

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: P233589

Luminaire Tested: **VERD-C026-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C026-D-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 790mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7960 lumens
Efficiency: N/A
Efficacy: 128.4 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): 62
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

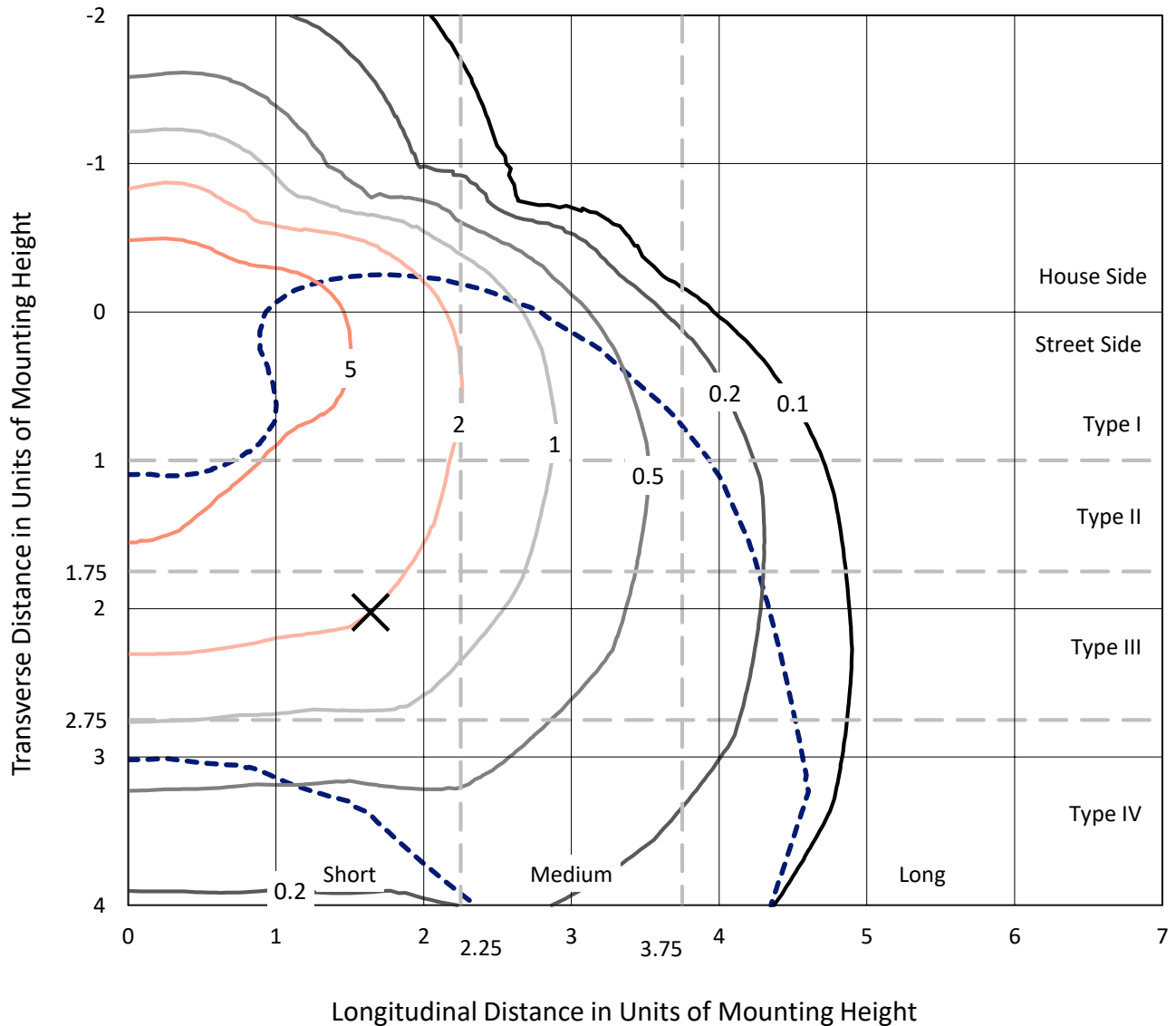


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

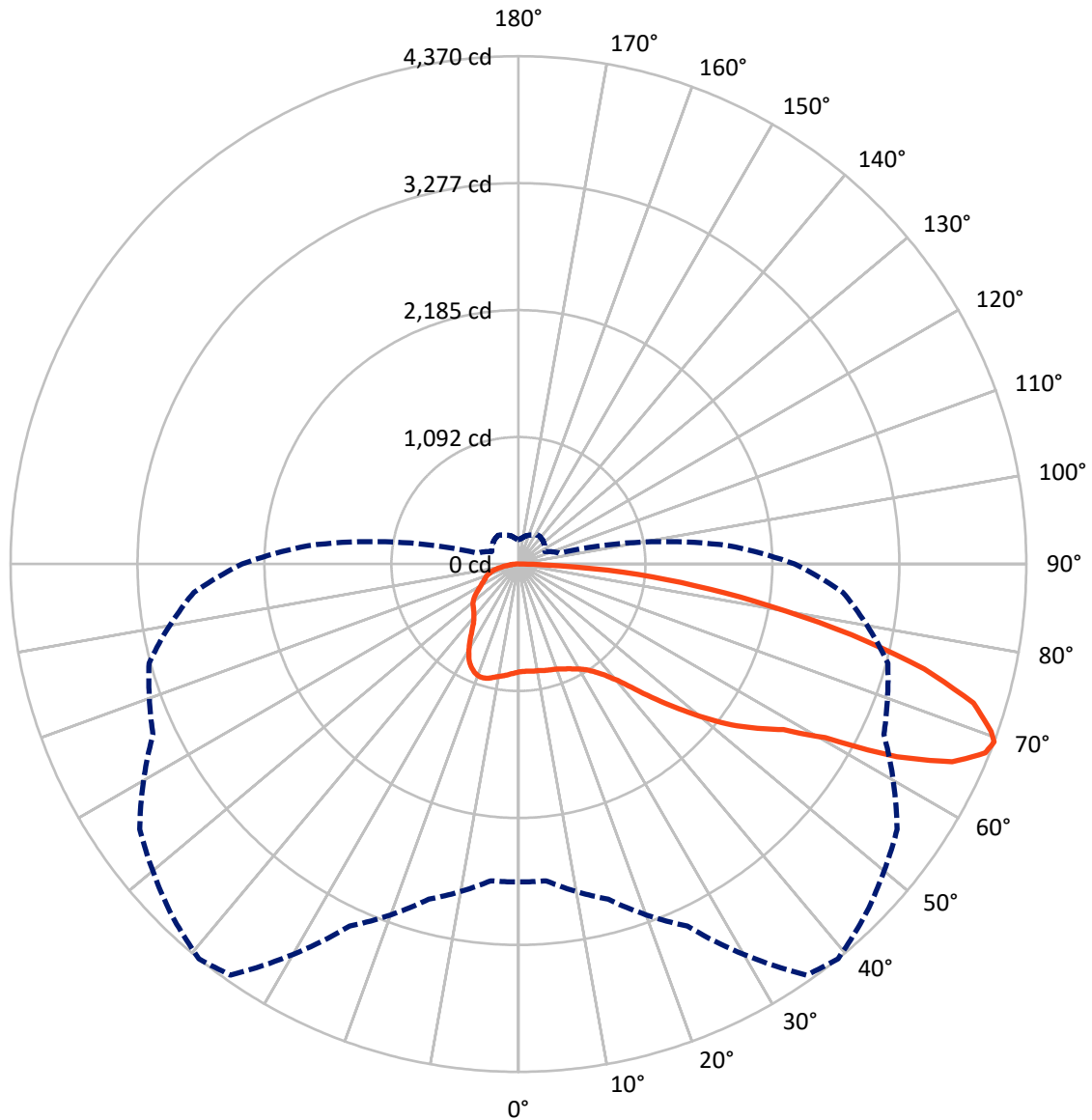


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1866.0	0.0	1866.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6094.0	0.0	6094.0
	% Fixture	76.6	0.0	76.6
Total	Lumens	7960.0	0.0	7960.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.1
10°-20°	278.5	3.5
20°-30°	468.8	5.9
30°-40°	679.2	8.5
40°-50°	1097.9	13.8
50°-60°	1607.3	20.2
60°-70°	2011.7	25.3
70°-80°	1438.2	18.1
80°-90°	288.3	3.6
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°	7960.0	100.0
0°-180°	7960.0	100.0



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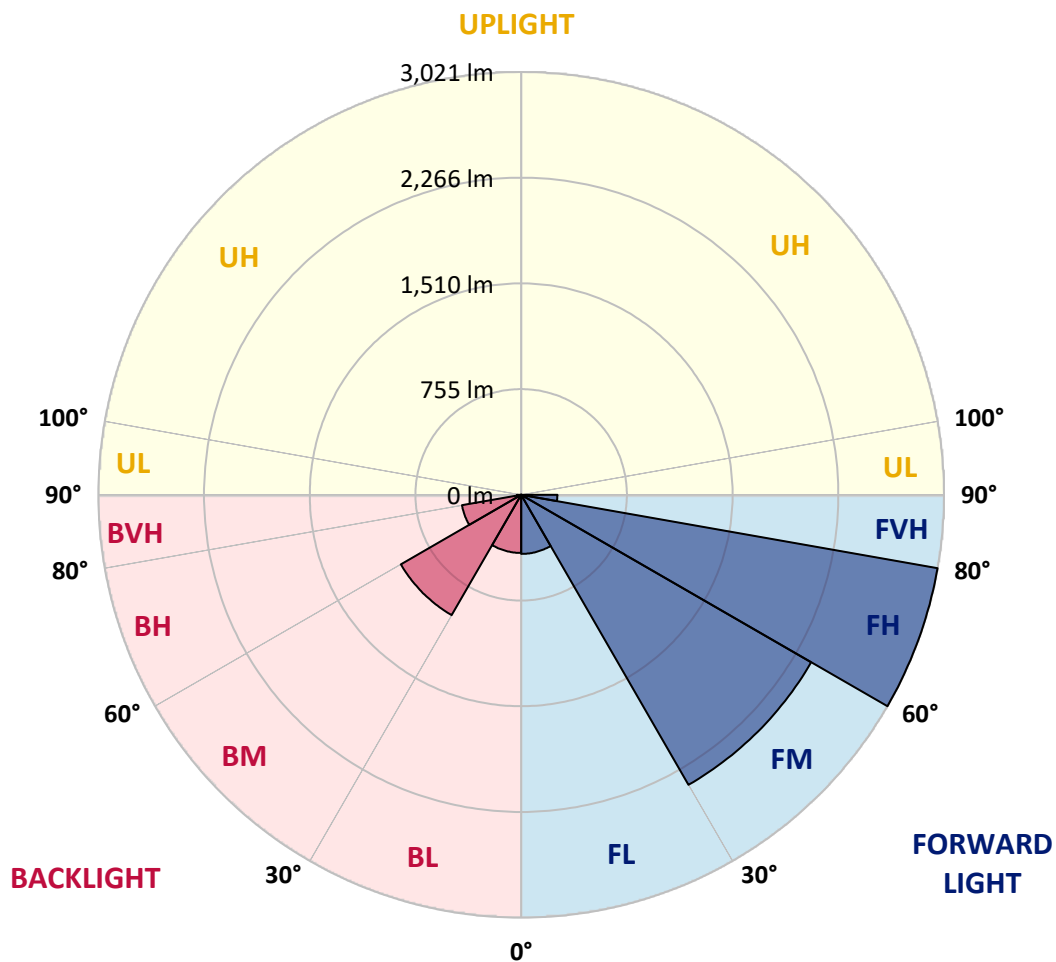
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.3	5.3			
FM (30°-60°)	2392.1	30.1			
FH (60°-80°)	3020.8	37.9			G2/5000
FVH (80°-90°)	258.9	3.3			G3/500
BL (0°-30°)	415.1	5.2	B1/500		
BM (30°-60°)	992.3	12.5	B1/1000		
BH (60°-80°)	429.1	5.4	B1/500		G1/500
