

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: P233796

Luminaire Tested: **VERD-C01H-D-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233796
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-C01H-D-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9068 lumens
Efficiency: N/A
Efficacy: 124.2 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): 73
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

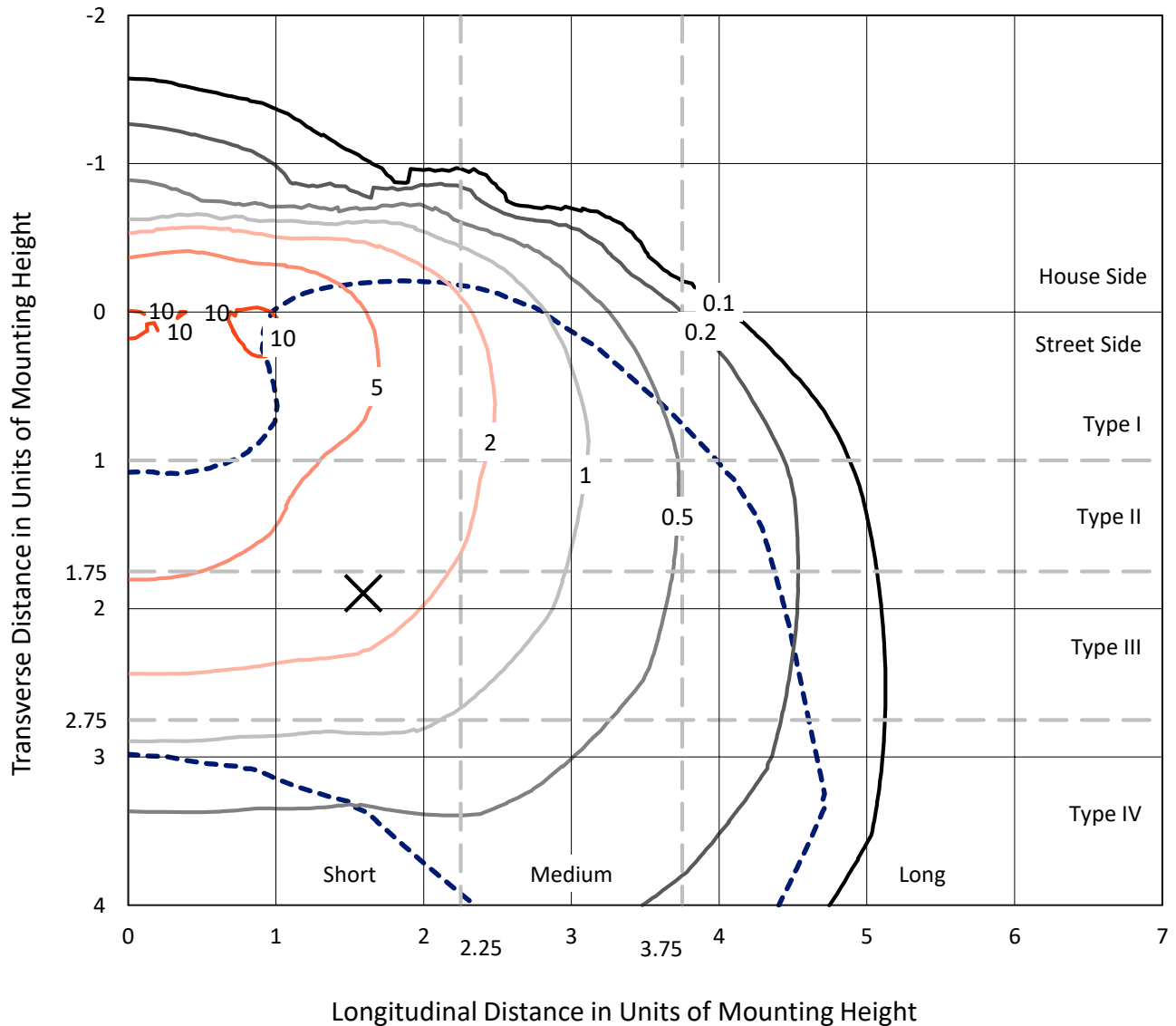


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

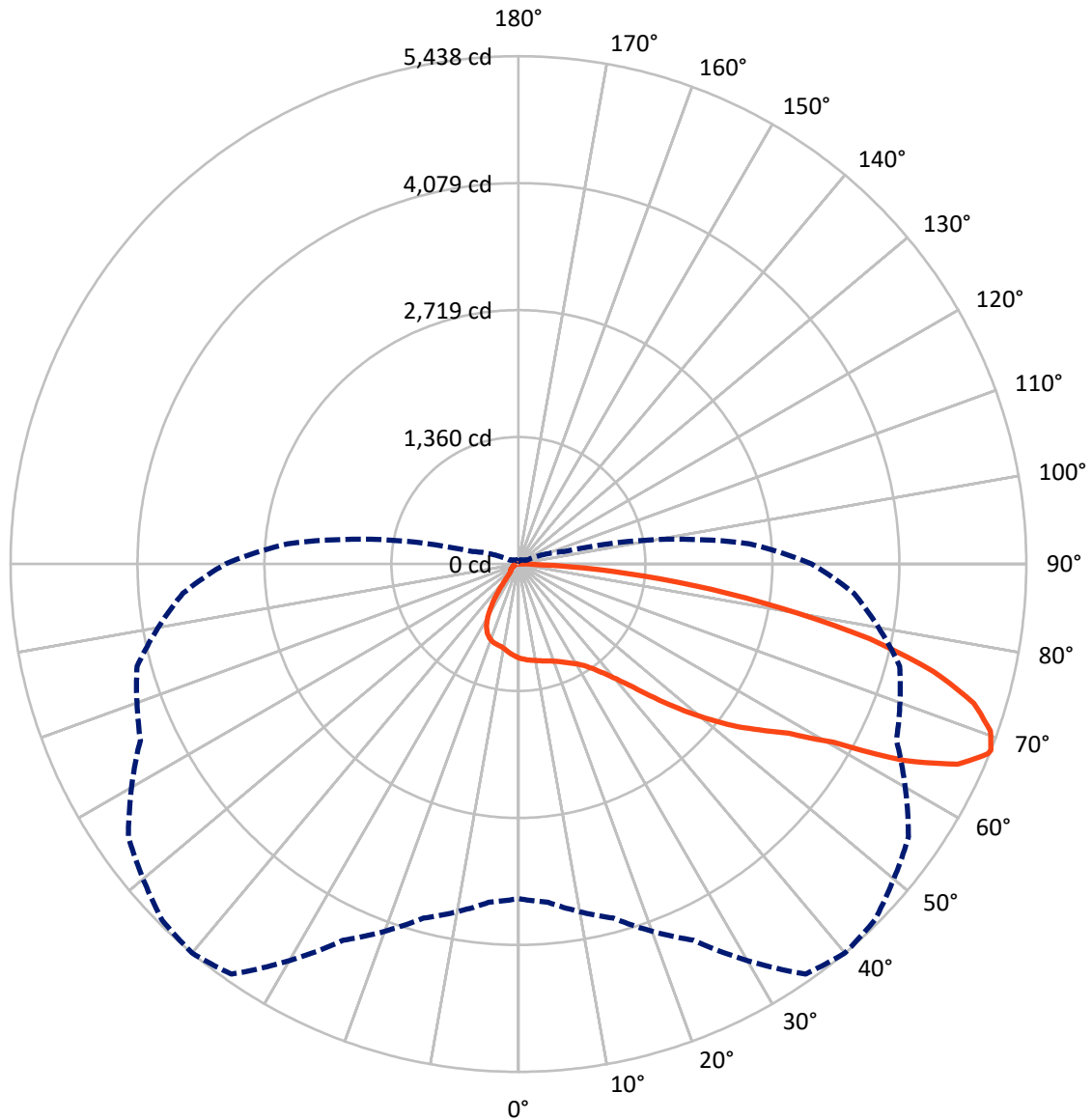


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - Non-Cutoff

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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	1471.0	0.0	1471.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	7597.0	0.0	7597.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	9068.0	0.0	9068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.1
10°-20°	286.3	3.2
20°-30°	480.5	5.3
30°-40°	711.7	7.8
40°-50°	1204.0	13.3
50°-60°	1837.5	20.3
60°-70°	2406.0	26.5
70°-80°	1729.8	19.1
80°-90°	316.6	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°	9068.0	100.0
0°-180°	9068.0	100.0

