

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: P233510

Luminaire Tested: **VERD-C01H-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
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-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7826 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 73
Input Voltage (V): NR
Input Current (A_{in}): 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

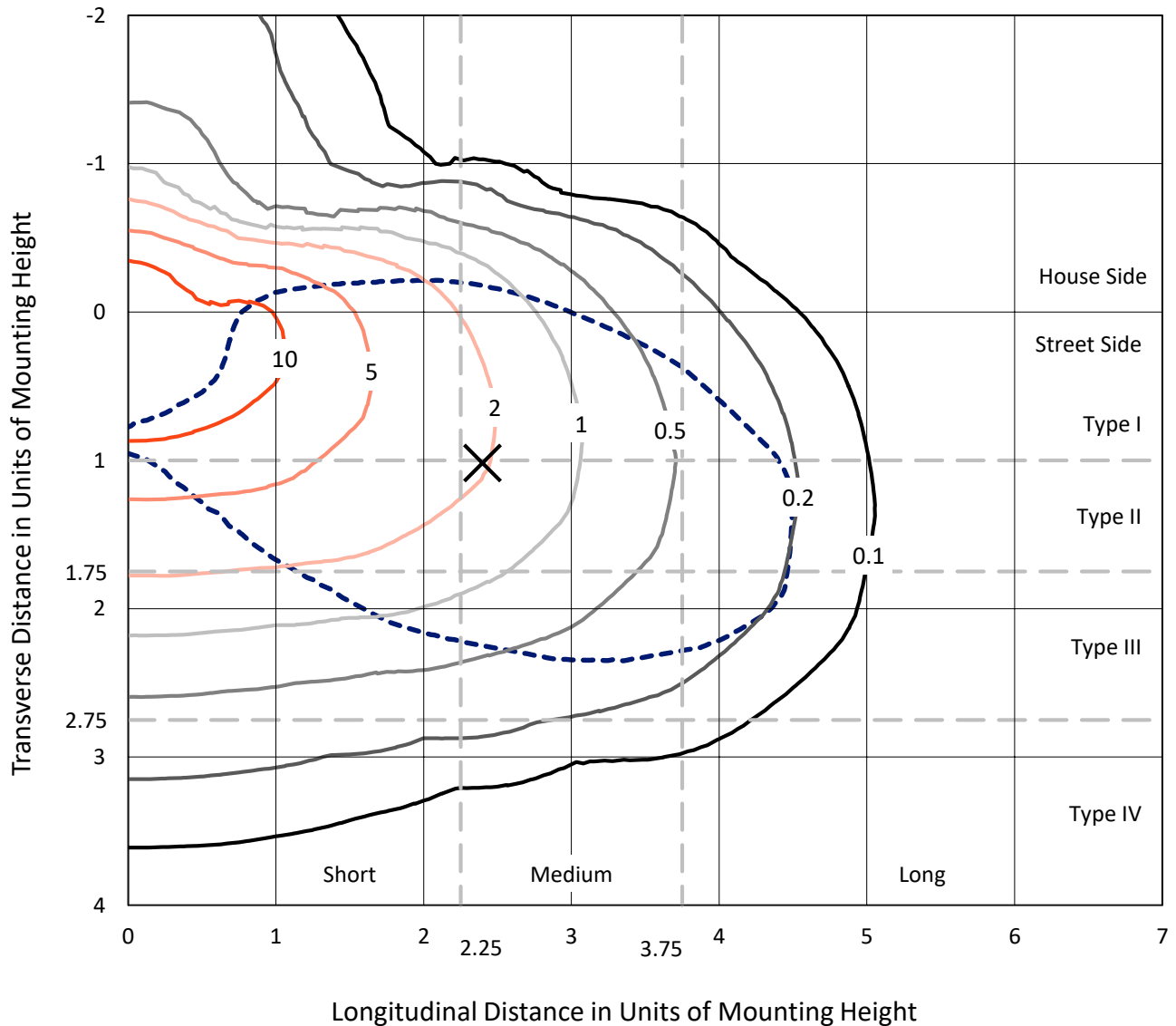


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

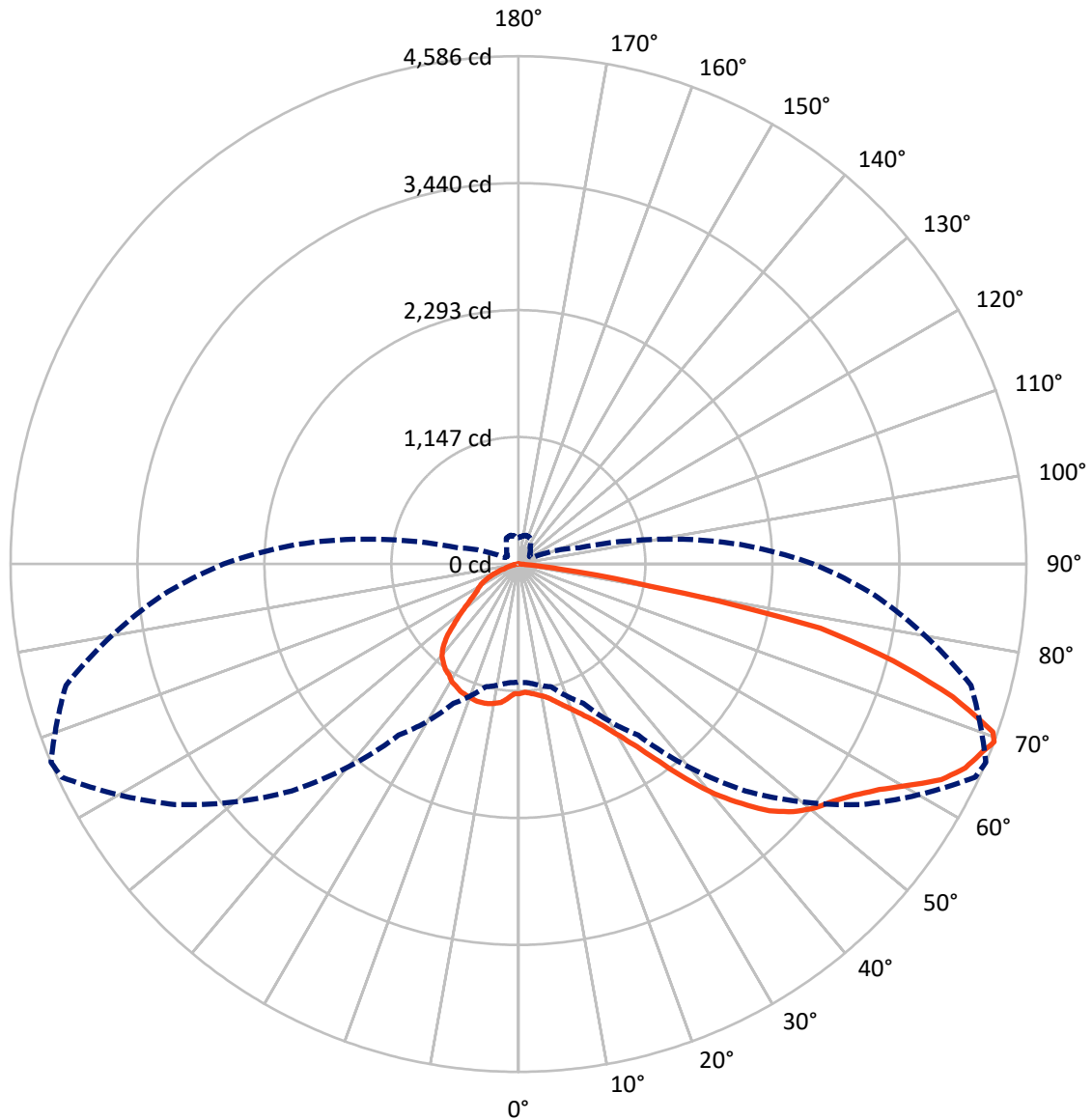


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.3	0.0	1762.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	6063.7	0.0	6063.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	7826.0	0.0	7826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.5
10°-20°	377.9	4.8
20°-30°	651.0	8.3
30°-40°	968.2	12.4
40°-50°	1333.4	17.0
50°-60°	1594.0	20.4
60°-70°	1682.2	21.5
70°-80°	1008.1	12.9
80°-90°	92.7	1.2
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°	7826.0	100.0
0°-180°	7826.0	100.0



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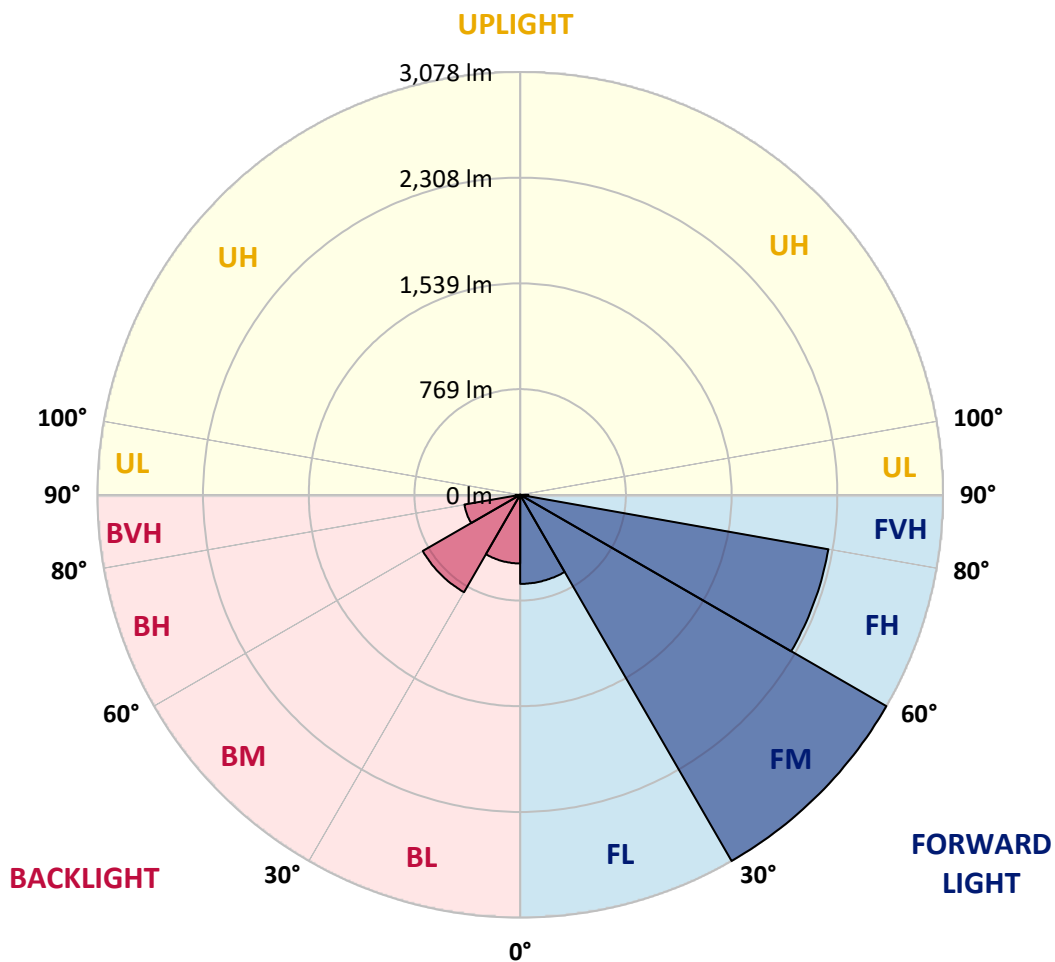
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.0	8.3			
FM	(30°-60°)	3077.5	39.3			
FH	(60°-80°)	2278.2	29.1			G2/5000
FVH	(80°-90°)	60.0	0.8			G1/100
BL	(0°-30°)	499.4	6.4	B1/500		
BM	(30°-60°)	818.2	10.5	B1/1000		
BH	(60°-80°)	412.1	5.3	B1/500		G1/500
