

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: P233770

Luminaire Tested: **VERD-C01H-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233770  
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-T4-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1210mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7989 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

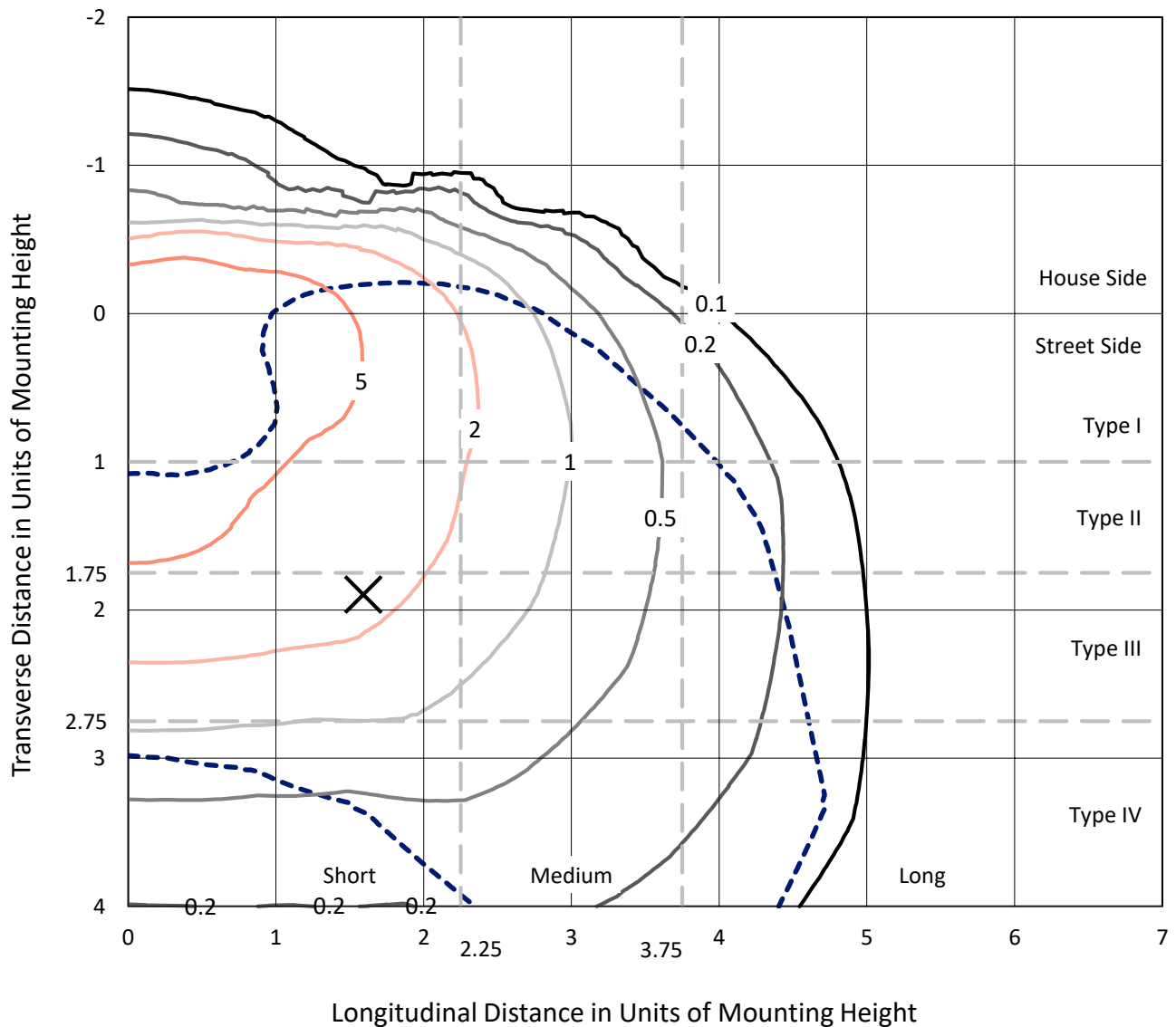
Input Watts (W): 73  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P233770  
 CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

