

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: P233945

Luminaire Tested: **VERD-G-C028-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T4-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10523 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

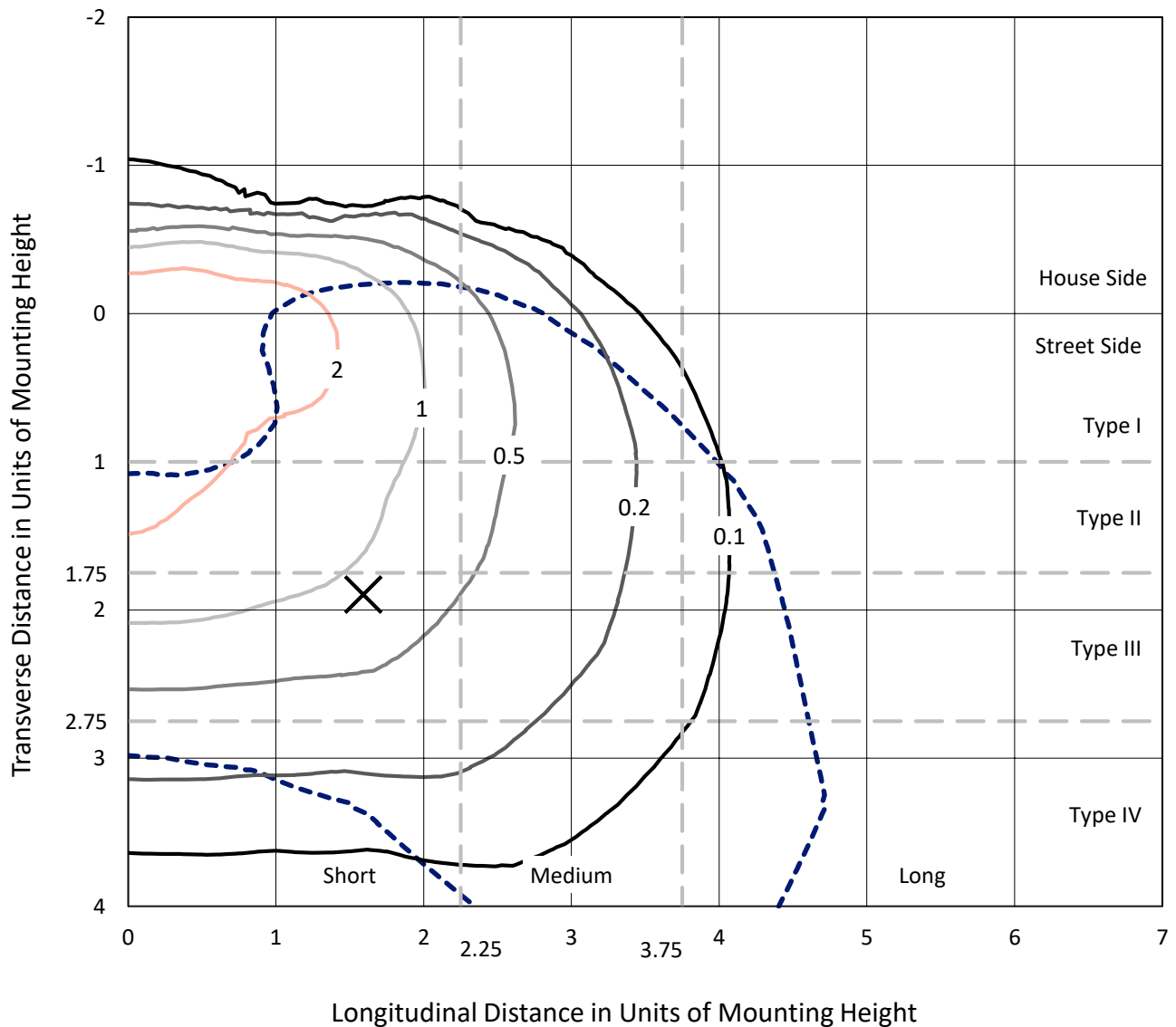
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

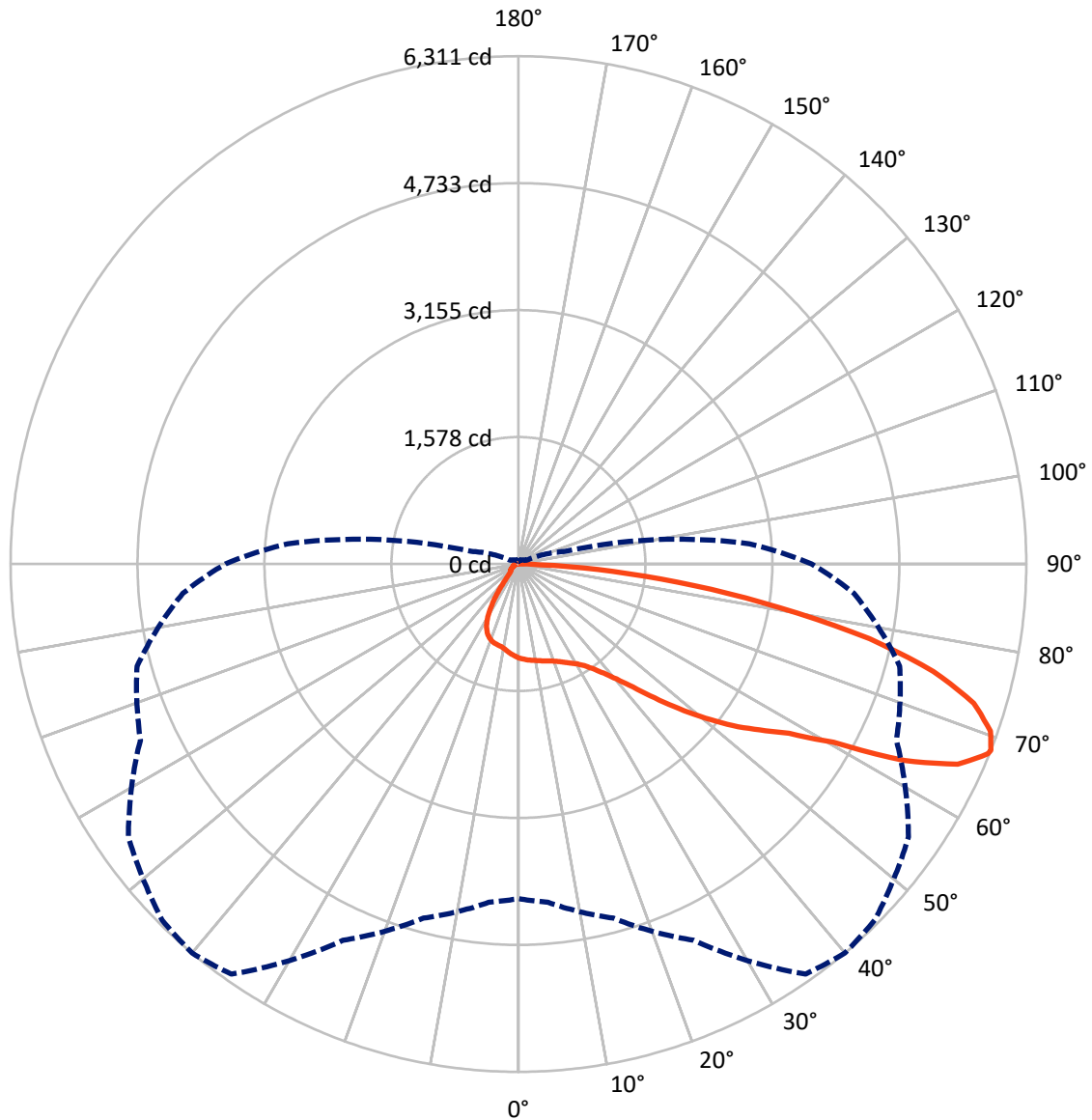
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1707.0	0.0	1707.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	8816.0	0.0	8816.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	10523.0	0.0	10523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.1
10°-20°	332.3	3.2
20°-30°	557.7	5.3
30°-40°	825.9	7.8
40°-50°	1397.2	13.3
50°-60°	2132.3	20.3
60°-70°	2792.0	26.5
70°-80°	2007.3	19.1
80°-90°	367.4	3.5
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°	10523.0	100.0
0°-180°	10523.0	100.0

Coefficient of Utilization



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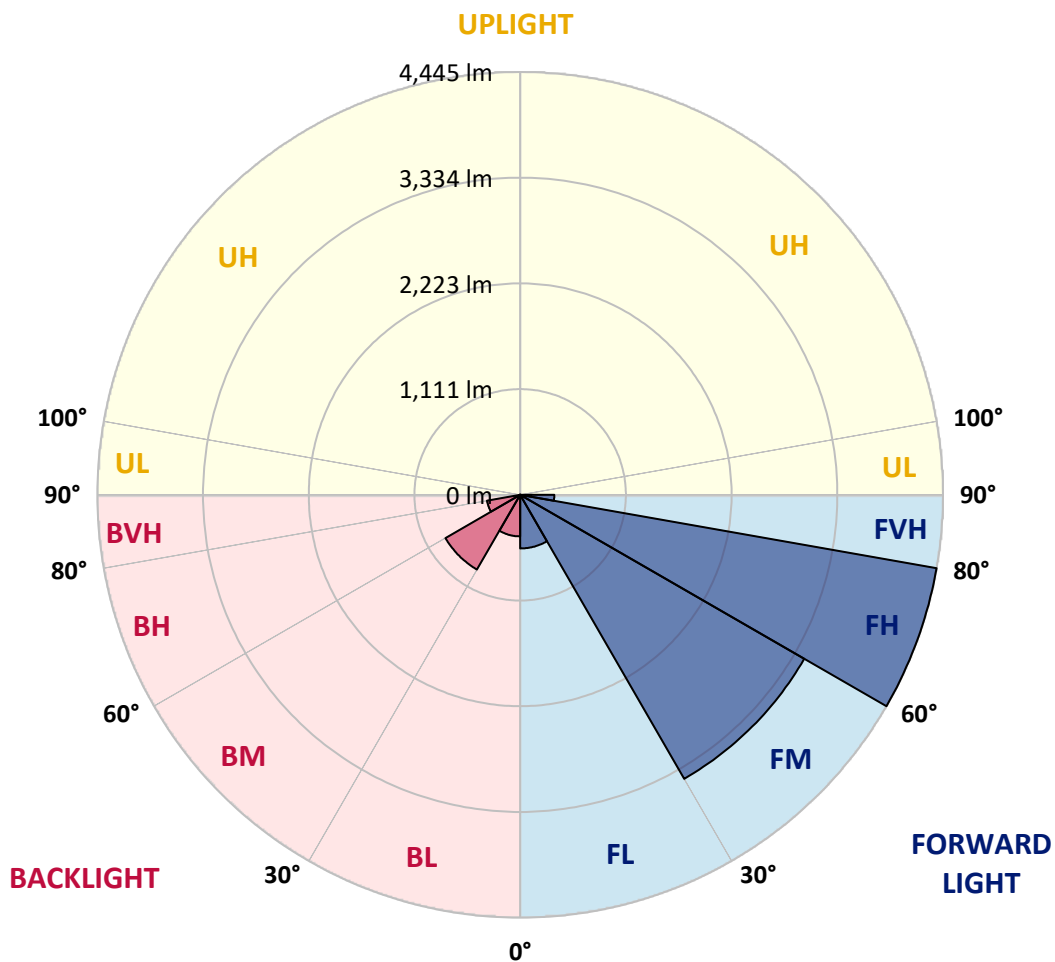
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.1	5.4			
FM	(30°-60°)	3448.1	32.8			
FH	(60°-80°)	4445.1	42.2			G2/5000
FVH	(80°-90°)	358.7	3.4			G3/500
BL	(0°-30°)	436.7	4.2	B1/500		
BM	(30°-60°)	907.3	8.6	B1/1000		
BH	(60°-80°)	354.3	3.4	B1/500		G1/500
BVH	(80°-90°)	8.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1206.3	1209.0	1205.4	1196.6	1186.9	1181.6	1180.8	1179.9	1175.5	1169.3	1160.5
