

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: P233565

Luminaire Tested: **VERD-C029-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233565
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-C029-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1030mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8813 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 81
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

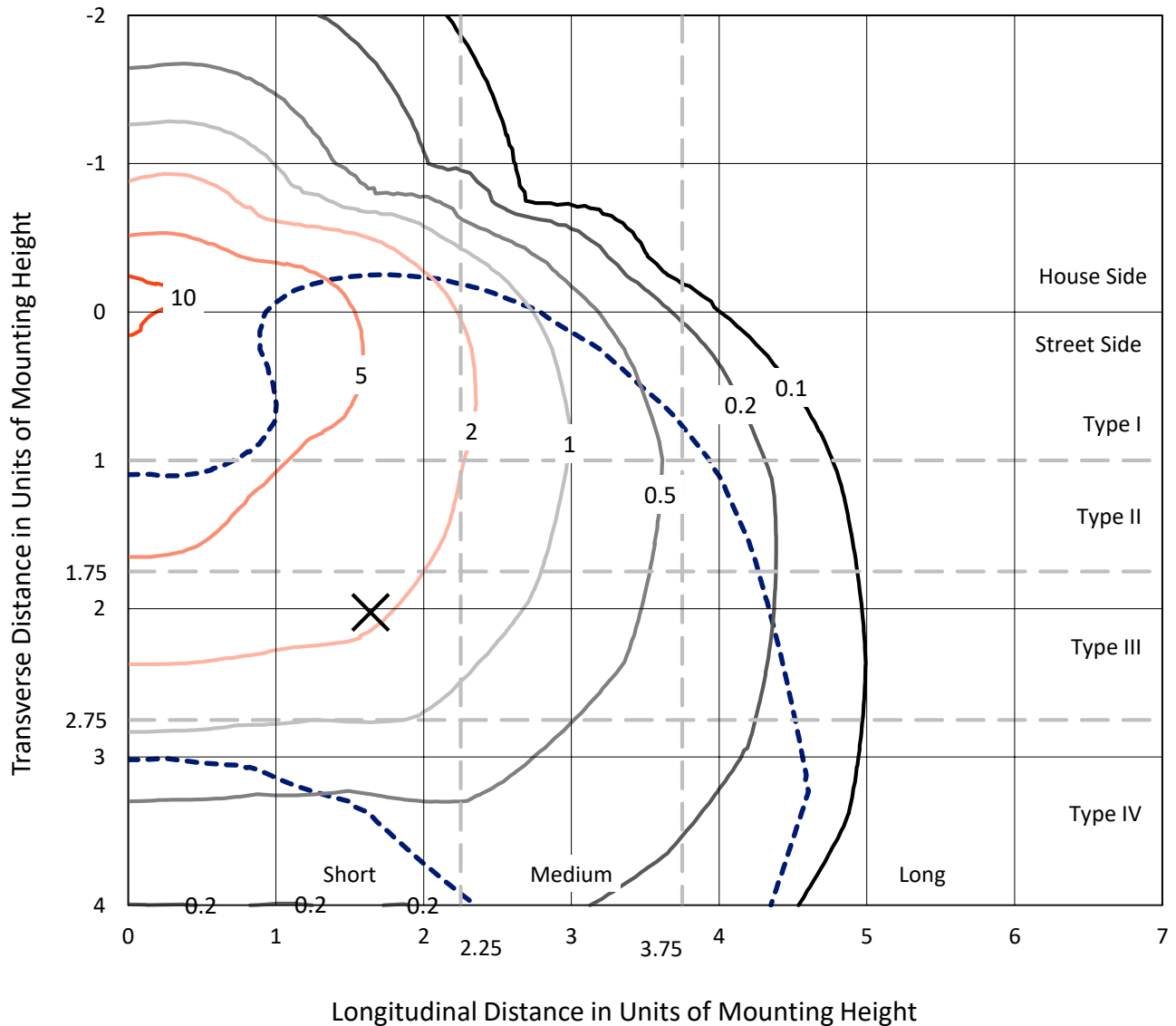


REPORT NUMBER: P233565

CATALOG NUMBER: VERD-C029-D-U-T4-8027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