BVH (80°-90°)	29.5	0.4			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	943.3	941.9	938.9	927.2	925.7	925.0	926.5	922.1	921.3	922.8	921.3
5°	944.1	942.6	938.9	928.7	927.2	925.7	926.5	922.8	923.5	927.2	927.2
7.5°	945.5	944.1	940.4	929.4	932.3	930.9	933.8	928.7	928.7	931.6	932.3
10°	941.9	941.1	938.9	930.9	935.3	932.3	935.3	936.0	938.9	941.1	940.4
12.5°	932.3	932.3	932.3	928.7	941.1	940.4	945.5	950.7	958.0	961.7	963.9
15°	926.5	925.7	930.9	930.1	945.5	947.7	956.5	969.7	980.7	990.3	993.2
17.5°	932.3	932.3	938.9	937.5	952.9	954.3	963.9	982.9	1001.3	1019.6	1027.7
20°	938.9	939.7	947.7	949.9	964.6	963.9	973.4	996.9	1021.8	1049.0	1062.9
22.5°	959.5	958.7	965.3	960.9	977.8	980.7	988.8	1009.3	1044.6	1079.0	1101.8
25°	974.9	977.1	983.7	980.7	994.7	998.3	1011.5	1031.3	1073.2	1114.2	1154.6
27.5°	989.5	993.9	999.1	998.3	1017.4	1021.8	1032.1	1062.9	1111.3	1160.4	1216.9
30°	1011.5	1010.1	1013.7	1020.3	1045.3	1048.2	1060.7	1098.1	1156.8	1220.6	1296.2
32.5°	1040.9	1039.4	1043.1	1049.0	1079.0	1086.4	1103.2	1143.6	1217.7	1294.7	1387.1
35°	1087.1	1090.8	1093.7	1101.0	1130.4	1140.6	1163.4	1214.7	1300.6	1423.8	1555.8
37.5°	1247.7	1239.7	1223.5	1194.2	1202.3	1214.0	1246.3	1319.6	1444.3	1653.4	1774.4
40°	1498.6	1489.1	1438.5	1352.6	1313.8	1316.7	1348.2	1448.0	1618.2	1923.3	2034.8
42.5°	1734.8	1723.1	1662.9	1555.8	1478.8	1470.0	1472.9	1588.1	1808.9	2193.3	2252.7
45°	1957.8	1963.7	1872.0	1789.8	1701.8	1661.5	1649.0	1734.8	2020.9	2427.3	2445.6