Coefficient of Utilization



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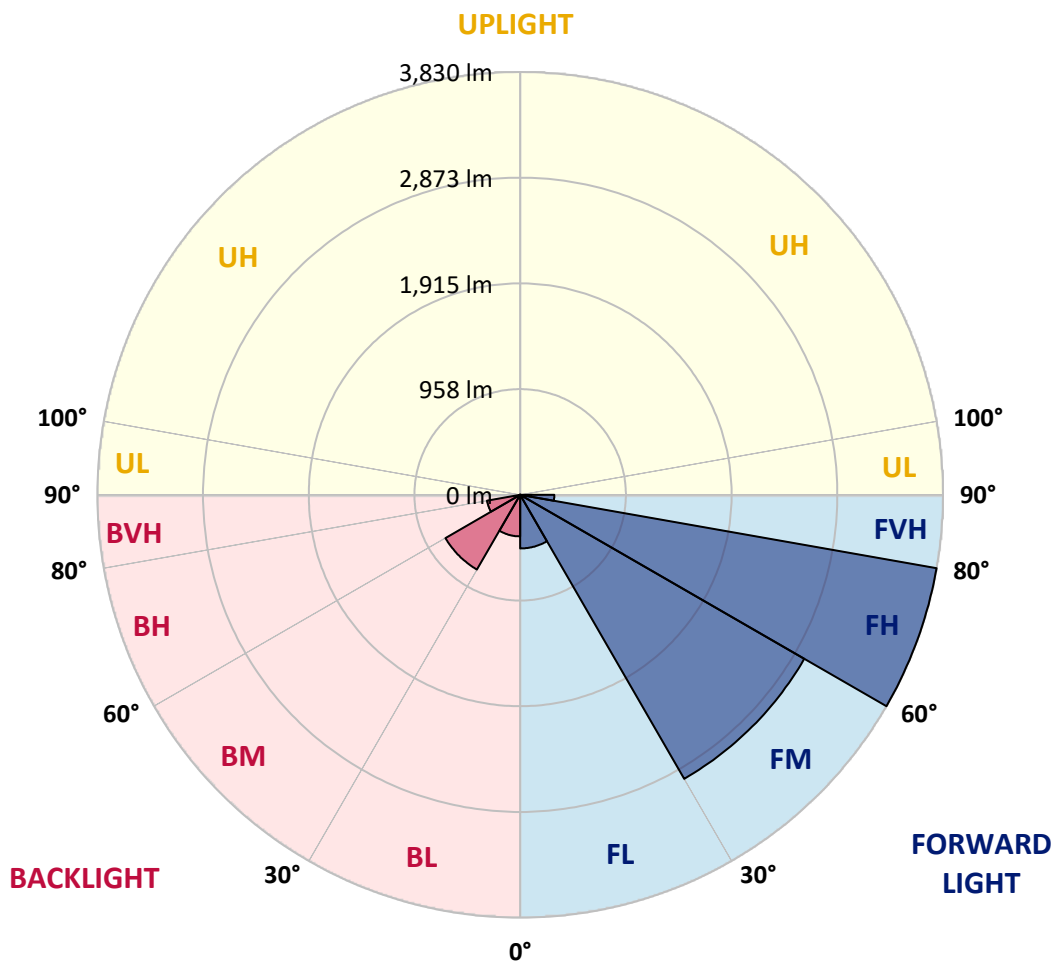
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.1	5.4			
FM	(30°-60°)	2971.3	32.8			
FH	(60°-80°)	3830.5	42.2			G2/5000
FVH	(80°-90°)	309.1	3.4			G3/500
BL	(0°-30°)	376.4	4.2	B1/500		
BM	(30°-60°)	781.8	8.6	B1/1000		
BH	(60°-80°)	305.3	3.4	B1/500		G1/500
BVH	(80°-90°)	7.5	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°	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6
2.5°	1039.5	1041.8	1038.8	1031.2	1022.8	1018.3	1017.5	1016.7	1012.9	1007.6	1000.0
5°	1050.2	1050.9	1047.9	1041.8	1034.2	1032.7	1030.4	1031.2	1028.9	1023.6	1015.2
7.5°	1054.7	1056.2	1052.4	1046.4	1040.3	1040.3	1039.5	1041.8	1040.3	1038.0	1028.1
10°	1053.2	1055.5	1053.2	1050.9	1048.6	1050.9	1049.4	1054.7	1055.5	1055.5	1044.1
12.5°	1050.9	1053.9	1054.7	1057.0	1060.8	1063.1	1066.1	1077.5	1082.8	1086.6	1077.5
15°	1053.2	1054.7	1060.8	1064.6	1072.2	1077.5	1084.3	1103.3	1112.4	1123.0	1118.5
17.5°	1063.1	1066.9	1076.0	1079.8	1087.4	1091.2	1099.5	1123.0	1141.3	1160.3	1163.3
20°	1084.3	1086.6	1101.8	1103.3	1107.1	1110.9	1120.0	1145.8	1173.2	1200.5	1208.1
22.5°	1107.9	1113.2	1127.6	1125.3	1132.9	1134.4	1142.8	1170.9	1208.9	1242.3	1259.0
25°	1132.2	1136.7	1151.1	1152.7	1161.8	1167.8	1177.7	1205.1	1253.7	1296.2	1325.8
27.5°	1152.7	1161.8	1175.4	1177.0	1194.4	1202.0	1216.4	1247.6	1306.0	1358.4	1407.0
30°	1190.6	1192.9	1205.8	1210.4	1233.9	1240.7	1257.4	1296.9	1368.3	1433.6	1509.5
32.5°	1237.7	1236.9	1249.1	1256.7	1285.5	1297.7	1319.0	1364.5	1443.5	1524.7	1632.6
35°	1324.3	1316.7	1324.3	1331.9	1365.3	1378.2	1401.0	1469.3	1561.9	1700.1	1833.0
37.5°	1523.2	1511.8	1495.9	1457.9	1466.3	1483.0	1516.4	1609.0	1745.7	2002.4	2130.7
40°	1868.0	1842.9	1776.1	1675.8	1616.6	1618.1	1649.3	1770.8	1971.2	2348.6	2445.0
42.5°	2180.0	2162.6	2082.1	1944.6	1808.0	1800.4	1811.0	1953.0	2217.2	2669.8	2719.9
45°	2473.9	2482.2	2365.3	2257.5	2094.2	2044.1	2031.2	2147.4	2489.8	2956.1	2960.6
