

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: P233786

Luminaire Tested: **VERD-C029-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233786
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-C029-D-U-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10068 lumens
Efficiency: N/A
Efficacy: 124.3 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

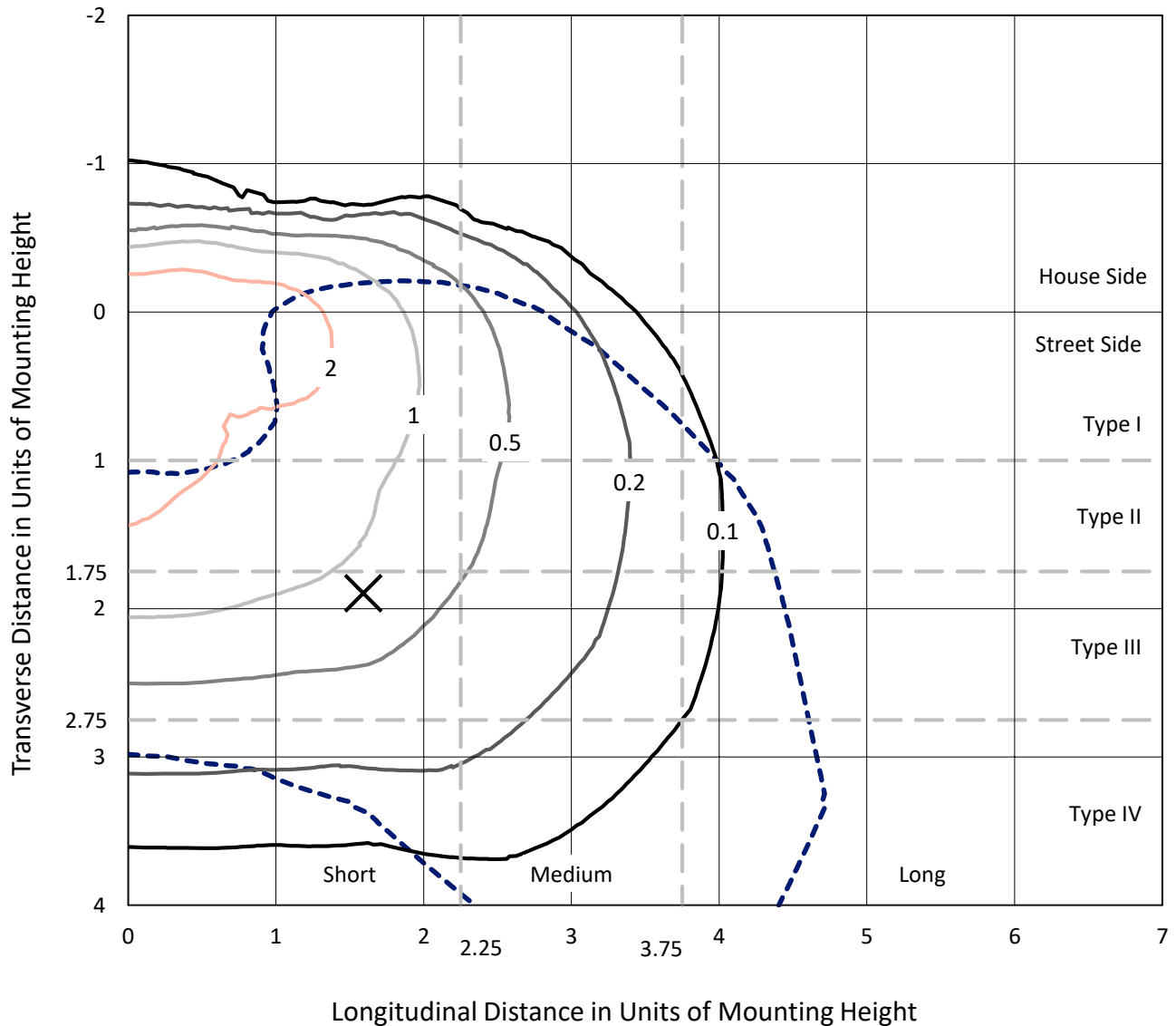
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233786
 CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

