

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: P318335

Luminaire Tested: **GAN-SA1D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6794 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

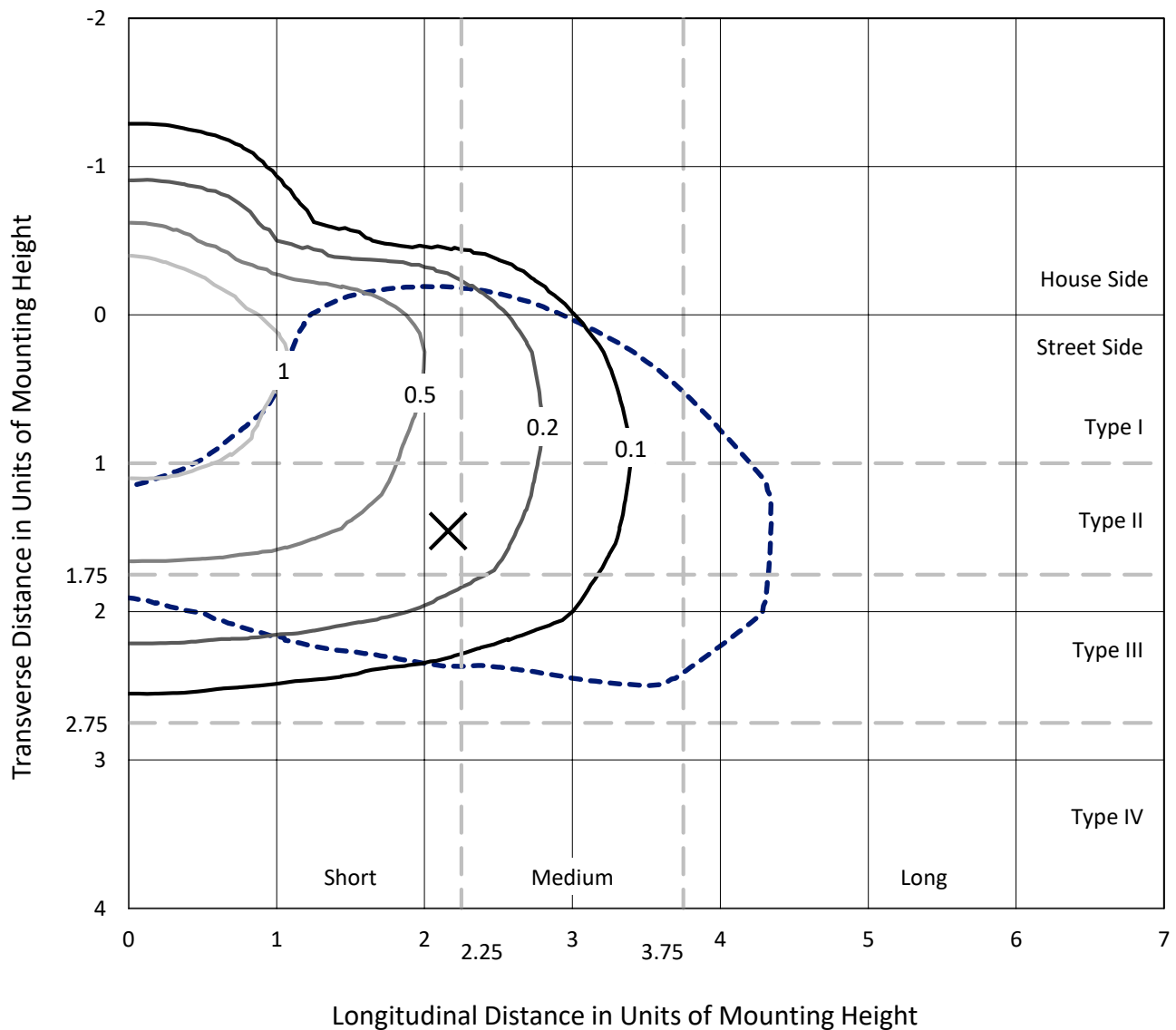
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

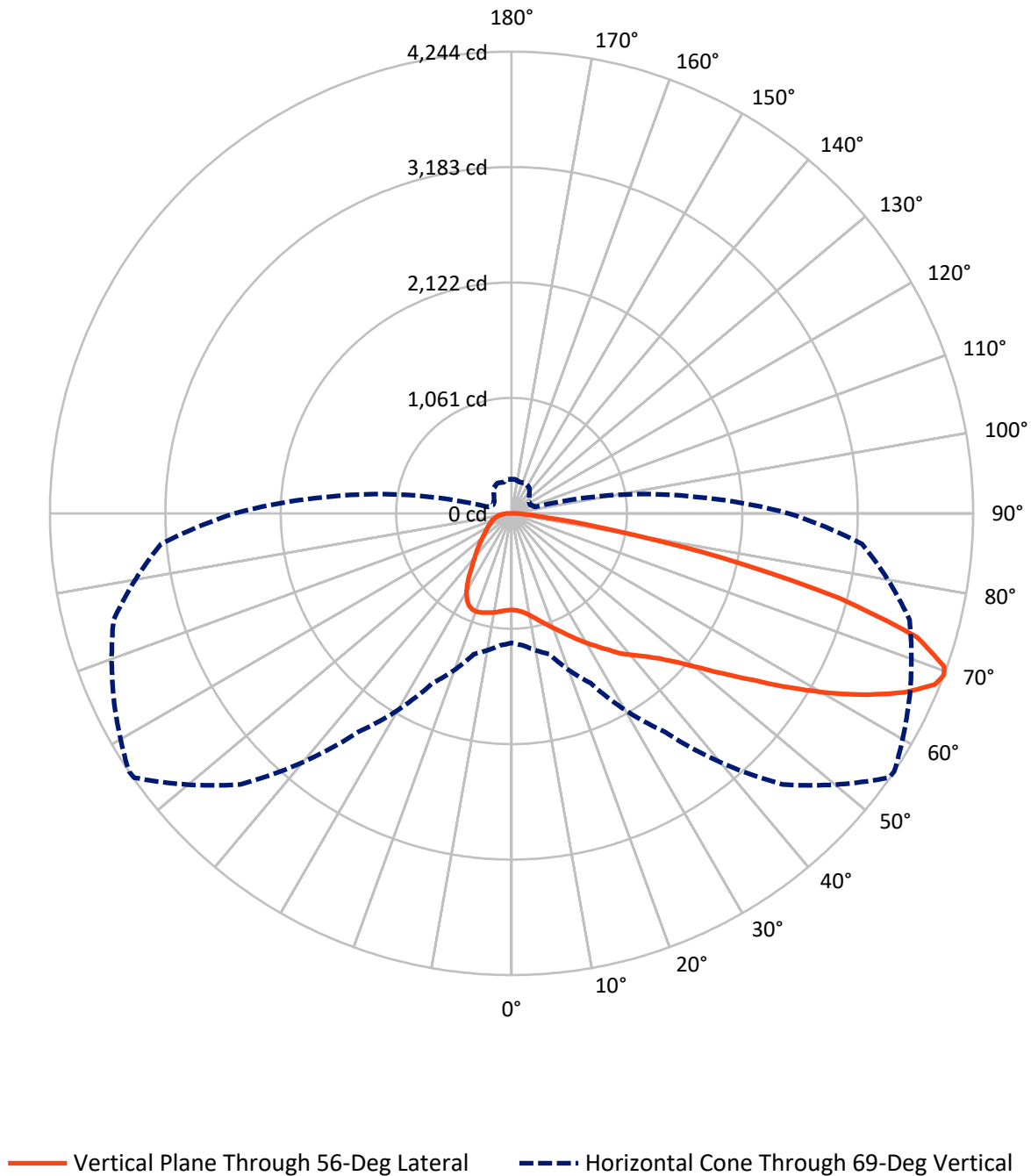
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.0	0.0	1513.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5281.0	0.0	5281.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	6794.0	0.0	6794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.3
10°-20°	280.5	4.1
20°-30°	489.7	7.2
30°-40°	703.4	10.4
40°-50°	973.5	14.3
50°-60°	1426.3	21.0
60°-70°	1738.9	25.6
70°-80°	961.4	14.2
80°-90°	133.2	2.0
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°	6794.0	100.0
0°-180°	6794.0	100.0

Coefficient of Utilization



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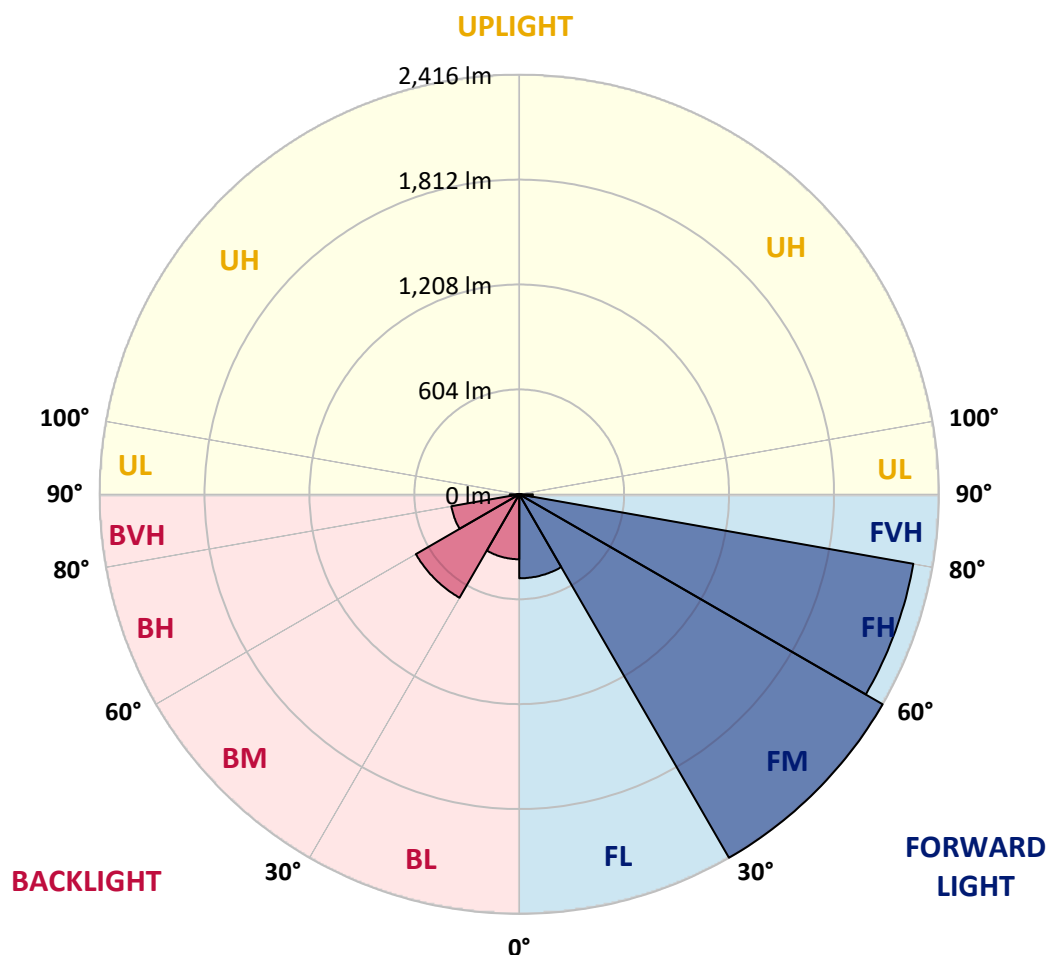
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.5	7.1			
FM	(30°-60°)	2415.5	35.6			
FH	(60°-80°)	2303.5	33.9			G2/5000
FVH	(80°-90°)	78.4	1.2			G1/100
BL	(0°-30°)	373.9	5.5	B1/500		
BM	(30°-60°)	687.6	10.1	B1/1000		
BH	(60°-80°)	396.8	5.8	B1/500		G1/500
BVH	(80°-90°)	54.7	0.8			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2
2.5°	893.8	894.8	894.1	895.9	893.8	895.2	894.1	894.1	893.4	891.3	888.9