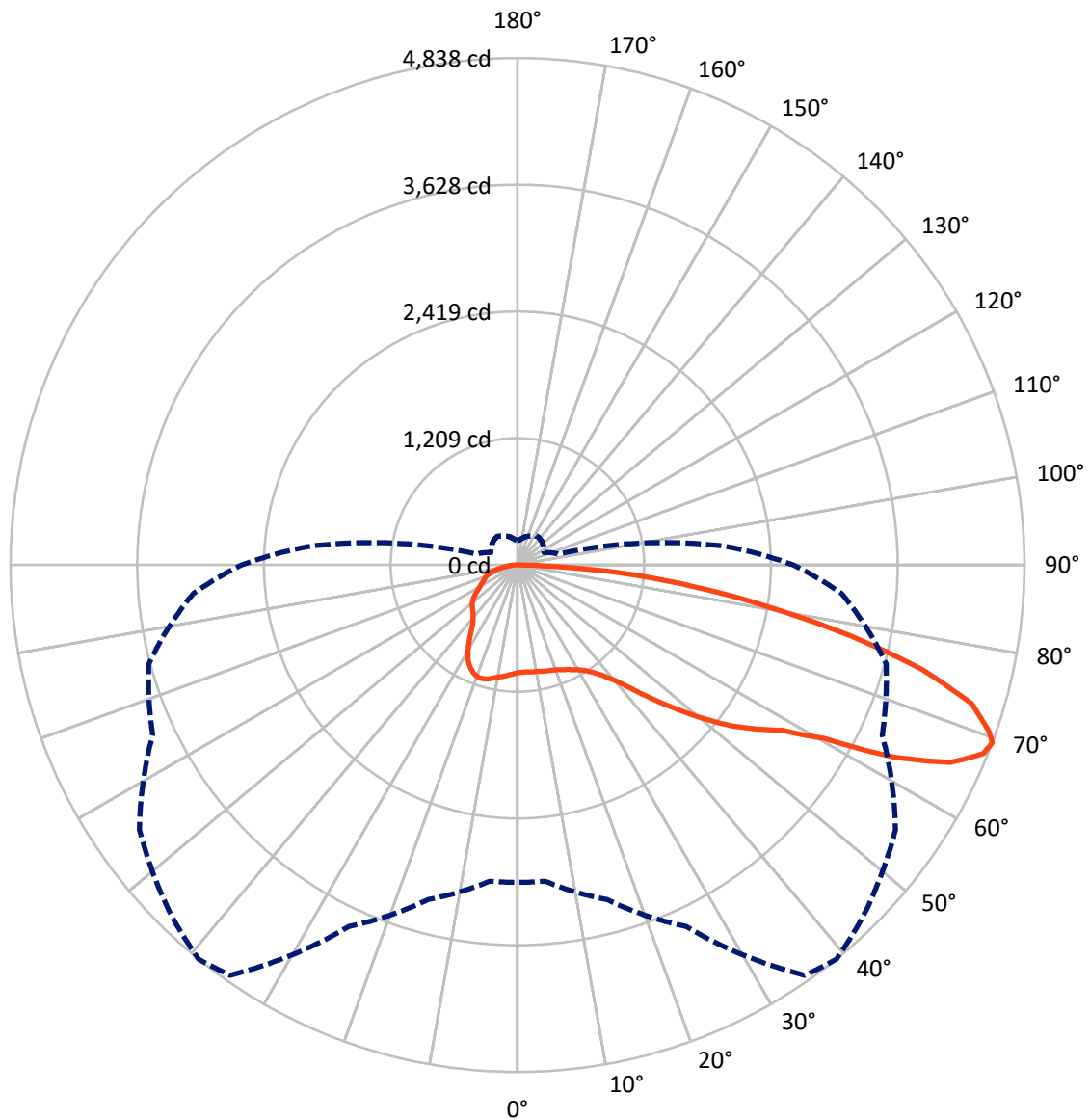


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233565

CATALOG NUMBER: VERD-C029-D-U-T4-8027

Luminous Intensity Polar Plot



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



REPORT NUMBER: P233565

CATALOG NUMBER: VERD-C029-D-U-T4-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.9	0.0	2065.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6747.1	0.0	6747.1
	% Fixture	76.6	0.0	76.6
Total	Lumens	8813.0	0.0	8813.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	1.1
10°-20°	308.3	3.5
20°-30°	519.1	5.9
30°-40°	752.0	8.5
40°-50°	1215.5	13.8
50°-60°	1779.5	20.2
60°-70°	2227.3	25.3
70°-80°	1592.3	18.1
80°-90°	319.2	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°	8813.0	100.0
0°-180°	8813.0	100.0



