1	316.9	200.0	157.0	147.0	145.1	144.9	145.3
20°	853.7	794.2	638.8	423.4	235.7	157.2	142.0	139.9	139.5	139.7	139.5
22.5°	852.2	782.9	599.2	346.4	178.1	140.5	135.5	134.2	134.0	134.0	134.0
25°	854.9	773.9	555.5	272.7	146.8	132.8	129.6	128.6	128.4	128.4	128.0
27.5°	864.7	768.9	507.7	209.8	132.6	125.9	123.4	123.2	122.6	122.3	122.8
30°	880.6	768.9	455.3	163.3	124.0	118.8	116.9	116.5	116.3	116.1	116.3
32.5°	908.6	774.8	398.1	135.7	115.9	110.9	109.6	110.2	109.6	109.6	109.6
35°	959.1	792.3	338.2	118.4	107.3	103.1	101.9	102.7	102.3	102.3	102.1
37.5°	1032.8	824.9	277.9	107.9	99.8	95.4	93.7	95.0	94.6	94.6	94.4
40°	1122.6	872.3	220.5	100.0	92.5	87.9	86.4	87.1	86.0	86.0	86.4
42.5°	1233.4	932.4	170.4	92.3	85.2	80.8	80.0	79.3	77.5	76.4	76.6
45°	1356.6	995.0	132.8	84.8	78.3	74.7	73.5	71.8	68.7	66.6	66.8
47.5°	1466.6	1043.2	107.9	77.5	72.0	69.3	67.4	64.3	59.7	57.2	57.4
50°	1524.5	1050.5	91.9	70.1	66.2	63.5	60.8	56.0	50.5	47.8	47.6
52.5°	1539.3	1016.3	80.0	63.5	60.3	57.2	53.7	47.2	41.1	38.2	37.8
55°	1544.7	964.1	69.3	57.2	54.1	50.5	45.9	38.6	33.0	30.1	29.9
57.5°	1526.8	886.2	61.0	51.6	47.8	43.4	37.8	30.9	25.5	23.2	23.2
60°	1486.9	780.8	54.5	45.5	41.3	36.3	30.5	24.0	19.0	17.1	17.1
62.5°	1407.3	644.3	48.4	39.2	35.3	30.1	24.6	18.2	13.4	12.3	12.5
65°	1257.2	488.7	42.4	33.6	30.1	24.8	19.2	12.9	9.0	9.0	9.4
67.5°	1025.3	339.5	36.1	28.6	25.9	20.3	14.6	9.0	6.3	7.1	7.9
70°	678.7	190.4	30.9	23.6	22.1	16.1	10.9	6.1	5.0	6.7	8.1
72.5°	256.2	74.1	25.9	19.0	19.2	12.3	7.7	4.6	4.6	7.3	9.6
75°	71.4	36.3	18.6	14.0	15.0	9.0	5.6	4.0	4.4	8.4	11.3
77.5°	42.0	26.7	12.1	8.1	10.2	6.3	3.8	3.1	3.8	7.1	10.9
80°	33.8	14.2	7.1	4.2	5.6	3.5	2.5	1.9	1.0	2.7	5.6
82.5°	33.8	8.6	3.3	2.9	2.9	1.9	1.3	0.8	0.2	0.0	1.5
85°	22.8	3.5	2.1	1.9	1.5	0.6	0.4	0.2	0.0	0.0	0.0
87.5°	3.8	1.5	0.8	0.4	0.2	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)