

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: P233774

Luminaire Tested: **VERD-C02-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233774
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-C02-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8533 lumens
Efficiency: N/A
Efficacy: 94.8 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): 90
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

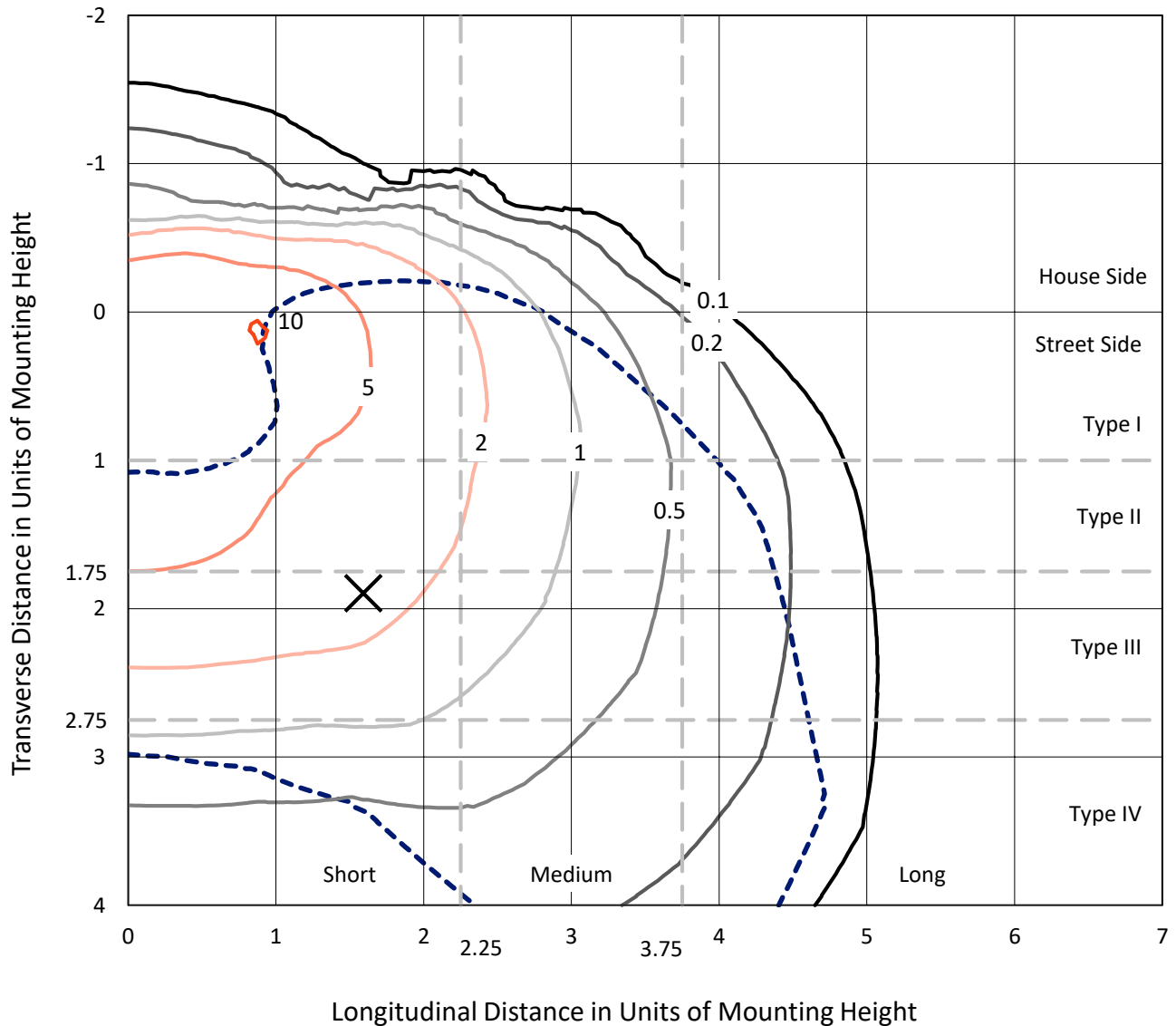


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

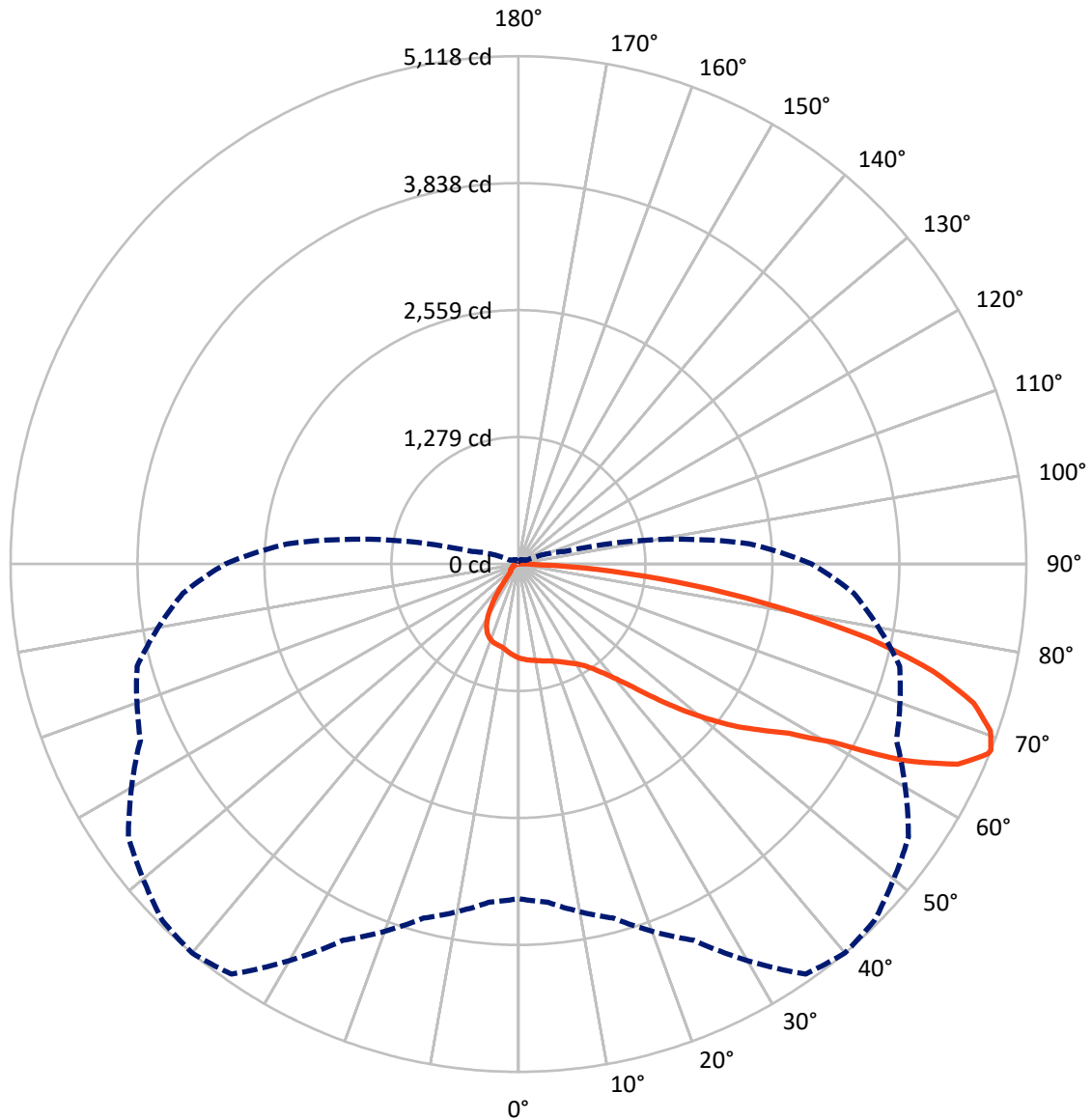


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - Non-Cutoff

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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	1384.2	0.0	1384.2
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	7148.8	0.0	7148.8
	% Fixture	83.8	0.0	83.8
Total	Lumens	8533.0	0.0	8533.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	269.4	3.2
20°-30°	452.2	5.3
30°-40°	669.7	7.8
40°-50°	1132.9	13.3
50°-60°	1729.1	20.3
60°-70°	2264.0	26.5
70°-80°	1627.7	19.1
80°-90°	298.0	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°	8533.0	100.0
0°-180°	8533.0	100.0



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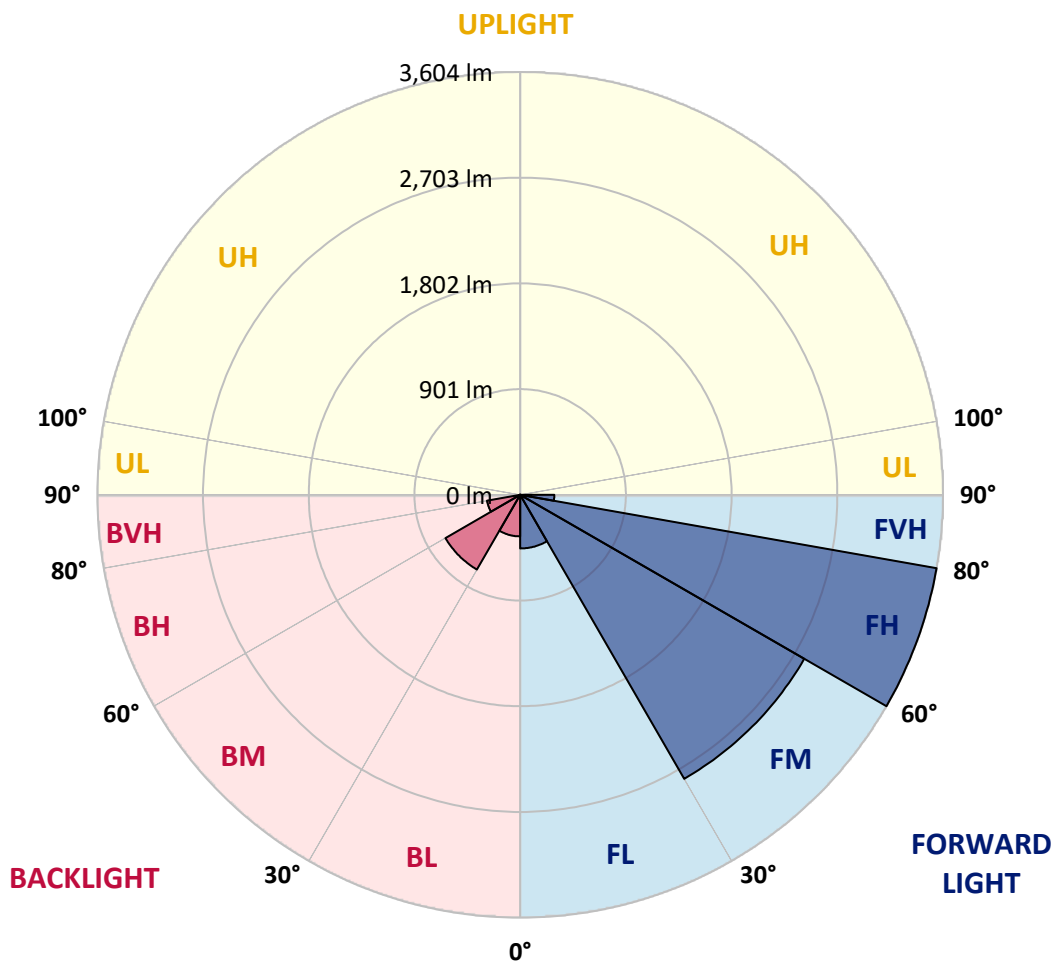
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.4	5.4			
FM (30°-60°)	2796.0	32.8			
FH (60°-80°)	3604.5	42.2			G2/5000
FVH (80°-90°)	290.9	3.4			G3/500