47.5°	2745.7	2759.4	2618.2	2516.4	2355.4	2312.2	2271.9	2351.6	2747.3	3199.8	3162.6
50°	3038.1	3048.7	2852.8	2769.3	2634.1	2593.9	2563.5	2598.4	3010.7	3426.1	3342.6
52.5°	3442.0	3382.8	3136.8	2998.6	2878.6	2875.6	2852.0	2874.1	3310.7	3629.6	3479.2
55°	3918.9	3764.0	3502.8	3281.8	3127.7	3136.0	3107.9	3144.4	3607.6	3804.2	3606.1
57.5°	4087.5	4083.7	3962.2	3750.3	3437.5	3418.5	3369.9	3410.9	3864.2	3967.5	3695.7
60°	4321.3	4341.8	4355.5	4227.9	4047.2	3874.9	3712.4	3708.6	4103.4	4116.3	3739.7
62.5°	4472.4	4491.4	4597.7	4581.0	4692.7	4635.7	4450.4	4039.6	4286.4	4212.8	3756.4
65°	4190.0	4237.1	4505.1	4709.4	5089.8	5169.5	5142.9	4548.4	4410.9	4240.9	3725.3
67.5°	3679.0	3740.5	4034.3	4511.9	5335.8	5424.6	5376.1	5060.9	4464.9	4228.7	3639.5
68°	3583.3	3636.4	3925.0	4445.9	5360.9	5438.3	5394.3	5098.9	4467.1	4227.2	3606.8
70°	3123.1	3166.4	3448.1	4107.2	5291.0	5363.1	5357.1	5134.6	4447.4	4180.1	3387.4
72.5°	2423.0	2466.3	2716.1	3406.4	4968.3	5100.4	5095.1	4991.8	4410.9	3940.2	2839.9
75°	1751.8	1799.6	2027.4	2617.4	4299.3	4590.1	4648.6	4747.3	4032.0	3316.0	2020.6
77.5°	1265.0	1300.0	1496.6	1977.3	3511.9	3844.5	3962.9	4062.4	3300.0	2416.9	961.3
80°	843.6	868.7	1058.5	1470.1	2645.5	2841.4	2969.0	2802.7	1877.8	874.0	104.0
82.5°	519.4	535.3	684.9	1031.2	1830.0	1891.5	1892.2	1495.1	605.2	83.5	56.2
85°	278.7	284.0	372.1	562.7	966.6	1012.9	994.7	628.0	122.3	44.8	30.4
87.5°	44.8	48.6	116.9	211.1	298.4	230.1	147.3	46.3	12.1	6.8	4.6
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°	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6	1007.6
2.5°	1003.8	1001.6	995.5	992.4	984.9	987.1	987.1	981.1	984.1	996.2	994.7
5°	1012.9	1013.7	999.3	991.7	975.0	970.4	963.6	954.5	953.7	962.1	962.8
7.5°	1020.5	1024.3	1003.8	988.6	965.9	949.9	936.3	920.3	916.5	921.8	921.8
10°	1032.7	1036.5	1010.7	989.4	956.0	930.2	906.6	886.1	877.8	877.8	878.5
12.5°	1064.6	1062.3	1032.7	1000.0	960.6	919.5	882.3	855.0	835.3	834.5	831.5
15°	1108.6	1100.3	1071.4	1022.1	971.2	918.8	867.2	824.6	790.5	781.3	777.6
17.5°	1155.7	1145.1	1110.1	1050.2	987.9	918.0	849.7	790.5	733.5	711.5	704.7