### Iso-Footcandle Lines of Horizontal Illumination

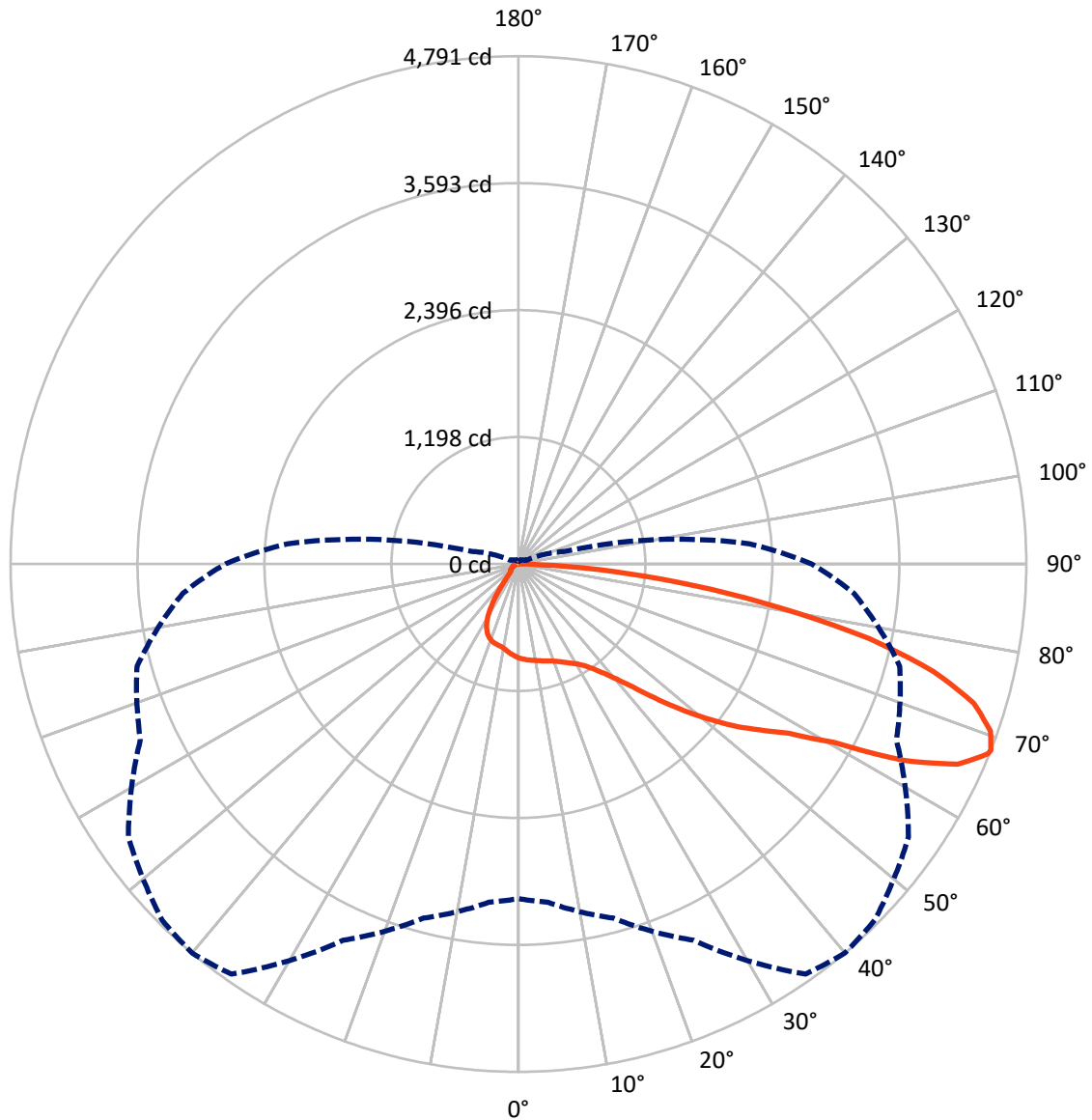
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233770  
CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P233770

CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1296.0	0.0	1296.0
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	6693.0	0.0	6693.0
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	7989.0	0.0	7989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	1.1
10°-20°	252.3	3.2
20°-30°	423.4	5.3
30°-40°	627.0	7.8
40°-50°	1060.7	13.3
50°-60°	1618.8	20.3
60°-70°	2119.7	26.5
70°-80°	1523.9	19.1
80°-90°	279.0	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°	7989.0	100.0
0°-180°	7989.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P233770