REPORT NUMBER: P233565

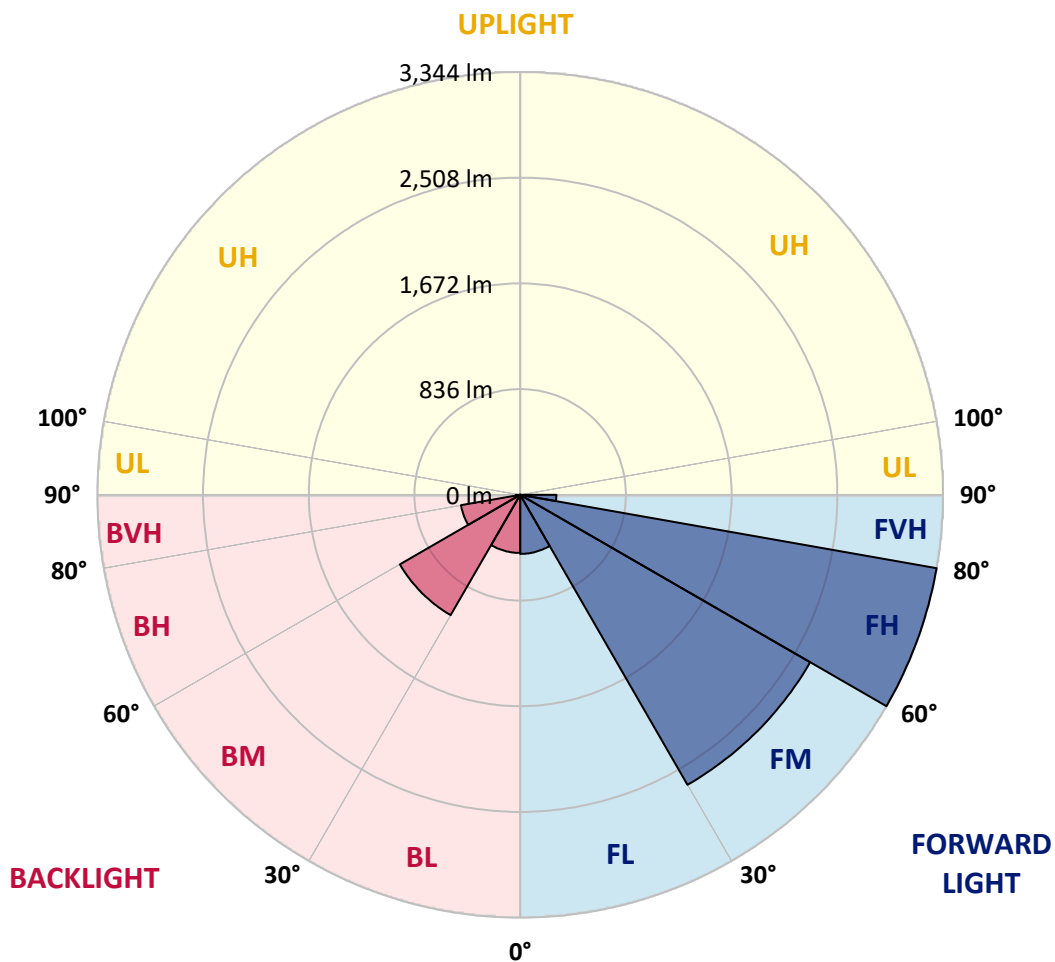
CATALOG NUMBER: VERD-C029-D-U-T4-8027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.5	5.3			
FM	(30°-60°)	2648.4	30.1			
FH	(60°-80°)	3344.5	37.9			G2/5000
FVH	(80°-90°)	286.6	3.3			G3/500
BL	(0°-30°)	459.6	5.2	B1/500		
BM	(30°-60°)	1098.6	12.5	B2/2500		
BH	(60°-80°)	475.1	5.4	B1/500		G1/500
BVH	(80°-90°)	32.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P233565