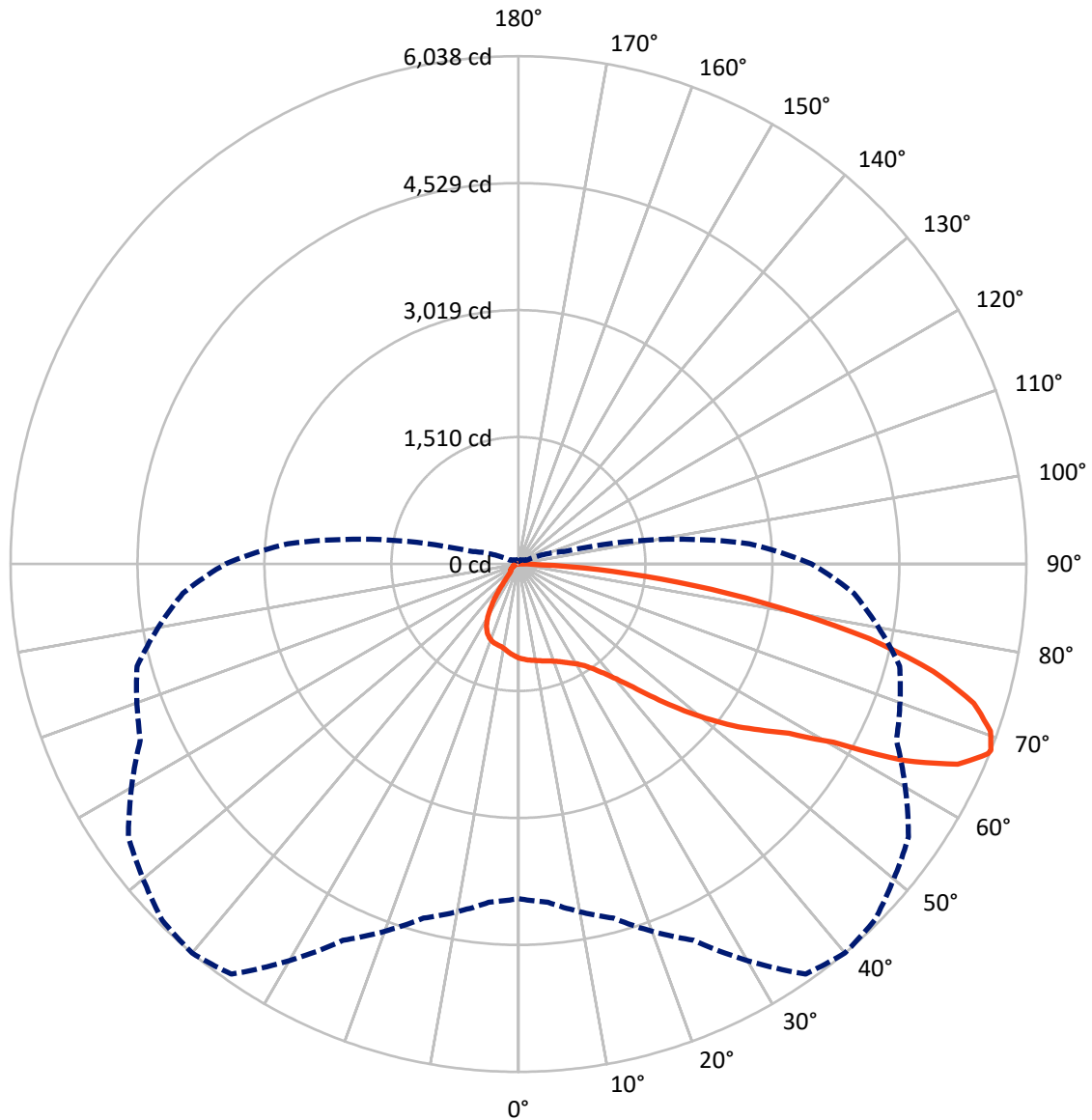
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233786
CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233786

CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.2	0.0	1633.2
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	8434.8	0.0	8434.8
	% Fixture	83.8	0.0	83.8
Total	Lumens	10068.0	0.0	10068.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	1.1
10°-20°	317.9	3.2
20°-30°	533.5	5.3
30°-40°	790.2	7.8
40°-50°	1336.8	13.3
50°-60°	2040.1	20.3
60°-70°	2671.3	26.5
70°-80°	1920.5	19.1
80°-90°	351.6	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°	10068.0	100.0
0°-180°	10068.0	100.0