BVH	(80°-90°)	32.8	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6
2.5°	1189.8	1189.1	1185.6	1172.7	1171.3	1169.9	1161.4	1162.1	1159.9	1162.1	1162.8
5°	1222.6	1219.7	1216.2	1202.6	1197.6	1191.2	1178.4	1177.7	1172.7	1174.2	1175.6
7.5°	1263.1	1260.3	1257.4	1241.8	1236.8	1225.4	1205.5	1195.5	1191.2	1192.7	1194.8
10°	1317.9	1312.9	1308.7	1285.9	1278.1	1258.8	1234.7	1217.6	1211.9	1214.0	1219.7
12.5°	1380.5	1374.1	1367.0	1343.5	1332.9	1303.0	1274.5	1252.4	1243.9	1248.9	1253.2
15°	1445.3	1441.7	1438.9	1411.1	1396.2	1363.5	1327.9	1300.1	1292.3	1296.6	1298.7
17.5°	1530.7	1528.6	1523.6	1495.1	1466.6	1428.9	1382.7	1353.5	1345.7	1347.8	1342.8
20°	1623.9	1618.2	1615.4	1583.3	1553.5	1501.5	1448.1	1406.9	1404.7	1405.4	1389.8
22.5°	1728.5	1722.1	1716.4	1687.2	1650.2	1589.8	1520.0	1473.8	1475.2	1476.6	1441.7
25°	1835.3	1830.3	1825.3	1797.5	1760.5	1694.4	1610.4	1558.4	1557.7	1558.4	1510.0
27.5°	1947.0	1941.3	1940.6	1917.8	1880.8	1813.2	1716.4	1663.8	1663.8	1660.9	1587.6
30°	2046.6	2052.3	2052.3	2039.5	2004.6	1937.0	1845.9	1793.3	1800.4	1794.7	1701.5
32.5°	2155.5	2154.1	2164.0	2154.1	2125.6	2063.0	1986.8	1953.4	1965.5	1984.0	1890.8
35°	2218.8	2228.8	2253.7	2267.9	2254.4	2203.2	2147.7	2173.3	2189.6	2272.9	2161.2
37.5°	2292.1	2300.7	2334.8	2369.7	2375.4	2347.6	2347.6	2431.6	2463.6	2572.5	2442.3
40°	2342.6	2351.2	2388.2	2428.7	2484.3	2503.5	2553.3	2683.5	2729.0	2802.3	2651.5
42.5°	2312.8	2317.0	2396.7	2495.6	2577.5	2670.0	2749.0	2914.1	2957.5	3008.7	2823.7