47.5°	2171.3	2175.7	2072.2	1993.0	1907.9	1861.0	1836.8	1903.5	2216.0	2616.5	2599.6
50°	2389.1	2400.9	2259.3	2191.8	2113.3	2079.6	2056.1	2100.1	2431.7	2797.7	2745.6
52.5°	2696.5	2647.3	2461.7	2366.4	2310.6	2300.4	2276.2	2312.1	2660.5	2957.6	2849.0
55°	3038.3	2933.4	2738.3	2571.8	2494.7	2494.7	2473.5	2515.3	2896.7	3077.2	2933.4
57.5°	3149.1	3159.3	3091.8	2910.7	2703.8	2687.7	2667.1	2724.3	3099.2	3184.3	2964.9
60°	3342.7	3371.3	3423.4	3272.3	3170.3	3033.2	2908.5	2939.3	3273.8	3272.3	2998.7
62.5°	3438.8	3465.9	3628.8	3547.4	3643.5	3653.0	3419.7	3182.1	3402.9	3316.3	3014.8
65°	3347.8	3366.9	3584.0	3691.1	3969.9	4102.6	3987.5	3508.5	3471.1	3298.0	2954.7
67.5°	3049.3	3085.2	3265.0	3591.4	4261.1	4335.2	4227.3	3956.7	3500.4	3303.8	2906.3
69°	2735.3	2736.1	2985.5	3438.1	4318.3	4369.7	4237.6	3977.9	3469.6	3289.9	2802.8
70°	2558.6	2576.9	2761.8	3305.3	4297.0	4313.9	4212.7	3977.2	3448.3	3285.5	2704.5
72.5°	1996.7	1987.1	2171.3	2764.0	4056.4	4093.8	3982.3	3865.0	3430.7	3096.2	2287.9
75°	1395.9	1425.3	1605.7	2094.2	3495.3	3607.5	3607.5	3713.1	3157.9	2645.9	1654.1
77.5°	1038.7	1043.1	1187.6	1599.8	2812.4	2929.0	3036.1	3124.8	2468.3	1812.6	739.4
80°	703.5	710.1	842.1	1180.3	2084.0	2191.1	2360.5	2150.0	1468.5	627.2	84.4
82.5°	443.1	451.9	556.8	828.9	1485.4	1533.8	1585.9	1214.0	489.3	72.6	53.5
85°	263.3	264.8	336.0	529.6	905.9	908.8	853.1	559.0	131.3	43.3	33.7
