

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: P233772

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233772
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-C028-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 930mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8384 lumens
Efficiency: N/A
Efficacy: 114.8 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): 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

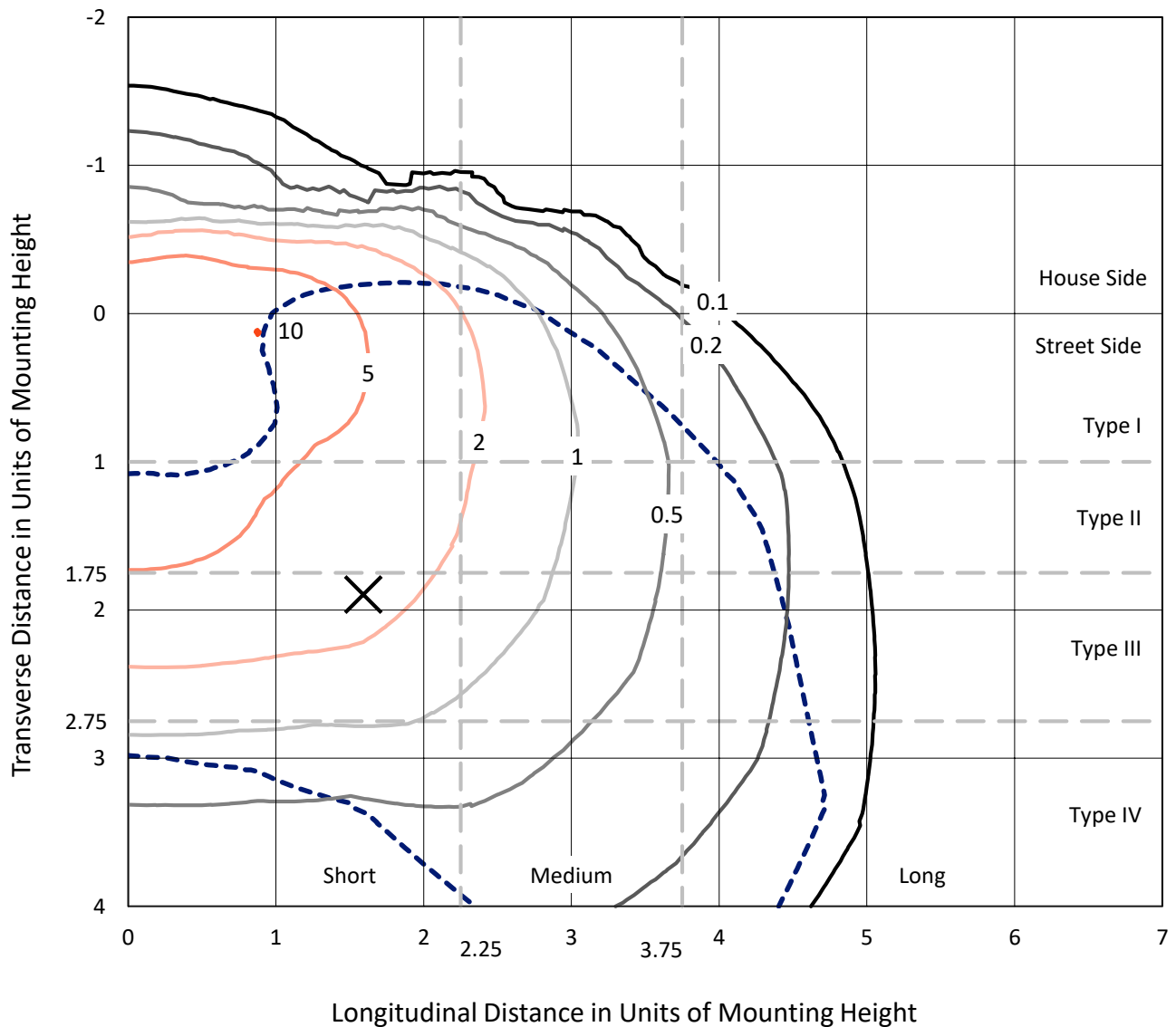


REPORT NUMBER: P233772

CATALOG NUMBER: VERD-C028-D-U-T4-8027-HSS

Iso-Footcandle Lines of Horizontal Illumination

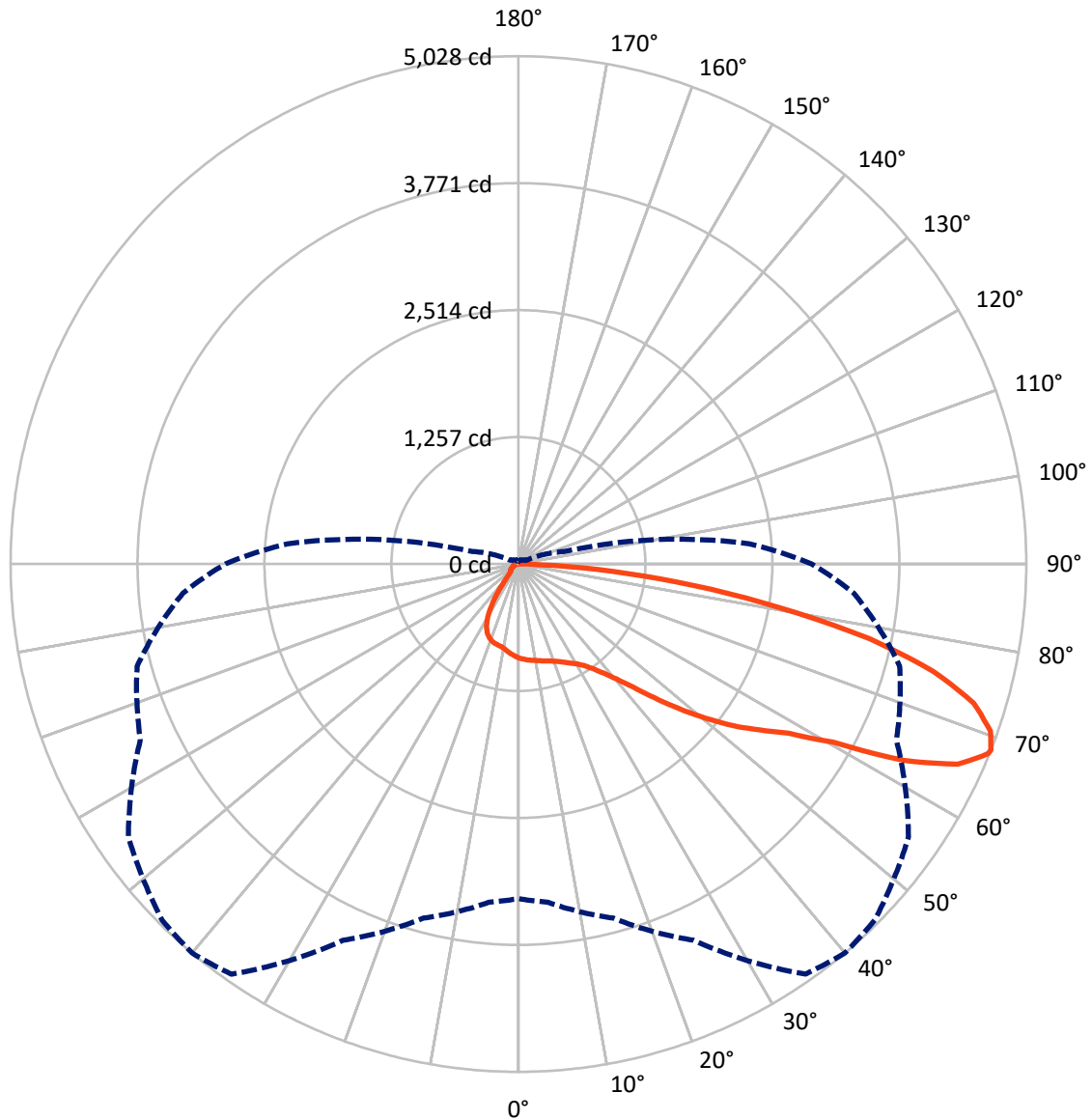
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233772
CATALOG NUMBER: VERD-C028-D-U-T4-8027-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233772

CATALOG NUMBER: VERD-C028-D-U-T4-8027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.0	0.0	1360.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	7023.9	0.0	7023.9
	% Fixture	83.8	0.0	83.8
Total	Lumens	8384.0	0.0	8384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.1
10°-20°	264.7	3.2
20°-30°	444.3	5.3
30°-40°	658.0	7.8
40°-50°	1113.2	13.3
50°-60°	1698.9	20.3
60°-70°	2224.5	26.5
70°-80°	1599.3	19.1
80°-90°	292.8	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°	8384.0	100.0
0°-180°	8384.0	100.0