45°	2260.1	2267.9	2356.2	2515.6	2656.5	2840.1	2939.7	3131.1	3180.9	3175.9	2956.1
47.5°	2201.7	2213.8	2312.0	2489.9	2724.1	2987.4	3114.0	3313.3	3341.7	3306.2	3047.9
50°	2137.0	2157.6	2262.2	2464.3	2773.2	3116.2	3243.5	3449.9	3464.9	3392.3	3128.3
52.5°	2063.0	2076.5	2192.5	2415.2	2807.3	3201.6	3346.7	3551.7	3558.1	3499.0	3212.9
55°	1960.5	1972.6	2101.4	2349.8	2812.3	3252.1	3412.9	3660.6	3681.9	3624.3	3289.8
57.5°	1850.2	1865.1	1997.5	2255.1	2766.8	3272.7	3492.6	3800.7	3842.0	3759.5	3351.7
60°	1722.1	1741.3	1875.1	2139.8	2677.1	3304.7	3641.3	4005.0	4056.2	3912.5	3410.8
62.5°	1589.0	1599.7	1722.8	1980.4	2537.6	3321.1	3776.5	4238.4	4287.5	4056.9	3438.5
65°	1401.9	1419.0	1528.6	1789.0	2341.2	3250.7	3839.9	4401.3	4436.9	4174.3	3411.5
67.5°	1203.3	1203.3	1296.6	1559.9	2079.3	3064.2	3814.3	4479.6	4522.3	4256.9	3326.1
69°	1066.0	1076.7	1147.8	1387.7	1887.2	2898.4	3786.5	4551.5	4586.4	4230.6	3227.9
70°	960.7	969.9	1041.8	1262.4	1744.2	2767.5	3726.7	4519.5	4545.1	4149.4	3124.7
72.5°	706.6	714.5	764.3	879.6	1311.5	2233.1	3360.3	4086.1	4101.8	3731.7	2756.8
75°	481.8	486.0	523.7	594.2	765.0	1561.3	2745.4	3451.3	3497.6	3236.4	2257.2
77.5°	166.5	179.3	202.1	273.3	327.3	613.4	1860.9	2719.8	2788.8	2506.3	1579.1
80°	56.9	56.2	108.2	140.2	172.2	281.8	588.5	1140.0	1204.8	1033.3	568.6
82.5°	42.7	44.1	71.9	77.6	52.7	103.9	229.1	348.7	382.1	333.7	235.5
85°	27.0	26.3	32.0	33.4	24.2	44.1	55.5	56.2	58.4	50.5	51.2