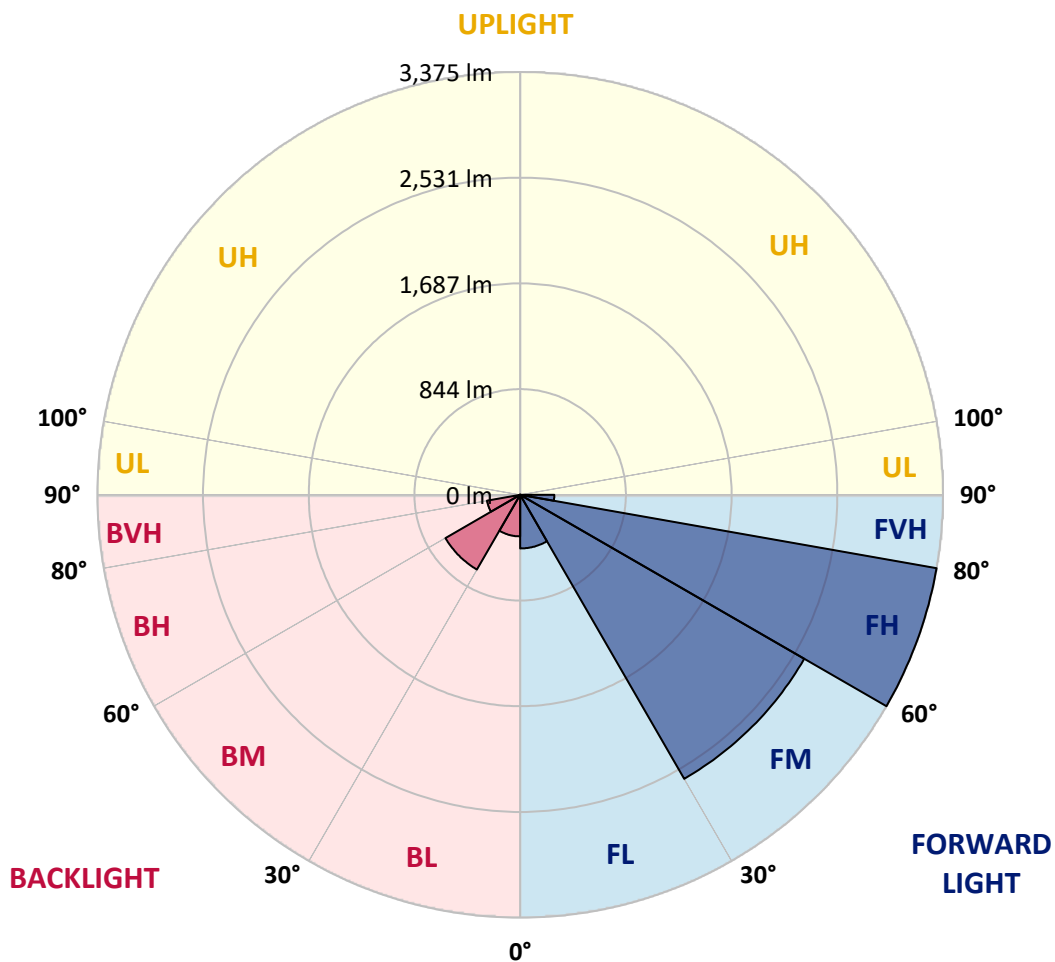
CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.3	5.4			
FM (30°-60°)	2617.7	32.8			
FH (60°-80°)	3374.7	42.2			G2/5000
FVH (80°-90°)	272.3	3.4			G3/500
BL (0°-30°)	331.6	4.2	B1/500		
BM (30°-60°)	688.8	8.6	B1/1000		
BH (60°-80°)	268.9	3.4	B1/500		G1/500
BVH (80°-90°)	6.6	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: P233770

CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7
2.5°	915.8	917.8	915.2	908.5	901.1	897.1	896.4	895.8	892.4	887.7	881.0
5°	925.2	925.9	923.2	917.8	911.1	909.8	907.8	908.5	906.5	901.8	894.4
7.5°	929.2	930.5	927.2	921.9	916.5	916.5	915.8	917.8	916.5	914.5	905.8
10°	927.9	929.9	927.9	925.9	923.9	925.9	924.5	929.2	929.9	929.9	919.8
12.5°	925.9	928.5	929.2	931.2	934.6	936.6	939.2	949.3	954.0	957.3	949.3
15°	927.9	929.2	934.6	937.9	944.6	949.3	955.3	972.0	980.1	989.4	985.4
17.5°	936.6	939.9	947.9	951.3	958.0	961.3	968.7	989.4	1005.5	1022.2	1024.9
20°	955.3	957.3	970.7	972.0	975.4	978.7	986.7	1009.5	1033.6	1057.7	1064.3
22.5°	976.0	980.7	993.4	991.4	998.1	999.5	1006.8	1031.6	1065.0	1094.4	1109.2
25°	997.4	1001.5	1014.2	1015.5	1023.5	1028.9	1037.6	1061.7	1104.5	1141.9	1168.0
27.5°	1015.5	1023.5	1035.6	1036.9	1052.3	1059.0	1071.7	1099.1	1150.6	1196.8	1239.6
30°	1049.0	1051.0	1062.3	1066.3	1087.1	1093.1	1107.8	1142.6	1205.5	1263.0	1329.9
32.5°	1090.4	1089.8	1100.5	1107.2	1132.6	1143.3	1162.0	1202.2	1271.7	1343.3	1438.3
35°	1166.7	1160.0	1166.7	1173.4	1202.8	1214.2	1234.3	1294.5	1376.1	1497.8	1614.9
37.5°	1342.0	1331.9	1317.9	1284.4	1291.8	1306.5	1335.9	1417.6	1538.0	1764.1	1877.1
40°	1645.7	1623.6	1564.7	1476.4	1424.3	1425.6	1453.0	1560.1	1736.7	2069.1	2154.1
42.5°	1920.6	1905.2	1834.3	1713.2	1592.8	1586.1	1595.5	1720.6	1953.4	2352.1	2396.3
45°	2179.5	2186.9	2083.9	1988.9	1845.0	1800.9	1789.5	1891.9	2193.6	2604.3	2608.3
47.5°	2419.0	2431.1	2306.6	2217.0	2075.2	2037.0	2001.6	2071.8	2420.4	2819.1	2786.3
50°	2676.6	2685.9	2513.3	2439.8	2320.7	2285.2	2258.5	2289.2	2652.5	3018.4	2944.8
52.5°	3032.5	2980.3	2763.5	2641.8	2536.1	2533.4	2512.7	2532.1	2916.7	3197.7	3065.3
55°	3452.6	3316.1	3086.0	2891.3	2755.5	2762.9	2738.1	2770.2	3178.3	3351.6	3177.0
57.5°	3601.1	3597.8	3490.7	3304.1	3028.5	3011.7	2968.9	3005.0	3404.4	3495.4	3255.9
60°	3807.1	3825.2	3837.3	3724.9	3565.6	3413.8	3270.6	3267.3	3615.2	3626.5	3294.7
62.5°	3940.3	3957.0	4050.7	4035.9	4134.3	4084.1	3920.9	3559.0	3776.4	3711.5	3309.4
65°	3691.4	3732.9	3969.0	4149.0	4484.2	4554.4	4531.0	4007.2	3886.1	3736.2	3282.0
67.5°	3241.2	3295.4	3554.3	3975.1	4700.9	4779.2	4736.4	4458.7	3933.6	3725.5	3206.4
68°	3156.9	3203.7	3457.9	3916.9	4723.0	4791.2	4752.4	4492.2	3935.6	3724.2	3177.6
70°	2751.5	2789.6	3037.8	3618.5	4661.4	4725.0	4719.6	4523.6	3918.2	3682.7	2984.3
72.5°	2134.7	2172.8	2392.9	3001.0	4377.1	4493.5	4488.8	4397.9	3886.1	3471.3	2502.0
75°	1543.3	1585.5	1786.2	2306.0	3787.7	4044.0	4095.5	4182.4	3552.3	2921.4	1780.1
77.5°	1114.5	1145.3	1318.6	1742.0	3094.0	3387.0	3491.4	3579.0	2907.4	2129.4	846.9
80°	743.2	765.3	932.6	1295.1	2330.7	2503.3	2615.7	2469.2	1654.4	770.0	91.6
82.5°	457.6	471.6	603.4	908.5	1612.2	1666.4	1667.1	1317.2	533.2	73.6	49.5
85°	245.5	250.2	327.8	495.7	851.6	892.4	876.4	553.2	107.7	39.5	26.8
87.5°	39.5	42.8	103.0	186.0	262.9	202.7	129.8	40.8	10.7	6.0	4.0
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: P233770