5°	1218.7	1219.5	1216.0	1209.0	1200.1	1198.4	1195.7	1196.6	1194.0	1187.8	1178.1
7.5°	1223.9	1225.7	1221.3	1214.2	1207.2	1207.2	1206.3	1209.0	1207.2	1204.6	1193.1
10°	1222.2	1224.8	1222.2	1219.5	1216.9	1219.5	1217.8	1223.9	1224.8	1224.8	1211.6
12.5°	1219.5	1223.1	1223.9	1226.6	1231.0	1233.6	1237.2	1250.4	1256.5	1260.9	1250.4
15°	1222.2	1223.9	1231.0	1235.4	1244.2	1250.4	1258.3	1280.3	1290.9	1303.2	1298.0
17.5°	1233.6	1238.0	1248.6	1253.0	1261.8	1266.2	1275.9	1303.2	1324.4	1346.4	1349.9
20°	1258.3	1260.9	1278.6	1280.3	1284.7	1289.1	1299.7	1329.7	1361.4	1393.1	1401.9
22.5°	1285.6	1291.8	1308.5	1305.9	1314.7	1316.5	1326.2	1358.8	1402.8	1441.6	1461.0
25°	1313.8	1319.1	1335.8	1337.6	1348.2	1355.2	1366.7	1398.4	1454.8	1504.2	1538.5
27.5°	1337.6	1348.2	1364.0	1365.8	1386.1	1394.9	1411.6	1447.8	1515.6	1576.4	1632.8
30°	1381.7	1384.3	1399.3	1404.6	1431.9	1439.8	1459.2	1505.0	1587.9	1663.6	1751.8
32.5°	1436.3	1435.4	1449.5	1458.3	1491.8	1505.9	1530.6	1583.5	1675.1	1769.4	1894.5
35°	1536.8	1527.9	1536.8	1545.6	1584.3	1599.3	1625.8	1705.1	1812.6	1972.9	2127.1
37.5°	1767.6	1754.4	1735.9	1691.8	1701.5	1720.9	1759.7	1867.2	2025.8	2323.6	2472.6
40°	2167.7	2138.6	2061.0	1944.7	1876.0	1877.8	1913.9	2054.9	2287.5	2725.4	2837.4
42.5°	2529.8	2509.6	2416.2	2256.7	2098.1	2089.2	2101.6	2266.4	2573.0	3098.2	3156.3
45°	2870.8	2880.5	2744.8	2619.7	2430.3	2372.1	2357.1	2491.9	2889.3	3430.4	3435.7