87.5°	14.9	14.9	14.2	12.1	6.4	5.7	5.0	5.0	4.3	4.3	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°	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6	1170.6
2.5°	1159.2	1169.2	1171.3	1174.2	1181.3	1190.5	1203.3	1203.3	1208.3	1223.3	1228.2
5°	1175.6	1187.7	1203.3	1219.7	1238.9	1259.6	1280.2	1287.3	1297.3	1317.2	1321.5
7.5°	1200.5	1214.0	1241.1	1263.1	1279.5	1300.1	1317.2	1320.0	1332.9	1351.4	1354.9
10°	1226.1	1238.2	1265.3	1276.6	1298.7	1321.5	1330.0	1334.3	1345.0	1359.2	1357.1
12.5°	1261.0	1264.5	1283.8	1291.6	1302.3	1316.5	1320.8	1320.8	1327.2	1349.9	1350.6
15°	1295.1	1295.1	1298.0	1293.7	1295.1	1302.3	1303.0	1293.7	1300.8	1312.2	1308.0
17.5°	1331.4	1321.5	1308.7	1290.2	1273.8	1273.1	1258.1	1236.1	1229.7	1246.0	1245.3
20°	1365.6	1348.5	1317.9	1275.9	1253.2	1222.6	1184.8	1172.0	1171.3	1174.2	1172.0
22.5°	1410.4	1375.6	1320.0	1262.4	1199.8	1151.4	1120.1	1076.7	1075.3	1068.8	1058.9
25°	1463.8	1414.0	1329.3	1247.5	1156.4	1093.8	1018.3	972.1	945.7	951.4	934.4
27.5°	1532.8	1472.3	1332.9	1214.7	1096.6	990.6	899.5	839.7	816.9	807.0	795.6
30°	1627.5	1534.2	1358.5	1187.0	1022.6	882.4	770.7	683.9	651.1	659.7	661.1
32.5°	1779.0	1651.7	1372.0	1132.2	937.2	764.3	619.1	525.2	506.0	530.2	536.6
35°	2043.0	1833.8	1404.0	1099.4	839.7	626.2	460.4	422.0	426.3	446.9	448.3
37.5°	2302.8	2064.4	1502.9	1028.3	723.0	464.0	357.2	336.6	357.2	383.6	387.1
40°	2485.0	2244.4	1590.5	957.8	559.3	335.9	272.5	247.6	277.5	319.5	327.3
