

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: P233536

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233536
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8884 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

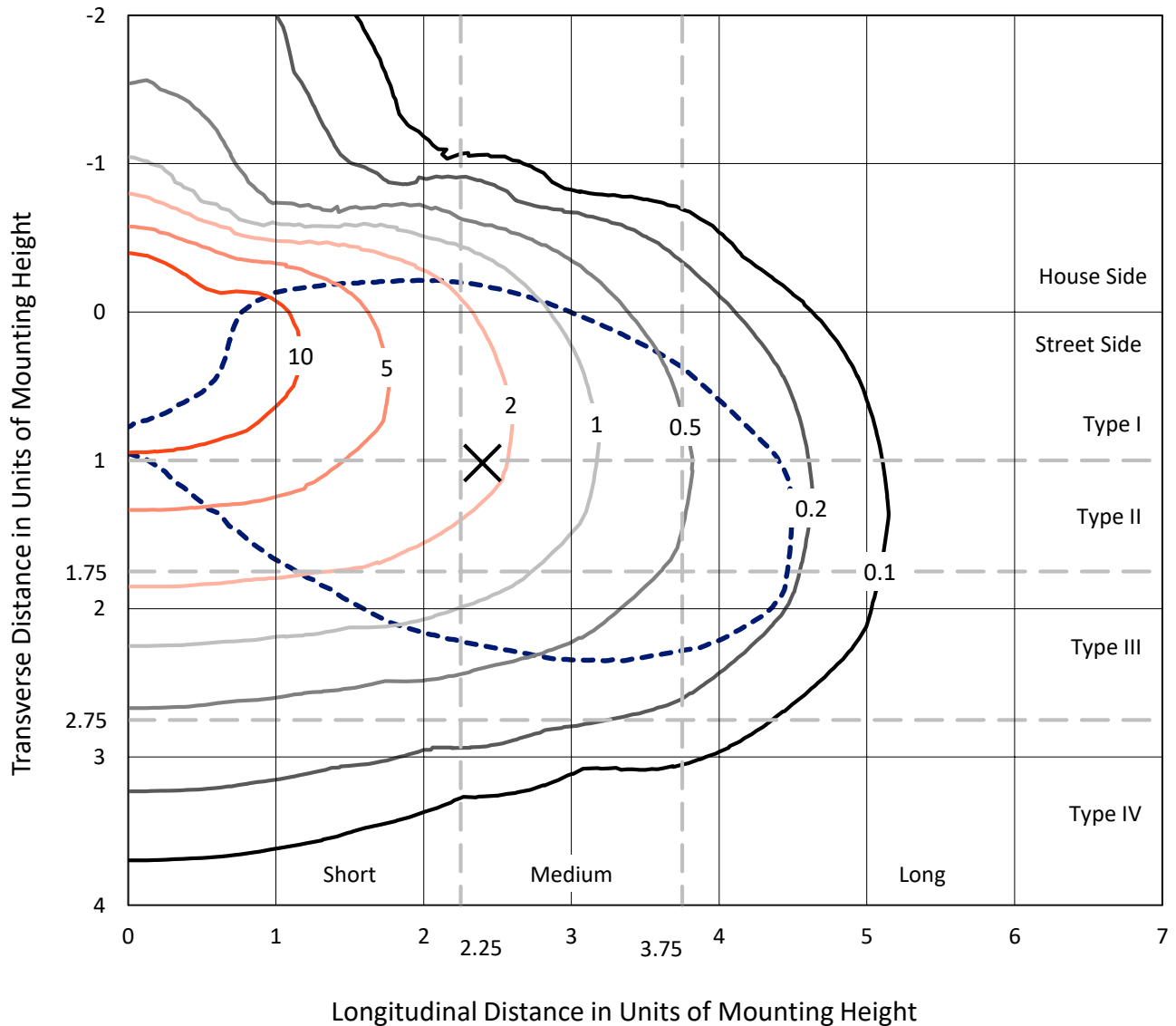
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

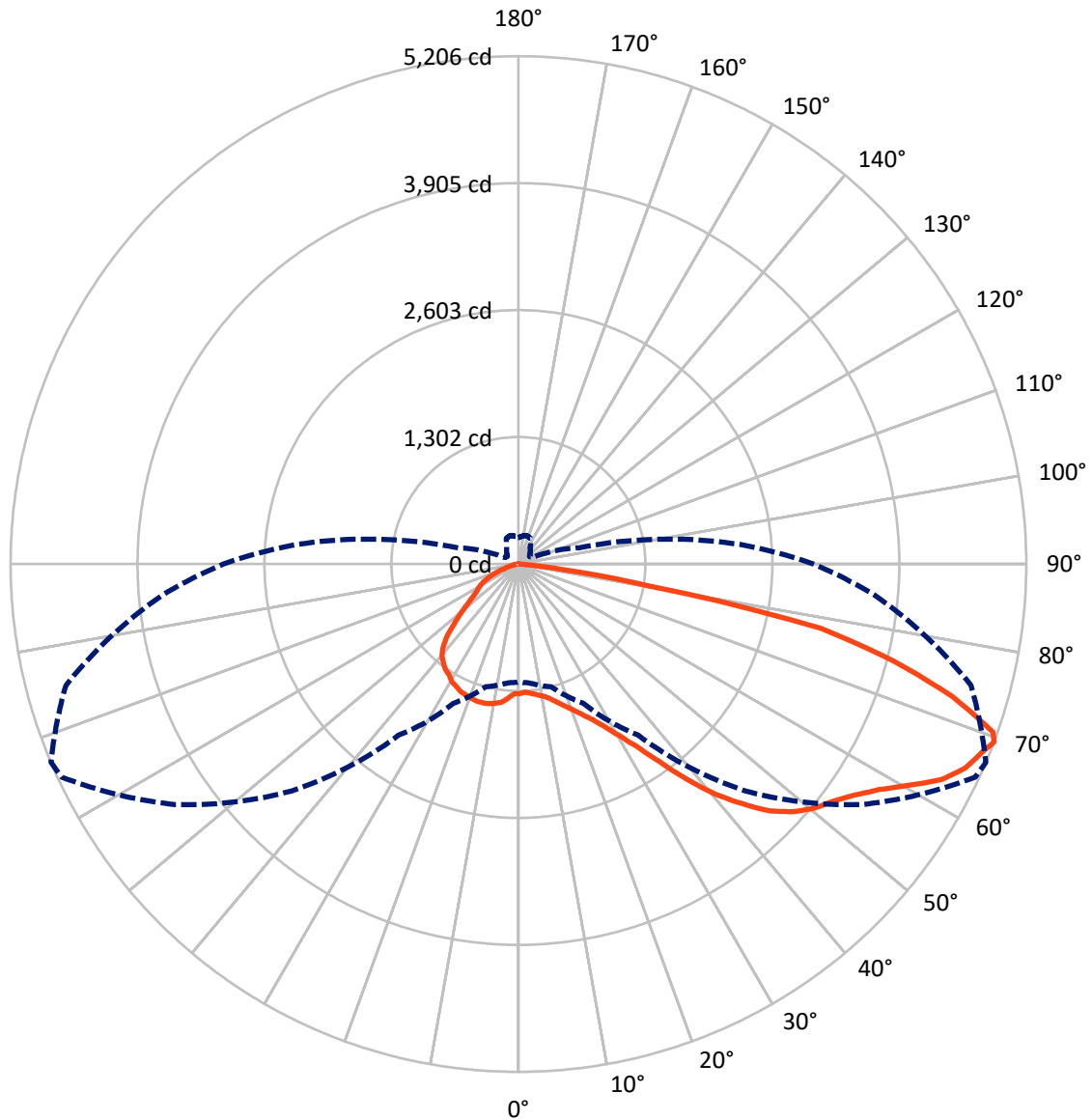
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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	2000.6	0.0	2000.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	6883.4	0.0	6883.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	8884.0	0.0	8884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.5
10°-20°	428.9	4.8
20°-30°	739.0	8.3
30°-40°	1099.1	12.4
40°-50°	1513.7	17.0
50°-60°	1809.5	20.4
60°-70°	1909.6	21.5
70°-80°	1144.3	12.9
80°-90°	105.3	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°	8884.0	100.0
0°-180°	8884.0	100.0

Coefficient of Utilization



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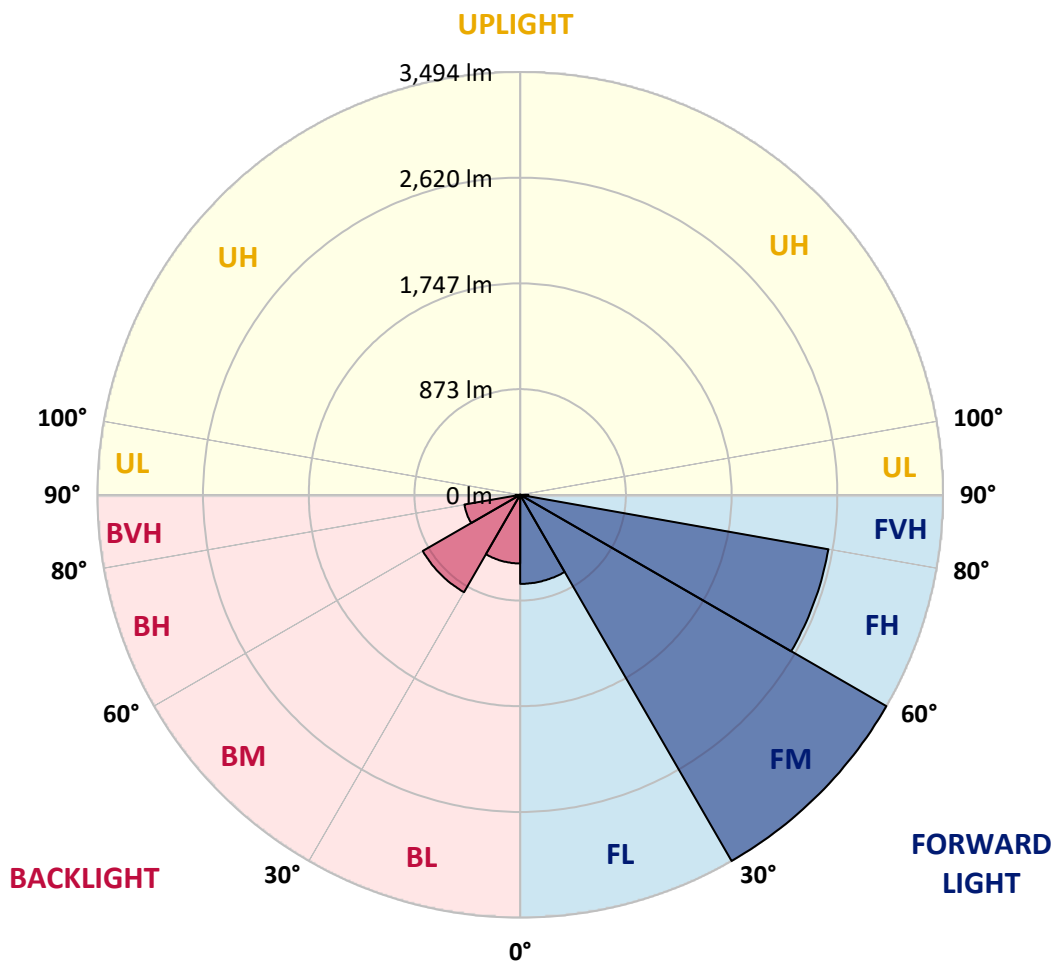
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.6	8.3			