BL (0°-30°)	354.2	4.2	B1/500		
BM (30°-60°)	735.7	8.6	B1/1000		
BH (60°-80°)	287.3	3.4	B1/500		G1/500
BVH (80°-90°)	7.1	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°	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2
2.5°	978.2	980.3	977.5	970.3	962.5	958.2	957.5	956.8	953.2	948.2	941.0
5°	988.2	988.9	986.1	980.3	973.2	971.8	969.6	970.3	968.2	963.2	955.3
7.5°	992.5	993.9	990.3	984.6	978.9	978.9	978.2	980.3	978.9	976.8	967.5
10°	991.1	993.2	991.1	988.9	986.8	988.9	987.5	992.5	993.2	993.2	982.5
12.5°	988.9	991.8	992.5	994.6	998.2	1000.3	1003.2	1013.9	1018.9	1022.5	1013.9
15°	991.1	992.5	998.2	1001.8	1008.9	1013.9	1020.3	1038.2	1046.8	1056.8	1052.5
17.5°	1000.3	1003.9	1012.5	1016.1	1023.2	1026.8	1034.6	1056.8	1073.9	1091.8	1094.7
20°	1020.3	1022.5	1036.8	1038.2	1041.8	1045.4	1053.9	1078.2	1103.9	1129.7	1136.8
22.5°	1042.5	1047.5	1061.1	1058.9	1066.1	1067.5	1075.4	1101.8	1137.5	1169.0	1184.7
25°	1065.4	1069.7	1083.2	1084.7	1093.2	1098.9	1108.2	1134.0	1179.7	1219.7	1247.6
27.5°	1084.7	1093.2	1106.1	1107.5	1124.0	1131.1	1144.7	1174.0	1229.0	1278.3	1324.0
30°	1120.4	1122.5	1134.7	1139.0	1161.1	1167.5	1183.3	1220.4	1287.6	1349.0	1420.5
32.5°	1164.7	1164.0	1175.4	1182.5	1209.7	1221.1	1241.1	1284.0	1358.3	1434.8	1536.2
35°	1246.1	1239.0	1246.1	1253.3	1284.7	1296.9	1318.3	1382.6	1469.8	1599.8	1724.9
37.5°	1433.3	1422.6	1407.6	1371.9	1379.8	1395.5	1426.9	1514.1	1642.7	1884.2	2005.0