REPORT NUMBER: P233772

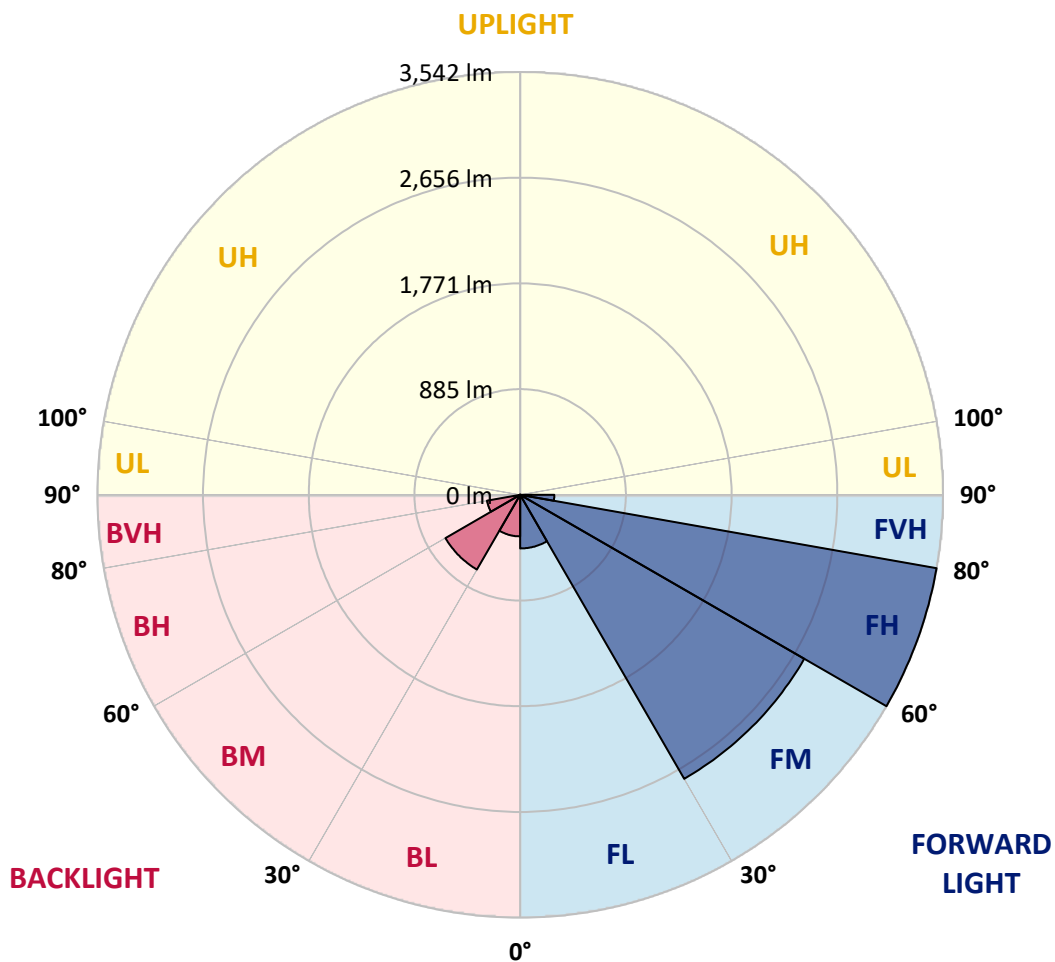
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.4	5.4			
FM	(30°-60°)	2747.2	32.8			
FH	(60°-80°)	3541.5	42.2			G2/5000
FVH	(80°-90°)	285.8	3.4			G3/500
BL	(0°-30°)	348.0	4.2	B1/500		
BM	(30°-60°)	722.9	8.6	B1/1000		
BH	(60°-80°)	282.2	3.4	B1/500		G1/500
BVH	(80°-90°)	7.0	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: P233772