CATALOG NUMBER: VERD-C029-D-U-T4-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1044.4	1042.8	1039.5	1026.5	1024.9	1024.1	1025.7	1020.9	1020.0	1021.7	1020.0
5°	1045.2	1043.6	1039.5	1028.2	1026.5	1024.9	1025.7	1021.7	1022.5	1026.5	1026.5
7.5°	1046.8	1045.2	1041.2	1029.0	1032.2	1030.6	1033.9	1028.2	1028.2	1031.4	1032.2
10°	1042.8	1042.0	1039.5	1030.6	1035.5	1032.2	1035.5	1036.3	1039.5	1042.0	1041.2
12.5°	1032.2	1032.2	1032.2	1028.2	1042.0	1041.2	1046.8	1052.5	1060.7	1064.7	1067.2
15°	1025.7	1024.9	1030.6	1029.8	1046.8	1049.3	1059.0	1073.6	1085.8	1096.4	1099.6
17.5°	1032.2	1032.2	1039.5	1037.9	1055.0	1056.6	1067.2	1088.3	1108.6	1128.9	1137.8
20°	1039.5	1040.3	1049.3	1051.7	1068.0	1067.2	1077.7	1103.7	1131.3	1161.4	1176.8
22.5°	1062.3	1061.5	1068.8	1063.9	1082.6	1085.8	1094.8	1117.5	1156.5	1194.7	1219.8
25°	1079.3	1081.8	1089.1	1085.8	1101.3	1105.3	1119.9	1141.9	1188.2	1233.6	1278.3
27.5°	1095.6	1100.4	1106.1	1105.3	1126.4	1131.3	1142.7	1176.8	1230.4	1284.8	1347.3
30°	1119.9	1118.3	1122.4	1129.7	1157.3	1160.5	1174.4	1215.8	1280.7	1351.4	1435.0
32.5°	1152.4	1150.8	1154.9	1161.4	1194.7	1202.8	1221.5	1266.1	1348.2	1433.4	1535.8
35°	1203.6	1207.7	1210.9	1219.0	1251.5	1262.9	1288.1	1344.9	1439.9	1576.4	1722.5
37.5°	1381.4	1372.5	1354.6	1322.2	1331.1	1344.1	1379.8	1461.0	1599.1	1830.6	1964.6
40°	1659.2	1648.6	1592.6	1497.6	1454.5	1457.8	1492.7	1603.2	1791.6	2129.4	2252.9
42.5°	1920.7	1907.7	1841.1	1722.5	1637.3	1627.5	1630.8	1758.3	2002.7	2428.3	2494.1
45°	2167.6	2174.1	2072.6	1981.6	1884.2	1839.5	1825.7	1920.7	2237.4	2687.4	2707.7
47.5°	2403.9	2408.8	2294.3	2206.6	2112.4	2060.4	2033.6	2107.5	2453.5	2896.9	2878.2
50°	2645.1	2658.1	2501.4	2426.7	2339.8	2302.4	2276.4	2325.2	2692.2	3097.5	3039.8
52.5°	2985.4	2931.0	2725.5	2620.0	2558.2	2546.9	2520.1	2559.9	2945.6	3274.5	3154.3
55°	3363.9	3247.7	3031.7	2847.4	2762.1	2762.1	2738.5	2784.8	3207.1	3406.9	3247.7
57.5°	3486.5	3497.9	3423.2	3222.6	2993.5	2975.7	2952.9	3016.3	3431.3	3525.5	3282.7
60°	3700.9	3732.6	3790.3	3623.0	3510.1	3358.2	3220.1	3254.2	3624.6	3623.0	3320.0
62.5°	3807.3	3837.4	4017.7	3927.5	4033.9	4044.5	3786.2	3523.1	3767.5	3671.7	3337.9
65°	3706.6	3727.7	3968.1	4086.7	4395.3	4542.3	4414.8	3884.5	3843.0	3651.4	3271.3
67.5°	3376.1	3415.9	3614.8	3976.2	4717.7	4799.7	4680.4	4380.7	3875.5	3657.9	3217.7
69°	3028.5	3029.3	3305.4	3806.5	4781.1	4837.9	4691.7	4404.2	3841.4	3642.4	3103.2
70°	2832.7	2853.0	3057.7	3659.5	4757.5	4776.2	4664.1	4403.4	3817.9	3637.6	2994.4
72.5°	2210.6	2200.1	2403.9	3060.1	4491.1	4532.5	4409.1	4279.2	3798.4	3428.0	2533.1
75°	1545.5	1578.0	1777.8	2318.7	3869.8	3994.1	3994.1	4111.0	3496.3	2929.4	1831.4
77.5°	1150.0	1154.9	1314.9	1771.3	3113.7	3242.9	3361.4	3459.7	2732.8	2006.8	818.6
80°	778.8	786.2	932.3	1306.7	2307.3	2425.9	2613.5	2380.4	1625.9	694.4	93.4
82.5°	490.5	500.3	616.4	917.7	1644.6	1698.2	1755.8	1344.1	541.7	80.4	59.3
85°	291.6	293.2	372.0	586.4	1003.0	1006.2	944.5	618.8	145.4	47.9	37.4
87.5°	121.8	128.3	162.4	259.9	294.0	232.3	144.6	49.5	21.9	19.5	13.0
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: P233565