5°	907.9	909.7	908.6	910.4	907.9	908.3	906.2	906.2	904.1	899.7	895.0
7.5°	929.9	932.0	931.0	932.9	929.4	929.4	926.6	926.4	922.2	914.9	909.5
10°	956.1	958.9	958.0	960.8	958.0	958.9	956.1	956.1	950.5	940.2	933.4
12.5°	994.2	997.7	995.2	994.9	993.8	995.6	993.3	992.8	987.7	973.6	964.3
15°	1045.3	1049.0	1043.6	1043.2	1036.6	1035.9	1035.9	1035.2	1031.9	1015.1	999.6
17.5°	1104.0	1105.2	1100.5	1093.0	1084.6	1079.2	1078.5	1080.4	1080.4	1060.7	1036.1
20°	1161.6	1163.7	1159.9	1151.5	1140.8	1132.8	1127.2	1130.9	1130.7	1107.3	1072.4
22.5°	1224.3	1229.2	1223.6	1212.8	1200.2	1191.3	1181.5	1184.8	1185.0	1156.2	1108.0
25°	1305.5	1301.1	1297.6	1282.4	1264.3	1255.2	1246.1	1249.3	1248.4	1208.9	1144.7
27.5°	1377.4	1378.3	1373.6	1357.5	1336.6	1316.5	1316.1	1318.2	1314.6	1263.6	1179.4
30°	1460.9	1461.4	1454.8	1440.3	1417.6	1391.7	1385.6	1389.1	1381.6	1315.6	1215.9
32.5°	1544.0	1546.4	1539.1	1521.5	1503.3	1471.7	1459.5	1461.9	1443.1	1368.7	1253.6
35°	1616.8	1620.1	1617.7	1606.0	1586.1	1559.0	1544.5	1543.1	1519.9	1433.8	1303.4
37.5°	1691.0	1694.0	1691.5	1681.6	1673.7	1644.9	1637.2	1637.2	1596.9	1500.2	1366.8
40°	1767.3	1772.0	1768.9	1755.4	1748.6	1735.5	1717.0	1712.5	1669.0	1580.1	1470.3
42.5°	1838.2	1844.3	1856.5	1848.5	1834.7	1836.6	1799.4	1797.0	1765.2	1698.0	1600.2
45°	1938.9	1947.7	1968.3	1962.3	1959.5	1949.2	1904.9	1902.8	1890.6	1856.7	1761.4