40°	1757.7	1734.2	1671.3	1577.0	1521.2	1522.7	1552.0	1666.3	1854.9	2210.0	2300.8
42.5°	2051.4	2035.0	1959.2	1829.9	1701.3	1694.2	1704.2	1837.8	2086.4	2512.3	2559.4
45°	2327.9	2335.8	2225.8	2124.3	1970.7	1923.5	1911.4	2020.7	2342.9	2781.7	2786.0
47.5°	2583.7	2596.6	2463.7	2368.0	2216.5	2175.7	2137.9	2212.9	2585.2	3011.0	2976.0
50°	2858.8	2868.8	2684.5	2605.9	2478.7	2440.8	2412.3	2445.1	2833.1	3224.0	3145.4
52.5°	3239.0	3183.2	2951.7	2821.7	2708.8	2705.9	2683.8	2704.5	3115.4	3415.5	3274.0
55°	3687.7	3541.9	3296.1	3088.2	2943.1	2951.0	2924.6	2958.9	3394.7	3579.8	3393.3
57.5°	3846.3	3842.7	3728.4	3529.1	3234.7	3216.8	3171.1	3209.7	3636.2	3733.4	3477.6
60°	4066.4	4085.7	4098.5	3978.5	3808.4	3646.2	3493.3	3489.8	3861.3	3873.5	3519.1
62.5°	4208.6	4226.4	4326.5	4310.8	4415.8	4362.2	4187.9	3801.3	4033.5	3964.2	3534.8
65°	3942.8	3987.1	4239.3	4431.5	4789.5	4864.5	4839.5	4280.0	4150.7	3990.6	3505.5
67.5°	3461.9	3519.8	3796.3	4245.7	5021.0	5104.6	5058.9	4762.3	4201.4	3979.2	3424.7
68°	3371.9	3421.9	3693.4	4183.6	5044.6	5117.5	5076.0	4798.1	4203.6	3977.8	3394.0
70°	2938.9	2979.6	3244.7	3864.9	4978.8	5046.7	5041.0	4831.7	4185.0	3933.5	3187.5
72.5°	2280.1	2320.8	2555.9	3205.4	4675.2	4799.5	4794.5	4697.3	4150.7	3707.7	2672.3
75°	1648.4	1693.4	1907.8	2463.0	4045.7	4319.3	4374.4	4467.2	3794.2	3120.4	1901.4
77.5°	1190.4	1223.3	1408.3	1860.6	3304.7	3617.7	3729.1	3822.7	3105.3	2274.3	904.6
80°	793.8	817.4	996.1	1383.3	2489.4	2673.8	2793.8	2637.3	1767.0	822.4	97.9