87.5°	110.0	115.9	146.7	234.7	265.5	209.8	130.6	44.7	19.8	17.6	11.7
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°	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2	927.2
2.5°	916.9	925.0	923.5	925.7	928.7	934.5	941.1	938.2	941.9	949.9	949.9
5°	925.0	931.6	933.8	938.2	941.9	947.7	952.1	950.7	958.7	970.5	970.5
7.5°	931.6	936.7	944.1	949.2	952.9	964.6	969.0	966.1	971.9	985.9	986.6
10°	941.1	946.3	957.3	962.4	969.7	975.6	981.5	980.7	986.6	999.1	1001.3
12.5°	964.6	968.3	983.7	991.0	991.0	998.3	993.9	986.6	989.5	996.9	998.3
15°	995.4	1000.5	1020.3	1024.0	1020.3	1021.8	1011.5	988.1	976.3	978.5	979.3
17.5°	1030.6	1039.4	1062.2	1057.0	1052.6	1041.6	1015.2	980.0	944.8	931.6	933.8
20°	1068.0	1079.0	1105.4	1094.4	1078.3	1049.7	1007.1	947.0	892.7	861.2	859.7
22.5°	1111.3	1125.2	1150.2	1131.1	1095.2	1045.3	980.0	906.6	837.7	788.5	785.6
25°	1170.7	1186.1	1194.9	1156.8	1098.1	1029.1	941.1	851.6	765.1	706.4	702.0
27.5°	1238.2	1246.3	1228.7	1171.5	1084.2	994.7	892.7	781.9	686.6	638.2	631.6
30°	1313.0	1306.4	1251.4	1164.1	1048.2	940.4	817.2	693.2	616.9	578.0	572.2
32.5°	1399.6	1379.0	1269.0	1143.6	1000.5	869.2	735.0	636.7	575.8	536.9	534.0
35°	1541.9	1483.2	1297.6	1112.0	937.5	785.6	659.4	588.3	540.6	492.2	484.9
37.5°	1748.0	1637.2	1339.4	1082.7	869.2	704.9	602.2	549.4	507.6	453.3	443.1
40°	1962.2	1818.4	1408.4	1050.4	805.4	645.5	570.7	533.3	492.2	440.9	426.9
42.5°	2158.1	1990.8	1489.1	1010.1	738.7	597.8	555.3	528.9	487.8	439.4	428.4