47.5°	2048.6	2060.8	2098.0	2099.2	2129.4	2109.9	2049.8	2042.5	2045.3	2046.8	1958.3
50°	2149.7	2163.1	2224.2	2252.9	2324.1	2328.3	2232.1	2225.6	2236.6	2268.9	2187.6
52.5°	2230.5	2247.3	2323.6	2412.6	2534.5	2569.1	2456.6	2451.7	2459.8	2515.6	2447.0
55°	2289.7	2308.0	2391.0	2553.0	2747.7	2808.8	2715.0	2710.3	2715.4	2786.3	2729.0
57.5°	2303.5	2308.0	2428.5	2647.6	2927.7	3074.5	3031.2	3021.8	2996.5	3058.3	3040.3
60°	2238.7	2256.5	2397.6	2680.8	3067.0	3336.4	3361.6	3349.9	3279.0	3329.6	3315.1
62.5°	2107.1	2139.0	2282.2	2630.2	3121.5	3550.3	3685.8	3671.7	3549.6	3582.3	3512.6
65°	1892.3	1905.9	2056.3	2455.9	3052.2	3687.2	3974.8	3967.8	3814.1	3762.8	3549.1
67.5°	1508.0	1533.5	1661.3	2091.5	2768.8	3671.0	4198.4	4197.7	3986.8	3829.7	3419.7
69°	1191.3	1217.8	1339.5	1722.8	2450.0	3523.4	4235.8	4244.0	4035.5	3789.0	3234.8
70°	949.8	980.4	1064.0	1451.1	2167.1	3328.6	4204.7	4219.4	4026.1	3721.8	3064.2
72.5°	404.2	429.0	488.5	748.0	1320.7	2485.6	3844.5	3900.2	3809.1	3406.3	2532.4
75°	176.5	184.2	211.1	305.0	586.3	1352.8	3011.7	3114.7	3257.0	2879.3	1886.4
77.5°	129.2	132.5	147.2	179.0	263.1	510.9	1936.7	1996.7	2348.9	2095.2	1157.1
80°	99.9	102.3	113.7	131.5	171.8	206.7	883.3	934.8	1320.7	1076.2	481.9
82.5°	79.6	81.2	89.2	96.9	118.7	125.2	293.3	325.3	487.5	297.2	127.6
85°	74.0	75.8	78.6	70.7	76.1	73.5	126.9	132.7	147.2	116.8	53.4
87.5°	33.5	39.6	77.9	55.0	40.5	32.3	52.0	54.3	61.1	61.3	23.6