CATALOG NUMBER: VERD-C029-D-U-T4-8027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1015.2	1024.1	1022.5	1024.9	1028.2	1034.7	1042.0	1038.7	1042.8	1051.7	1051.7
5°	1024.1	1031.4	1033.9	1038.7	1042.8	1049.3	1054.2	1052.5	1061.5	1074.5	1074.5
7.5°	1031.4	1037.1	1045.2	1050.9	1055.0	1068.0	1072.8	1069.6	1076.1	1091.5	1092.3
10°	1042.0	1047.7	1059.8	1065.5	1073.6	1080.1	1086.6	1085.8	1092.3	1106.1	1108.6
12.5°	1068.0	1072.0	1089.1	1097.2	1097.2	1105.3	1100.4	1092.3	1095.6	1103.7	1105.3
15°	1102.1	1107.8	1129.7	1133.7	1129.7	1131.3	1119.9	1094.0	1081.0	1083.4	1084.2
17.5°	1141.1	1150.8	1176.0	1170.3	1165.4	1153.2	1124.0	1085.0	1046.0	1031.4	1033.9
20°	1182.5	1194.7	1223.9	1211.7	1193.8	1162.2	1115.1	1048.5	988.4	953.5	951.8
22.5°	1230.4	1245.8	1273.4	1252.3	1212.5	1157.3	1085.0	1003.8	927.5	873.0	869.8
25°	1296.2	1313.2	1323.0	1280.7	1215.8	1139.4	1042.0	942.9	847.1	782.1	777.2
27.5°	1370.9	1379.8	1360.3	1297.0	1200.3	1101.3	988.4	865.7	760.2	706.6	699.3
30°	1453.7	1446.4	1385.5	1288.9	1160.5	1041.2	904.7	767.5	683.0	640.0	633.5
32.5°	1549.6	1526.8	1405.0	1266.1	1107.8	962.4	813.8	704.9	637.5	594.5	591.2
35°	1707.1	1642.1	1436.7	1231.2	1037.9	869.8	730.1	651.3	598.5	544.9	536.8
37.5°	1935.3	1812.7	1483.0	1198.7	962.4	780.5	666.8	608.3	562.0	501.9	490.5
40°	2172.5	2013.3	1559.3	1163.0	891.7	714.7	631.8	590.4	544.9	488.1	472.7
42.5°	2389.3	2204.1	1648.6	1118.3	817.8	661.9	614.8	585.6	540.1	486.5	474.3
45°	2585.8	2383.6	1740.4	1067.2	736.6	619.7	601.0	576.6	530.3	479.2	469.4
47.5°	2751.5	2536.3	1833.0	1007.9	658.6	593.7	586.4	560.4	517.3	467.8	459.7
50°	2888.8	2645.9	1885.8	945.3	594.5	574.2	565.2	532.8	488.9	442.6	437.7
52.5°	2990.3	2714.2	1933.7	912.0	544.1	542.5	536.8	505.2	462.9	415.0	405.3
55°	3061.0	2770.2	1912.6	886.0	490.5	502.7	499.5	480.0	444.2	388.2	380.1
57.5°	3065.0	2775.1	1867.1	731.7	437.7	454.8	460.5	463.7	423.9	374.4	364.7
60°	3061.0	2739.3	1782.6	536.8	386.6	406.9	428.0	428.0	400.4	351.7	344.3
62.5°	3042.3	2668.7	1586.1	382.5	346.0	372.8	400.4	388.2	364.7	325.7	318.4
65°	2957.0	2550.9	1240.9	311.9	328.9	353.3	366.3	349.2	319.2	278.6	275.3
67.5°	2801.9	2281.3	717.9	285.9	314.3	336.2	346.8	320.8	292.4	253.4	251.8
69°	2631.3	2008.4	404.4	279.4	305.4	324.9	333.8	305.4	277.8	240.4	233.1
70°	2478.6	1764.8	263.1	273.7	296.4	317.5	324.0	294.8	268.8	230.6	225.8
72.5°	1877.7	1063.1	177.0	250.1	272.1	288.3	298.1	270.4	241.2	203.0	193.3
75°	1025.7	289.1	155.9	214.4	242.0	263.9	266.4	231.5	189.2	150.2	146.2
77.5°	199.8	99.1	134.0	177.0	192.5	218.5	216.8	193.3	164.1	127.5	122.6
80°	75.5	71.5	112.1	126.7	135.6	163.2	173.0	155.9	136.4	86.9	74.7
82.5°	51.2	52.8	83.7	74.7	82.8	96.6	121.8	118.6	108.0	59.3	52.8
85°	35.7	41.4	46.3	31.7	40.6	60.9	80.4	78.0	66.6	41.4	37.4
87.5°	10.6	11.4	13.0	16.2	25.2	45.5	65.8	54.4	36.5	30.9	26.8
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)