FM	(30°-60°)	3493.6	39.3			
FH	(60°-80°)	2586.1	29.1			G2/5000
FVH	(80°-90°)	68.1	0.8			G1/100
BL	(0°-30°)	566.9	6.4	B2/1000		
BM	(30°-60°)	928.8	10.5	B1/1000		
BH	(60°-80°)	467.8	5.3	B1/500		G1/500
BVH	(80°-90°)	37.2	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9
2.5°	1350.7	1349.9	1345.8	1331.3	1329.7	1328.1	1318.4	1319.2	1316.7	1319.2	1320.0
5°	1387.8	1384.6	1380.6	1365.2	1359.6	1352.3	1337.7	1336.9	1331.3	1332.9	1334.5
7.5°	1433.9	1430.6	1427.4	1409.6	1404.0	1391.1	1368.4	1357.1	1352.3	1353.9	1356.3
10°	1496.1	1490.4	1485.6	1459.7	1450.8	1429.0	1401.6	1382.2	1375.7	1378.1	1384.6
12.5°	1567.2	1559.9	1551.8	1525.2	1513.0	1479.1	1446.8	1421.8	1412.1	1417.7	1422.6
15°	1640.7	1636.6	1633.4	1601.9	1584.9	1547.8	1507.4	1475.9	1467.0	1471.8	1474.3
17.5°	1737.6	1735.2	1729.5	1697.2	1664.9	1622.1	1569.6	1536.5	1527.6	1530.0	1524.4
20°	1843.4	1837.0	1833.8	1797.4	1763.5	1704.5	1643.9	1597.1	1594.6	1595.4	1577.7
22.5°	1962.2	1954.9	1948.5	1915.3	1873.3	1804.7	1725.5	1673.0	1674.6	1676.2	1636.6
25°	2083.4	2077.7	2072.1	2040.6	1998.5	1923.4	1828.1	1769.1	1768.3	1769.1	1714.2