47.5°	3186.3	3202.2	3038.3	2920.2	2733.4	2683.2	2636.5	2729.0	3188.1	3713.2	3670.1
50°	3525.5	3537.9	3310.5	3213.6	3056.8	3010.1	2974.8	3015.4	3493.8	3975.8	3878.9
52.5°	3994.3	3925.6	3640.1	3479.7	3340.5	3337.0	3309.7	3335.2	3841.9	4212.0	4037.5
55°	4547.7	4367.9	4064.8	3808.4	3629.5	3639.2	3606.6	3648.9	4186.4	4414.6	4184.7
57.5°	4743.3	4738.9	4597.9	4352.1	3989.0	3967.0	3910.6	3958.2	4484.3	4604.1	4288.6
60°	5014.7	5038.5	5054.4	4906.3	4696.6	4496.6	4308.0	4303.6	4761.8	4776.8	4339.7
62.5°	5190.1	5212.1	5335.5	5316.1	5445.6	5379.5	5164.5	4687.8	4974.2	4888.7	4359.1
65°	4862.3	4916.9	5228.0	5465.0	5906.5	5999.0	5968.1	5278.2	5118.7	4921.3	4323.0
67.5°	4269.3	4340.6	4681.6	5235.9	6192.0	6295.1	6238.7	5873.0	5181.3	4907.2	4223.4
68°	4158.2	4219.9	4554.8	5159.2	6221.0	6310.9	6259.8	5917.0	5183.9	4905.5	4185.5
70°	3624.2	3674.5	4001.4	4766.2	6140.0	6223.7	6216.6	5958.5	5161.0	4850.8	3930.9
72.5°	2811.8	2862.0	3151.9	3952.9	5765.5	5918.8	5912.6	5792.8	5118.7	4572.4	3295.6
75°	2032.9	2088.4	2352.7	3037.4	4989.2	5326.7	5394.5	5509.1	4679.0	3848.1	2344.8
77.5°	1468.0	1508.6	1736.8	2294.6	4075.4	4461.3	4598.8	4714.2	3829.6	2804.8	1115.6
80°	979.0	1008.1	1228.3	1705.9	3070.0	3297.3	3445.4	3252.4	2179.1	1014.2	120.7
82.5°	602.7	621.2	794.8	1196.6	2123.6	2195.0	2195.9	1735.0	702.3	96.9	65.2
85°	323.4	329.6	431.8	652.9	1121.7	1175.5	1154.3	728.7	141.9	52.0	35.2