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°	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2	888.2
2.5°	890.3	889.6	890.8	888.0	891.5	891.3	890.1	890.6	892.9	892.7	892.9
5°	895.7	895.2	896.6	894.5	898.7	900.1	900.4	902.5	905.1	905.8	905.8
7.5°	909.3	909.3	910.0	907.2	910.0	909.7	908.6	910.7	913.3	913.5	913.3
10°	932.7	932.9	931.7	924.5	922.2	915.8	910.0	910.2	913.5	916.1	916.8
12.5°	962.2	961.2	956.1	942.7	932.9	920.0	914.0	913.7	917.0	919.1	919.8
15°	995.9	993.3	980.0	958.2	940.9	928.2	918.4	916.1	914.2	911.9	912.1
17.5°	1027.7	1021.9	999.6	969.4	951.2	934.3	915.4	900.1	889.6	883.5	881.7
20°	1060.0	1048.5	1016.5	980.0	956.8	926.1	889.6	858.7	839.5	830.6	829.0
22.5°	1089.5	1071.0	1032.2	991.0	952.3	898.5	841.2	796.2	769.6	757.6	758.6
25°	1118.3	1092.5	1048.5	998.7	929.9	849.8	773.8	718.5	687.6	674.3	673.8
27.5°	1143.6	1114.3	1066.3	992.4	888.0	780.6	694.0	640.1	614.4	602.9	601.0
30°	1172.6	1141.7	1090.0	968.3	826.7	700.5	616.0	578.1	559.8	548.4	546.3
32.5°	1207.9	1178.9	1109.4	924.5	748.3	617.0	555.2	528.7	512.1	499.2	496.9
35°	1259.4	1228.1	1114.3	861.8	662.1	550.9	510.5	483.3	460.8	444.2	442.6
37.5°	1324.0	1289.6	1103.1	780.6	578.6	508.1	473.2	439.8	410.5	387.1	383.4
40°	1417.2	1365.2	1071.9	686.9	517.0	475.1	437.0	398.8	362.5	335.2	329.8
42.5°	1529.0	1453.9	1024.2	593.8	471.8	441.6	400.9	353.6	319.0	299.6	296.8