27.5°	2210.2	2203.7	2202.9	2177.1	2135.1	2058.3	1948.5	1888.7	1888.7	1885.5	1802.2
30°	2323.3	2329.8	2329.8	2315.2	2275.6	2198.9	2095.5	2035.7	2043.8	2037.3	1931.5
32.5°	2446.9	2445.3	2456.6	2445.3	2413.0	2341.9	2255.4	2217.5	2231.2	2252.2	2146.4
35°	2518.8	2530.1	2558.4	2574.5	2559.2	2501.0	2438.0	2467.1	2485.7	2580.2	2453.3
37.5°	2602.0	2611.7	2650.5	2690.0	2696.5	2665.0	2665.0	2760.3	2796.7	2920.3	2772.4
40°	2659.3	2669.0	2711.0	2757.1	2820.1	2841.9	2898.5	3046.3	3098.0	3181.2	3009.9
42.5°	2625.4	2630.3	2720.7	2833.0	2925.9	3030.9	3120.6	3308.0	3357.3	3415.5	3205.4
45°	2565.6	2574.5	2674.7	2855.6	3015.6	3224.0	3337.1	3554.4	3611.0	3605.3	3355.7
47.5°	2499.4	2513.1	2624.6	2826.6	3092.3	3391.2	3535.0	3761.2	3793.5	3753.1	3459.9
50°	2425.9	2449.3	2568.1	2797.5	3148.1	3537.4	3682.0	3916.3	3933.3	3850.9	3551.2
52.5°	2341.9	2357.2	2488.9	2741.7	3186.8	3634.4	3799.2	4031.8	4039.1	3972.0	3647.3
55°	2225.5	2239.3	2385.5	2667.4	3192.5	3691.7	3874.3	4155.4	4179.7	4114.2	3734.6
57.5°	2100.3	2117.3	2267.5	2560.0	3140.8	3715.2	3964.8	4314.6	4361.4	4267.7	3804.8
60°	1954.9	1976.7	2128.6	2429.1	3039.0	3751.5	4133.6	4546.4	4604.6	4441.4	3871.9