CATALOG NUMBER: VERD-C028-D-U-T4-8027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6
2.5°	961.1	963.2	960.4	953.4	945.7	941.5	940.8	940.0	936.5	931.6	924.6
5°	970.9	971.6	968.8	963.2	956.2	954.8	952.7	953.4	951.3	946.4	938.6
7.5°	975.2	976.6	973.0	967.4	961.8	961.8	961.1	963.2	961.8	959.7	950.6
10°	973.7	975.9	973.7	971.6	969.5	971.6	970.2	975.2	975.9	975.9	965.3
12.5°	971.6	974.4	975.2	977.3	980.8	982.9	985.7	996.2	1001.1	1004.6	996.2
15°	973.7	975.2	980.8	984.3	991.3	996.2	1002.5	1020.1	1028.5	1038.3	1034.1
17.5°	982.9	986.4	994.8	998.3	1005.3	1008.9	1016.6	1038.3	1055.2	1072.7	1075.5
20°	1002.5	1004.6	1018.7	1020.1	1023.6	1027.1	1035.5	1059.4	1084.7	1109.9	1117.0
22.5°	1024.3	1029.2	1042.5	1040.4	1047.5	1048.9	1056.6	1082.6	1117.7	1148.6	1164.0
25°	1046.8	1051.0	1064.3	1065.7	1074.1	1079.8	1088.9	1114.2	1159.1	1198.4	1225.8
27.5°	1065.7	1074.1	1086.8	1088.2	1104.3	1111.3	1124.7	1153.5	1207.5	1256.0	1300.9
30°	1100.8	1102.9	1114.9	1119.1	1140.8	1147.2	1162.6	1199.1	1265.1	1325.5	1395.7
32.5°	1144.3	1143.6	1154.9	1161.9	1188.6	1199.8	1219.5	1261.6	1334.6	1409.7	1509.4
35°	1224.4	1217.4	1224.4	1231.4	1262.3	1274.2	1295.3	1358.5	1444.1	1571.9	1694.8
37.5°	1408.3	1397.8	1383.0	1347.9	1355.7	1371.1	1402.0	1487.7	1614.0	1851.3	1970.0
40°	1727.1	1703.9	1642.1	1549.4	1494.7	1496.1	1524.9	1637.2	1822.5	2171.5	2260.6
42.5°	2015.6	1999.4	1925.0	1798.0	1671.6	1664.6	1674.4	1805.7	2050.0	2468.4	2514.8
45°	2287.3	2295.0	2186.9	2087.2	1936.3	1889.9	1878.0	1985.4	2302.0	2733.1	2737.3
47.5°	2538.6	2551.3	2420.7	2326.6	2177.8	2137.8	2100.5	2174.3	2540.0	2958.5	2924.1
50°	2808.9	2818.7	2637.6	2560.4	2435.4	2398.2	2370.1	2402.4	2783.6	3167.7	3090.4
52.5°	3182.4	3127.6	2900.2	2772.4	2661.5	2658.7	2636.9	2657.3	3061.0	3355.8	3216.8
55°	3623.3	3480.1	3238.6	3034.3	2891.8	2899.5	2873.5	2907.2	3335.5	3517.3	3334.0
57.5°	3779.2	3775.6	3663.3	3467.4	3178.2	3160.6	3115.7	3153.6	3572.7	3668.2	3416.9
60°	3995.4	4014.3	4027.0	3909.0	3741.9	3582.6	3432.3	3428.8	3793.9	3805.8	3457.6
62.5°	4135.1	4152.6	4250.9	4235.5	4338.7	4286.0	4114.7	3734.9	3963.1	3895.0	3473.1
65°	3873.9	3917.5	4165.3	4354.1	4705.9	4779.6	4755.0	4205.3	4078.2	3921.0	3444.3
67.5°	3401.4	3458.3	3730.0	4171.6	4933.3	5015.5	4970.5	4679.2	4128.1	3909.7	3364.9
68°	3313.0	3362.1	3628.9	4110.5	4956.5	5028.1	4987.4	4714.3	4130.2	3908.3	3334.8
70°	2887.5	2927.6	3188.0	3797.4	4891.9	4958.6	4953.0	4747.3	4111.9	3864.8	3131.9
72.5°	2240.3	2280.3	2511.2	3149.4	4593.5	4715.7	4710.8	4615.3	4078.2	3643.0	2625.7
75°	1619.6	1663.9	1874.5	2420.0	3975.0	4243.9	4298.0	4389.2	3727.9	3065.9	1868.2
77.5°	1169.6	1201.9	1383.7	1828.1	3247.0	3554.5	3664.0	3756.0	3051.1	2234.6	888.8
80°	780.0	803.1	978.7	1359.2	2446.0	2627.1	2745.0	2591.3	1736.2	808.1	96.2
82.5°	480.2	494.9	633.3	953.4	1691.9	1748.8	1749.5	1382.3	559.5	77.2	52.0
85°	257.7	262.6	344.0	520.2	893.7	936.5	919.7	580.6	113.0	41.4	28.1
87.5°	41.4	44.9	108.1	195.2	275.9	212.7	136.2	42.8	11.2	6.3	4.2
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: P233772