REPORT NUMBER: P233786

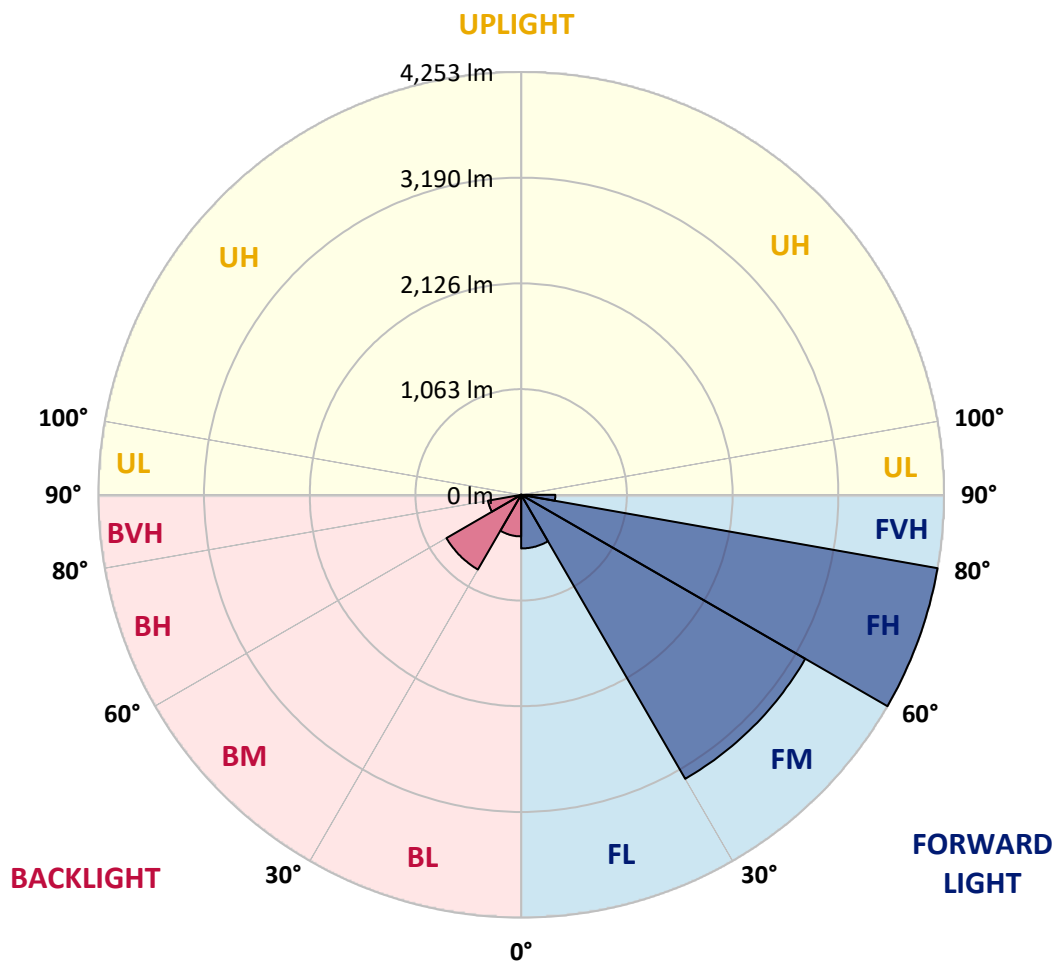
CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.7	5.4			
FM	(30°-60°)	3299.0	32.8			
FH	(60°-80°)	4252.9	42.2			G2/5000
FVH	(80°-90°)	343.2	3.4			G3/500
BL	(0°-30°)	417.9	4.2	B1/500		
BM	(30°-60°)	868.1	8.6	B1/1000		
BH	(60°-80°)	338.9	3.4	B1/500		G1/500
BVH	(80°-90°)	8.3	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