20°	1206.6	1193.7	1158.0	1082.8	1004.6	912.7	823.9	741.1	663.7	621.9	611.3
22.5°	1262.8	1252.1	1208.9	1116.2	1016.0	901.3	783.6	678.8	580.1	520.1	515.6
25°	1335.7	1325.8	1262.0	1145.8	1016.7	880.1	730.5	599.1	475.3	404.7	390.3
27.5°	1423.0	1405.5	1304.5	1164.1	1004.6	842.9	661.4	492.8	353.1	293.9	292.3
30°	1517.9	1486.0	1338.7	1168.6	977.3	783.6	566.5	362.2	250.6	210.3	210.3
32.5°	1629.5	1571.1	1373.6	1161.0	932.5	701.6	433.6	251.3	172.4	153.4	153.4
35°	1792.8	1702.4	1418.4	1142.0	869.4	588.5	308.3	166.3	135.9	133.6	133.6
37.5°	2050.9	1900.6	1479.2	1110.1	782.9	448.8	200.5	128.3	129.8	129.8	129.1
40°	2325.8	2129.9	1562.7	1059.3	674.3	309.8	131.4	121.5	123.8	125.3	124.5
42.5°	2574.1	2347.8	1653.8	990.9	546.0	195.1	120.0	116.9	115.4	116.9	117.7
45°	2789.0	2536.9	1745.7	902.1	403.2	127.6	116.9	110.1	105.5	106.3	107.1
47.5°	2972.8	2685.7	1808.0	808.7	267.3	113.1	113.1	101.0	96.4	96.4	96.4
50°	3133.8	2817.9	1845.9	697.1	159.5	111.6	106.3	92.6	88.1	87.3	88.1
52.5°	3250.7	2910.5	1841.4	561.1	107.1	107.8	97.2	85.0	79.7	81.2	82.0
55°	3343.3	2969.0	1801.1	410.8	100.2	101.0	90.4	76.7	72.9	73.7	73.7
57.5°	3401.8	2983.4	1719.1	267.3	98.0	90.4	81.2	68.3	63.8	63.8	63.8
60°	3420.8	2975.8	1607.5	170.8	97.2	81.2	73.7	61.5	56.9	56.9	56.9
62.5°	3404.8	2931.8	1418.4	123.0	90.4	75.9	66.8	54.7	50.1	48.6	48.6
65°	3347.9	2814.1	1093.4	101.8	81.2	69.9	60.7	49.4	43.3	41.0	40.2
67.5°	3181.6	2558.9	636.3	95.7	73.7	63.8	56.2	44.8	38.0	34.2	33.4
68°	3138.3	2483.0	523.2	94.9	73.7	63.0	55.4	43.3	36.4	32.7	31.9
70°	2828.5	2003.1	150.3	90.4	72.1	60.7	50.9	39.5	32.7	28.1	27.3
72.5°	2129.9	1173.9	94.2	80.5	71.4	53.9	49.4	39.5	28.9	24.3	22.8
75°	1189.1	267.3	79.7	60.0	66.8	53.2	48.6	35.7	25.8	19.7	19.0
77.5°	244.5	77.5	68.3	41.8	50.9	46.3	41.0	30.4	23.5	15.2	14.4
80°	69.1	57.7	60.7	30.4	28.9	32.7	30.4	26.6	17.5	11.4	11.4
82.5°	44.8	42.5	54.7	20.5	15.2	15.2	19.7	15.9	15.2	9.1	9.1
85°	27.3	35.7	26.6	9.1	7.6	6.1	6.8	6.8	9.1	6.1	6.1
87.5°	3.8	3.8	3.8	3.8	3.8	3.0	2.3	2.3	2.3	3.0	3.0
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)