87.5°	52.0	56.4	135.7	245.0	346.3	267.0	170.9	53.8	14.1	7.9	5.3
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°	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1164.9	1162.3	1155.2	1151.7	1142.9	1145.5	1145.5	1138.5	1142.0	1156.1	1154.3
5°	1175.5	1176.4	1159.6	1150.8	1131.4	1126.1	1118.2	1107.6	1106.7	1116.4	1117.3
7.5°	1184.3	1188.7	1164.9	1147.3	1120.8	1102.3	1086.5	1068.0	1063.6	1069.7	1069.7
10°	1198.4	1202.8	1172.8	1148.2	1109.4	1079.4	1052.1	1028.3	1018.6	1018.6	1019.5
12.5°	1235.4	1232.8	1198.4	1160.5	1114.7	1067.1	1023.9	992.2	969.3	968.4	964.9
15°	1286.5	1276.8	1243.3	1186.1	1127.0	1066.2	1006.3	956.9	917.3	906.7	902.3
17.5°	1341.1	1328.8	1288.3	1218.7	1146.4	1065.3	986.0	917.3	851.2	825.7	817.7
20°	1400.2	1385.2	1343.8	1256.5	1165.8	1059.2	956.1	860.0	770.1	721.7	709.3
22.5°	1465.4	1453.0	1402.8	1295.3	1179.0	1045.9	909.4	787.8	673.2	603.6	598.3
25°	1550.0	1538.5	1464.5	1329.7	1179.9	1021.3	847.7	695.2	551.6	469.7	452.9
27.5°	1651.3	1631.0	1513.8	1350.8	1165.8	978.1	767.5	571.9	409.7	341.0	339.2
30°	1761.5	1724.4	1553.5	1356.1	1134.1	909.4	657.4	420.3	290.8	244.1	244.1
32.5°	1891.0	1823.1	1594.0	1347.3	1082.1	814.2	503.1	291.7	200.0	178.0	178.0
35°	2080.4	1975.6	1646.0	1325.3	1008.9	682.9	357.8	193.0	157.7	155.1	155.1
37.5°	2380.0	2205.6	1716.5	1288.3	908.5	520.8	232.6	148.9	150.7	150.7	149.8
40°	2699.0	2471.7	1813.4	1229.2	782.5	359.5	152.4	141.0	143.6	145.4	144.5