82.5°	488.7	503.7	644.5	970.3	1722.0	1779.9	1780.6	1406.9	569.5	78.6	52.9
85°	262.2	267.2	350.1	529.5	909.6	953.2	936.0	590.9	115.0	42.2	28.6
87.5°	42.2	45.7	110.0	198.6	280.8	216.5	138.6	43.6	11.4	6.4	4.3
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°	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2	948.2
2.5°	944.6	942.5	936.7	933.9	926.7	928.9	928.9	923.2	926.0	937.5	936.0
5°	953.2	953.9	940.3	933.2	917.5	913.2	906.7	898.2	897.4	905.3	906.0
7.5°	960.3	963.9	944.6	930.3	908.9	893.9	881.0	866.0	862.4	867.4	867.4
10°	971.8	975.3	951.0	931.0	899.6	875.3	853.1	833.9	826.0	826.0	826.7
12.5°	1001.8	999.6	971.8	941.0	903.9	865.3	830.3	804.6	786.0	785.3	782.4
15°	1043.2	1035.4	1008.2	961.8	913.9	864.6	816.0	776.0	743.8	735.3	731.7
17.5°	1087.5	1077.5	1044.6	988.2	929.6	863.9	799.6	743.8	690.2	669.5	663.1
20°	1135.4	1123.2	1089.7	1018.9	945.3	858.9	775.3	697.4	624.5	585.2	575.2
22.5°	1188.3	1178.3	1137.5	1050.4	956.0	848.1	737.4	638.8	545.9	489.5	485.2
25°	1256.9	1247.6	1187.5	1078.2	956.8	828.1	687.4	563.8	447.3	380.8	367.3
27.5°	1339.0	1322.6	1227.6	1095.4	945.3	793.1	622.4	463.7	332.3	276.5	275.1
30°	1428.3	1398.3	1259.7	1099.7	919.6	737.4	533.0	340.8	235.8	197.9	197.9
32.5°	1533.4	1478.4	1292.6	1092.5	877.4	660.2	408.0	236.5	162.2	144.3	144.3
35°	1687.0	1602.0	1334.7	1074.7	818.1	553.8	290.1	156.5	127.9	125.8	125.8
37.5°	1929.9	1788.5	1391.9	1044.6	736.7	422.3	188.6	120.8	122.2	122.2	121.5