CATALOG NUMBER: VERD-C01H-D-U-T4-8027-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7	887.7
2.5°	884.4	882.4	877.0	874.4	867.7	869.7	869.7	864.3	867.0	877.7	876.4
5°	892.4	893.1	880.4	873.7	859.0	855.0	848.9	840.9	840.2	847.6	848.3
7.5°	899.1	902.4	884.4	871.0	850.9	836.9	824.8	810.8	807.5	812.1	812.1
10°	909.8	913.2	890.4	871.7	842.2	819.5	798.8	780.7	773.3	773.3	774.0
12.5°	937.9	935.9	909.8	881.0	846.3	810.1	777.4	753.3	735.9	735.2	732.5
15°	976.7	969.3	943.9	900.4	855.6	809.5	764.0	726.5	696.4	688.4	685.0
17.5°	1018.2	1008.8	978.0	925.2	870.3	808.8	748.6	696.4	646.2	626.8	620.8
20°	1063.0	1051.6	1020.2	954.0	885.1	804.1	725.8	652.9	584.7	547.9	538.5
22.5°	1112.5	1103.1	1065.0	983.4	895.1	794.1	690.4	598.1	511.1	458.2	454.2
25°	1176.7	1168.0	1111.8	1009.5	895.8	775.3	643.6	527.8	418.8	356.6	343.9
27.5°	1253.7	1238.3	1149.3	1025.5	885.1	742.6	582.7	434.2	311.1	258.9	257.6
30°	1337.3	1309.2	1179.4	1029.6	861.0	690.4	499.1	319.1	220.8	185.3	185.3
32.5°	1435.6	1384.1	1210.2	1022.9	821.5	618.1	382.0	221.4	151.9	135.1	135.1
35°	1579.5	1499.8	1249.6	1006.1	766.0	518.5	271.6	146.5	119.7	117.7	117.7
37.5°	1806.9	1674.4	1303.2	978.0	689.7	395.4	176.6	113.1	114.4	114.4	113.7
40°	2049.1	1876.5	1376.8	933.2	594.1	272.9	115.7	107.0	109.0	110.4	109.7
42.5°	2267.8	2068.5	1457.0	873.0	481.0	171.9	105.7	103.0	101.7	103.0	103.7
45°	2457.2	2235.1	1538.0	794.7	355.2	112.4	103.0	97.0	93.0	93.7	94.3
47.5°	2619.0	2366.2	1592.8	712.5	235.5	99.7	99.7	89.0	85.0	85.0	85.0
50°	2760.9	2482.6	1626.3	614.1	140.5	98.3	93.7	81.6	77.6	76.9	77.6
52.5°	2863.9	2564.2	1622.3	494.4	94.3	95.0	85.6	74.9	70.2	71.6	72.2
55°	2945.5	2615.7	1586.8	361.9	88.3	89.0	79.6	67.6	64.2	64.9	64.9
57.5°	2997.0	2628.4	1514.6	235.5	86.3	79.6	71.6	60.2	56.2	56.2	56.2
60°	3013.7	2621.7	1416.2	150.5	85.6	71.6	64.9	54.2	50.2	50.2	50.2
62.5°	2999.7	2582.9	1249.6	108.4	79.6	66.9	58.9	48.2	44.2	42.8	42.8
65°	2949.5	2479.2	963.3	89.6	71.6	61.5	53.5	43.5	38.1	36.1	35.5
67.5°	2803.0	2254.5	560.6	84.3	64.9	56.2	49.5	39.5	33.4	30.1	29.4
68°	2764.9	2187.6	460.9	83.6	64.9	55.5	48.8	38.1	32.1	28.8	28.1
70°	2491.9	1764.8	132.5	79.6	63.6	53.5	44.8	34.8	28.8	24.8	24.1
72.5°	1876.5	1034.2	83.0	70.9	62.9	47.5	43.5	34.8	25.4	21.4	20.1
75°	1047.6	235.5	70.2	52.8	58.9	46.8	42.8	31.4	22.7	17.4	16.7
77.5°	215.4	68.2	60.2	36.8	44.8	40.8	36.1	26.8	20.7	13.4	12.7
80°	60.9	50.8	53.5	26.8	25.4	28.8	26.8	23.4	15.4	10.0	10.0
82.5°	39.5	37.5	48.2	18.1	13.4	13.4	17.4	14.0	13.4	8.0	8.0
85°	24.1	31.4	23.4	8.0	6.7	5.4	6.0	6.0	8.0	5.4	5.4
87.5°	3.3	3.3	3.3	3.3	3.3	2.7	2.0	2.0	2.0	2.7	2.7
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)