REPORT NUMBER: P233786

CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1154.2	1156.7	1153.3	1144.9	1135.6	1130.6	1129.7	1128.9	1124.7	1118.7	1110.3
5°	1166.0	1166.8	1163.4	1156.7	1148.3	1146.6	1144.0	1144.9	1142.4	1136.5	1127.2
7.5°	1171.0	1172.7	1168.5	1161.7	1155.0	1155.0	1154.2	1156.7	1155.0	1152.5	1141.5
10°	1169.3	1171.9	1169.3	1166.8	1164.3	1166.8	1165.1	1171.0	1171.9	1171.9	1159.2
12.5°	1166.8	1170.2	1171.0	1173.5	1177.8	1180.3	1183.7	1196.3	1202.2	1206.4	1196.3
15°	1169.3	1171.0	1177.8	1182.0	1190.4	1196.3	1203.9	1225.0	1235.1	1246.9	1241.8
17.5°	1180.3	1184.5	1194.6	1198.8	1207.3	1211.5	1220.8	1246.9	1267.1	1288.2	1291.6
20°	1203.9	1206.4	1223.3	1225.0	1229.2	1233.4	1243.5	1272.2	1302.5	1332.9	1341.3
22.5°	1230.0	1235.9	1252.0	1249.4	1257.9	1259.5	1268.8	1300.0	1342.2	1379.3	1397.8
25°	1257.0	1262.1	1278.1	1279.8	1289.9	1296.6	1307.6	1337.9	1391.9	1439.1	1472.0
27.5°	1279.8	1289.9	1305.1	1306.8	1326.1	1334.6	1350.6	1385.2	1450.1	1508.2	1562.2
30°	1321.9	1324.5	1338.8	1343.8	1370.0	1377.6	1396.1	1440.0	1519.2	1591.7	1676.0
32.5°	1374.2	1373.4	1386.8	1395.3	1427.3	1440.8	1464.4	1515.0	1602.7	1692.9	1812.6
35°	1470.3	1461.9	1470.3	1478.7	1515.8	1530.2	1555.5	1631.3	1734.2	1887.6	2035.2
37.5°	1691.2	1678.5	1660.8	1618.7	1628.0	1646.5	1683.6	1786.5	1938.2	2223.2	2365.6
40°	2073.9	2046.1	1971.9	1860.6	1794.9	1796.6	1831.1	1966.0	2188.6	2607.6	2714.7
42.5°	2420.4	2401.1	2311.7	2159.1	2007.3	1998.9	2010.7	2168.4	2461.8	2964.2	3019.9
45°	2746.7	2756.0	2626.2	2506.4	2325.2	2269.5	2255.2	2384.2	2764.4	3282.1	3287.1
47.5°	3048.5	3063.7	2906.9	2793.9	2615.2	2567.1	2522.5	2611.0	3050.2	3552.7	3511.4
50°	3373.1	3384.9	3167.4	3074.7	2924.6	2879.9	2846.2	2885.0	3342.8	3803.9	3711.2
52.5°	3821.6	3755.9	3482.7	3329.3	3196.1	3192.7	3166.6	3191.0	3675.8	4029.9	3862.9
55°	4351.1	4179.1	3889.1	3643.7	3472.6	3481.9	3450.7	3491.1	4005.4	4223.8	4003.7
57.5°	4538.2	4534.0	4399.1	4163.9	3816.6	3795.5	3741.5	3787.1	4290.4	4405.0	4103.2
60°	4797.9	4820.7	4835.8	4694.2	4493.5	4302.2	4121.8	4117.5	4555.9	4570.3	4152.1
62.5°	4965.7	4986.7	5104.8	5086.2	5210.2	5146.9	4941.2	4485.1	4759.1	4677.3	4170.7
65°	4652.0	4704.3	5001.9	5228.7	5651.1	5739.6	5710.1	5050.0	4897.4	4708.5	4136.1
67.5°	4084.7	4152.9	4479.2	5009.5	5924.2	6022.9	5968.9	5619.0	4957.2	4695.0	4040.8
68°	3978.4	4037.4	4357.8	4936.2	5952.0	6038.0	5989.1	5661.2	4959.8	4693.4	4004.6
70°	3467.5	3515.6	3828.4	4560.1	5874.5	5954.6	5947.8	5700.8	4937.8	4641.1	3760.9
72.5°	2690.2	2738.3	3015.6	3782.0	5516.2	5662.9	5657.0	5542.3	4897.4	4374.7	3153.1
75°	1945.0	1998.1	2251.0	2906.1	4773.4	5096.3	5161.3	5270.9	4476.7	3681.7	2243.4
77.5°	1404.5	1443.3	1661.7	2195.3	3899.2	4268.4	4400.0	4510.4	3664.0	2683.5	1067.3
80°	936.6	964.5	1175.2	1632.2	2937.2	3154.8	3296.4	3111.8	2084.9	970.4	115.5
82.5°	576.7	594.4	760.4	1144.9	2031.8	2100.1	2100.9	1660.0	671.9	92.7	62.4
85°	309.4	315.3	413.1	624.7	1073.2	1124.7	1104.4	697.2	135.7	49.7	33.7
87.5°	49.7	54.0	129.8	234.4	331.3	255.4	163.6	51.4	13.5	7.6	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233786