42.5°	2987.2	2724.6	1919.2	1149.9	633.6	226.5	139.2	135.7	133.9	135.7	136.6
45°	3236.5	2944.0	2025.8	1046.8	467.9	148.0	135.7	127.8	122.5	123.4	124.2
47.5°	3449.8	3116.7	2098.1	938.4	310.2	131.3	131.3	117.2	111.9	111.9	111.9
50°	3636.6	3270.0	2142.1	808.9	185.0	129.5	123.4	107.5	102.2	101.3	102.2
52.5°	3772.3	3377.5	2136.8	651.2	124.2	125.1	112.8	98.7	92.5	94.3	95.2
55°	3879.8	3445.4	2090.1	476.7	116.3	117.2	104.9	89.0	84.6	85.5	85.5
57.5°	3947.6	3462.1	1995.0	310.2	113.7	104.9	94.3	79.3	74.0	74.0	74.0
60°	3969.7	3453.3	1865.4	198.3	112.8	94.3	85.5	71.4	66.1	66.1	66.1
62.5°	3951.2	3402.2	1646.0	142.7	104.9	88.1	77.5	63.4	58.2	56.4	56.4
65°	3885.1	3265.6	1268.9	118.1	94.3	81.1	70.5	57.3	50.2	47.6	46.7
67.5°	3692.1	2969.5	738.4	111.0	85.5	74.0	65.2	52.0	44.1	39.7	38.8
68°	3641.9	2881.4	607.1	110.1	85.5	73.1	64.3	50.2	42.3	37.9	37.0
70°	3282.3	2324.5	174.5	104.9	83.7	70.5	59.0	45.8	37.9	32.6	31.7
72.5°	2471.7	1362.3	109.3	93.4	82.8	62.6	57.3	45.8	33.5	28.2	26.4
75°	1379.9	310.2	92.5	69.6	77.5	61.7	56.4	41.4	30.0	22.9	22.0
77.5°	283.7	89.9	79.3	48.5	59.0	53.8	47.6	35.2	27.3	17.6	16.7
80°	80.2	67.0	70.5	35.2	33.5	37.9	35.2	30.8	20.3	13.2	13.2
82.5°	52.0	49.3	63.4	23.8	17.6	17.6	22.9	18.5	17.6	10.6	10.6
85°	31.7	41.4	30.8	10.6	8.8	7.0	7.9	7.9	10.6	7.0	7.0
87.5°	4.4	4.4	4.4	4.4	4.4	3.5	2.6	2.6	2.6	3.5	3.5
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)