40°	2188.6	2004.3	1470.5	996.8	634.5	291.5	123.6	114.3	116.5	117.9	117.2
42.5°	2422.3	2209.3	1556.2	932.5	513.7	183.6	112.9	110.0	108.6	110.0	110.8
45°	2624.5	2387.2	1642.7	848.9	379.4	120.0	110.0	103.6	99.3	100.0	100.7
47.5°	2797.4	2527.3	1701.3	761.0	251.5	106.5	106.5	95.0	90.7	90.7	90.7
50°	2948.9	2651.6	1737.0	655.9	150.1	105.0	100.0	87.2	82.9	82.2	82.9
52.5°	3058.9	2738.8	1732.7	528.0	100.7	101.5	91.5	80.0	75.0	76.5	77.2
55°	3146.1	2793.8	1694.9	386.6	94.3	95.0	85.0	72.2	68.6	69.3	69.3
57.5°	3201.1	2807.4	1617.7	251.5	92.2	85.0	76.5	64.3	60.0	60.0	60.0
60°	3219.0	2800.2	1512.7	160.8	91.5	76.5	69.3	57.9	53.6	53.6	53.6
62.5°	3204.0	2758.8	1334.7	115.8	85.0	71.5	62.9	51.4	47.2	45.7	45.7
65°	3150.4	2648.0	1028.9	95.7	76.5	65.7	57.2	46.4	40.7	38.6	37.9
67.5°	2993.9	2408.0	598.8	90.0	69.3	60.0	52.9	42.2	35.7	32.2	31.4
68°	2953.2	2336.5	492.3	89.3	69.3	59.3	52.2	40.7	34.3	30.7	30.0
70°	2661.6	1884.9	141.5	85.0	67.9	57.2	47.9	37.2	30.7	26.4	25.7
72.5°	2004.3	1104.7	88.6	75.7	67.2	50.7	46.4	37.2	27.2	22.9	21.4
75°	1119.0	251.5	75.0	56.4	62.9	50.0	45.7	33.6	24.3	18.6	17.9
77.5°	230.1	72.9	64.3	39.3	47.9	43.6	38.6	28.6	22.2	14.3	13.6
80°	65.0	54.3	57.2	28.6	27.2	30.7	28.6	25.0	16.4	10.7	10.7
82.5°	42.2	40.0	51.4	19.3	14.3	14.3	18.6	15.0	14.3	8.6	8.6
85°	25.7	33.6	25.0	8.6	7.1	5.7	6.4	6.4	8.6	5.7	5.7
87.5°	3.6	3.6	3.6	3.6	3.6	2.9	2.1	2.1	2.1	2.9	2.9
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)