45°	1671.3	1546.1	958.0	512.3	427.4	408.2	362.1	318.5	297.0	282.7	280.4
47.5°	1833.8	1649.6	888.4	446.1	389.7	376.8	330.9	302.9	285.8	274.5	272.4
50°	2033.4	1766.4	814.7	391.8	351.8	339.1	316.2	294.2	280.6	272.0	269.9
52.5°	2258.6	1898.1	761.6	349.0	320.4	311.3	308.5	289.5	278.5	272.0	269.9
55°	2501.0	2032.2	704.3	312.9	293.3	295.8	303.3	290.0	282.5	274.5	271.5
57.5°	2743.7	2170.8	640.4	282.5	271.7	284.4	299.8	290.9	284.6	276.9	274.1
60°	2935.7	2258.6	541.4	257.0	254.6	271.7	291.4	283.9	275.7	275.9	275.5
62.5°	3025.3	2253.9	432.1	234.3	237.6	254.6	277.8	272.9	266.1	275.2	275.9
65°	2975.0	2141.5	336.3	213.7	219.3	236.9	263.8	267.5	269.9	287.4	289.8
67.5°	2763.9	1922.9	260.5	195.7	202.7	224.7	265.2	291.4	294.4	312.9	312.7
69°	2545.5	1717.9	226.3	186.3	194.5	227.7	283.4	306.6	295.1	314.8	312.0
70°	2362.5	1555.7	208.1	180.0	190.7	233.1	295.6	306.4	291.6	308.5	303.8
72.5°	1819.5	1119.2	176.5	168.3	178.1	223.0	299.1	299.6	283.4	286.7	278.8
75°	1247.9	707.3	154.0	152.4	158.9	201.0	287.9	286.2	262.1	257.5	250.9
77.5°	688.1	359.3	130.8	137.2	141.6	178.1	261.7	259.3	239.4	229.6	227.3
80°	265.4	157.3	110.5	121.9	124.7	154.2	229.4	227.3	210.6	198.0	194.5
82.5°	100.2	82.4	91.3	105.6	104.6	127.3	194.3	193.1	176.9	158.5	152.8
85°	46.3	49.4	72.3	87.1	80.3	94.3	155.4	157.5	137.9	115.9	115.9
87.5°	19.7	27.6	51.3	65.8	54.1	63.7	114.0	108.8	99.9	69.3	65.1
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)