42.5°	2646.5	2387.5	1652.4	860.3	382.8	239.8	195.7	202.1	246.2	276.8	283.9
45°	2762.5	2485.7	1695.1	733.7	244.1	181.5	175.1	195.7	237.7	261.9	264.0
47.5°	2835.8	2543.3	1663.8	577.8	183.6	171.5	172.2	198.5	240.5	267.6	266.9
50°	2902.0	2573.9	1562.0	458.3	174.3	164.4	175.8	206.4	249.8	274.7	273.3
52.5°	2972.4	2603.8	1438.2	359.4	167.2	160.8	180.0	211.3	249.8	265.4	263.3
55°	3032.9	2630.1	1345.0	288.9	162.2	160.1	184.3	219.2	248.4	254.8	250.5
57.5°	3064.2	2585.3	1243.9	242.7	157.3	160.1	187.2	217.8	256.9	277.5	273.3
60°	3047.1	2543.3	1162.1	225.6	150.2	159.4	188.6	233.4	315.2	334.5	333.0
62.5°	3015.8	2497.1	1047.5	202.8	142.3	160.8	187.9	247.6	362.9	356.5	338.7
65°	2951.8	2404.6	890.9	176.5	134.5	163.7	187.9	279.0	316.7	309.6	301.7
67.5°	2815.2	2204.6	713.0	151.6	126.0	155.1	185.0	265.4	272.5	254.0	244.8
69°	2662.2	2013.9	564.3	138.1	121.0	150.9	184.3	256.2	268.3	248.4	237.7
70°	2542.6	1865.1	456.1	128.1	116.0	149.4	183.6	249.8	266.1	244.1	232.7
72.5°	2117.8	1507.2	239.1	103.2	98.9	135.9	177.2	244.1	266.9	234.1	217.8
75°	1663.8	1072.4	158.7	79.0	76.1	118.8	162.2	234.8	251.2	210.6	185.7
77.5°	1026.2	469.7	109.6	54.8	55.5	92.5	139.5	209.9	253.3	212.8	180.8
80°	298.2	181.5	69.7	37.0	34.2	54.8	109.6	180.8	240.5	218.5	197.1
82.5°	172.2	118.1	47.0	23.5	20.6	24.9	69.0	140.2	212.1	200.0	204.2
85°	39.1	32.7	17.1	11.4	11.4	14.2	23.5	81.1	146.6	171.5	193.6
87.5°	4.3	4.3	4.3	4.3	4.3	3.6	4.3	22.1	64.0	91.1	106.0
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)