CATALOG NUMBER: VERD-C029-D-U-T4-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1114.5	1112.0	1105.3	1101.9	1093.5	1096.0	1096.0	1089.2	1092.6	1106.1	1104.4
5°	1124.7	1125.5	1109.5	1101.0	1082.5	1077.4	1069.9	1059.7	1058.9	1068.2	1069.0
7.5°	1133.1	1137.3	1114.5	1097.7	1072.4	1054.7	1039.5	1021.8	1017.6	1023.5	1023.5
10°	1146.6	1150.8	1122.1	1098.5	1061.4	1032.8	1006.6	983.9	974.6	974.6	975.4
12.5°	1182.0	1179.5	1146.6	1110.3	1066.5	1021.0	979.6	949.3	927.4	926.5	923.2
15°	1230.9	1221.6	1189.6	1134.8	1078.3	1020.1	962.8	915.6	877.6	867.5	863.3
17.5°	1283.1	1271.3	1232.6	1166.0	1096.8	1019.3	943.4	877.6	814.4	790.0	782.4
20°	1339.6	1325.3	1285.7	1202.2	1115.4	1013.4	914.7	822.8	736.8	690.5	678.7
22.5°	1402.0	1390.2	1342.2	1239.3	1128.0	1000.7	870.0	753.7	644.1	577.5	572.4
25°	1483.0	1472.0	1401.2	1272.2	1128.9	977.1	811.0	665.2	527.8	449.4	433.3
27.5°	1579.9	1560.5	1448.4	1292.4	1115.4	935.8	734.3	547.2	392.0	326.3	324.6
30°	1685.3	1649.9	1486.3	1297.5	1085.0	870.0	628.9	402.1	278.2	233.5	233.5
32.5°	1809.2	1744.3	1525.1	1289.0	1035.3	779.0	481.4	279.1	191.4	170.3	170.3
35°	1990.5	1890.2	1574.8	1268.0	965.3	653.4	342.3	184.6	150.9	148.4	148.4
37.5°	2277.1	2110.2	1642.3	1232.6	869.2	498.3	222.6	142.5	144.2	144.2	143.3
40°	2582.3	2364.8	1735.0	1176.1	748.6	344.0	145.9	134.9	137.4	139.1	138.3
42.5°	2858.0	2606.8	1836.2	1100.2	606.2	216.7	133.2	129.8	128.1	129.8	130.7
45°	3096.6	2816.7	1938.2	1001.6	447.7	141.6	129.8	122.2	117.2	118.0	118.9
47.5°	3300.6	2981.9	2007.3	897.9	296.8	125.6	125.6	112.1	107.1	107.1	107.1
50°	3479.3	3128.6	2049.5	773.9	177.0	123.9	118.0	102.9	97.8	97.0	97.8
52.5°	3609.2	3231.5	2044.4	623.0	118.9	119.7	107.9	94.4	88.5	90.2	91.1
55°	3712.0	3296.4	1999.8	456.1	111.3	112.1	100.3	85.1	80.9	81.8	81.8
57.5°	3776.9	3312.4	1908.7	296.8	108.8	100.3	90.2	75.9	70.8	70.8	70.8
60°	3798.0	3304.0	1784.8	189.7	107.9	90.2	81.8	68.3	63.2	63.2	63.2
62.5°	3780.3	3255.1	1574.8	136.6	100.3	84.3	74.2	60.7	55.6	54.0	54.0
65°	3717.1	3124.4	1214.0	113.0	90.2	77.6	67.4	54.8	48.1	45.5	44.7
67.5°	3532.4	2841.1	706.5	106.2	81.8	70.8	62.4	49.7	42.2	37.9	37.1
68°	3484.4	2756.8	580.9	105.4	81.8	70.0	61.5	48.1	40.5	36.3	35.4
70°	3140.4	2224.0	166.9	100.3	80.1	67.4	56.5	43.8	36.3	31.2	30.4
72.5°	2364.8	1303.4	104.5	89.4	79.2	59.9	54.8	43.8	32.0	27.0	25.3
75°	1320.2	296.8	88.5	66.6	74.2	59.0	54.0	39.6	28.7	21.9	21.1
77.5°	271.5	86.0	75.9	46.4	56.5	51.4	45.5	33.7	26.1	16.9	16.0
80°	76.7	64.1	67.4	33.7	32.0	36.3	33.7	29.5	19.4	12.6	12.6
82.5°	49.7	47.2	60.7	22.8	16.9	16.9	21.9	17.7	16.9	10.1	10.1
85°	30.4	39.6	29.5	10.1	8.4	6.7	7.6	7.6	10.1	6.7	6.7
87.5°	4.2	4.2	4.2	4.2	4.2	3.4	2.5	2.5	2.5	3.4	3.4
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)