CATALOG NUMBER: VERD-C028-D-U-T4-8027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6	931.6
2.5°	928.1	926.0	920.4	917.6	910.6	912.7	912.7	907.1	909.9	921.1	919.7
5°	936.5	937.2	923.9	916.9	901.4	897.2	890.9	882.5	881.8	889.5	890.2
7.5°	943.6	947.1	928.1	914.1	893.0	878.3	865.6	850.9	847.4	852.3	852.3
10°	954.8	958.3	934.4	914.8	883.9	860.0	838.3	819.3	811.6	811.6	812.3
12.5°	984.3	982.2	954.8	924.6	888.1	850.2	815.8	790.5	772.3	771.6	768.7
15°	1025.0	1017.3	990.6	945.0	897.9	849.5	801.7	762.4	730.8	722.4	718.9
17.5°	1068.5	1058.7	1026.4	970.9	913.4	848.8	785.6	730.8	678.2	657.8	651.5
20°	1115.6	1103.6	1070.6	1001.1	928.8	843.9	761.7	685.2	613.6	575.0	565.2
22.5°	1167.5	1157.7	1117.7	1032.0	939.3	833.3	724.5	627.6	536.4	480.9	476.7
25°	1234.9	1225.8	1166.8	1059.4	940.0	813.7	675.4	553.9	439.5	374.2	360.9
27.5°	1315.6	1299.5	1206.1	1076.2	928.8	779.3	611.5	455.6	326.5	271.7	270.3
30°	1403.4	1373.9	1237.7	1080.5	903.5	724.5	523.7	334.9	231.7	194.5	194.5
32.5°	1506.6	1452.5	1270.0	1073.4	862.1	648.7	400.9	232.4	159.4	141.8	141.8
35°	1657.5	1574.0	1311.4	1055.9	803.9	544.1	285.0	153.7	125.7	123.6	123.6
37.5°	1896.2	1757.2	1367.6	1026.4	723.8	414.9	185.3	118.6	120.1	120.1	119.3
40°	2150.4	1969.3	1444.8	979.4	623.4	286.4	121.5	112.3	114.4	115.8	115.1
42.5°	2380.0	2170.7	1529.1	916.2	504.8	180.4	110.9	108.1	106.7	108.1	108.8
45°	2578.6	2345.6	1614.0	834.0	372.8	117.9	108.1	101.8	97.6	98.3	99.0
47.5°	2748.5	2483.2	1671.6	747.7	247.1	104.6	104.6	93.4	89.2	89.2	89.2
50°	2897.4	2605.3	1706.7	644.5	147.4	103.2	98.3	85.7	81.4	80.7	81.4
52.5°	3005.5	2691.0	1702.5	518.8	99.0	99.7	89.9	78.6	73.7	75.1	75.8
55°	3091.1	2745.0	1665.3	379.8	92.7	93.4	83.5	70.9	67.4	68.1	68.1
57.5°	3145.2	2758.4	1589.4	247.1	90.6	83.5	75.1	63.2	59.0	59.0	59.0
60°	3162.7	2751.3	1486.2	158.0	89.9	75.1	68.1	56.9	52.7	52.7	52.7
62.5°	3148.0	2710.6	1311.4	113.7	83.5	70.2	61.8	50.5	46.3	44.9	44.9
65°	3095.4	2601.8	1011.0	94.1	75.1	64.6	56.2	45.6	40.0	37.9	37.2
67.5°	2941.6	2365.9	588.3	88.5	68.1	59.0	52.0	41.4	35.1	31.6	30.9
68°	2901.6	2295.7	483.7	87.8	68.1	58.3	51.2	40.0	33.7	30.2	29.5
70°	2615.1	1852.0	139.0	83.5	66.7	56.2	47.0	36.5	30.2	26.0	25.3
72.5°	1969.3	1085.4	87.1	74.4	66.0	49.8	45.6	36.5	26.7	22.5	21.1
75°	1099.4	247.1	73.7	55.5	61.8	49.1	44.9	33.0	23.9	18.3	17.6
77.5°	226.1	71.6	63.2	38.6	47.0	42.8	37.9	28.1	21.8	14.0	13.3
80°	63.9	53.4	56.2	28.1	26.7	30.2	28.1	24.6	16.1	10.5	10.5
82.5°	41.4	39.3	50.5	19.0	14.0	14.0	18.3	14.7	14.0	8.4	8.4
85°	25.3	33.0	24.6	8.4	7.0	5.6	6.3	6.3	8.4	5.6	5.6
87.5°	3.5	3.5	3.5	3.5	3.5	2.8	2.1	2.1	2.1	2.8	2.8
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)