45°	2335.6	2152.9	1572.0	963.9	665.3	559.7	542.8	520.8	479.0	432.8	424.0
47.5°	2485.2	2290.8	1655.6	910.3	594.9	536.2	529.6	506.1	467.3	422.5	415.2
50°	2609.2	2389.8	1703.3	853.8	536.9	518.6	510.5	481.2	441.6	399.8	395.4
52.5°	2700.9	2451.5	1746.5	823.8	491.5	490.0	484.9	456.3	418.1	374.8	366.0
55°	2764.7	2502.1	1727.5	800.3	443.1	454.1	451.1	433.5	401.2	350.6	343.3
57.5°	2768.4	2506.5	1686.4	660.9	395.4	410.8	415.9	418.8	382.9	338.2	329.4
60°	2764.7	2474.2	1610.1	484.9	349.2	367.5	386.6	386.6	361.6	317.6	311.0
62.5°	2747.8	2410.4	1432.6	345.5	312.5	336.7	361.6	350.6	329.4	294.1	287.5
65°	2670.8	2304.0	1120.8	281.7	297.1	319.1	330.8	315.4	288.3	251.6	248.7
67.5°	2530.7	2060.5	648.4	258.2	283.9	303.7	313.2	289.7	264.1	228.9	227.4
69°	2376.6	1814.0	365.3	252.3	275.8	293.4	301.5	275.8	250.9	217.1	210.5
70°	2238.7	1594.0	237.7	247.2	267.7	286.8	292.7	266.3	242.8	208.3	203.9
72.5°	1695.9	960.2	159.9	225.9	245.7	260.4	269.2	244.3	217.9	183.4	174.6
75°	926.5	261.1	140.8	193.7	218.6	238.4	240.6	209.1	170.9	135.7	132.0
77.5°	180.4	89.5	121.0	159.9	173.8	197.3	195.9	174.6	148.2	115.2	110.8
80°	68.2	64.6	101.2	114.4	122.5	147.4	156.2	140.8	123.2	78.5	67.5
82.5°	46.2	47.7	75.6	67.5	74.8	87.3	110.0	107.1	97.6	53.5	47.7
85°	32.3	37.4	41.8	28.6	36.7	55.0	72.6	70.4	60.1	37.4	33.7
87.5°	9.5	10.3	11.7	14.7	22.7	41.1	59.4	49.1	33.0	27.9	24.2
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)