62.5°	1803.9	1816.0	1955.7	2248.2	2880.7	3770.1	4287.1	4811.4	4867.1	4605.4	3903.4
65°	1591.4	1610.8	1735.2	2030.9	2657.7	3690.1	4359.0	4996.4	5036.8	4738.7	3872.7
67.5°	1366.0	1366.0	1471.8	1770.7	2360.4	3478.5	4329.9	5085.2	5133.7	4832.4	3775.7
69°	1210.1	1222.2	1303.0	1575.2	2142.3	3290.2	4298.4	5166.8	5206.4	4802.5	3664.3
70°	1090.6	1101.1	1182.6	1433.1	1980.0	3141.6	4230.6	5130.5	5159.5	4710.4	3547.1
72.5°	802.2	811.1	867.6	998.5	1488.8	2534.9	3814.5	4638.5	4656.3	4236.2	3129.5
75°	546.9	551.7	594.6	674.5	868.4	1772.4	3116.6	3917.9	3970.4	3674.0	2562.4
77.5°	189.0	203.6	229.4	310.2	371.6	696.3	2112.4	3087.5	3165.8	2845.1	1792.6
80°	64.6	63.8	122.8	159.1	195.5	319.9	668.1	1294.1	1367.6	1173.0	645.4
82.5°	48.5	50.1	81.6	88.1	59.8	117.9	260.1	395.8	433.8	378.9	267.4
85°	30.7	29.9	36.4	38.0	27.5	50.1	63.0	63.8	66.2	57.4	58.2
87.5°	17.0	17.0	16.2	13.7	7.3	6.5	5.7	5.7	4.8	4.8	4.8
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°	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9	1328.9
2.5°	1315.9	1327.2	1329.7	1332.9	1341.0	1351.5	1366.0	1366.0	1371.7	1388.6	1394.3
5°	1334.5	1348.3	1366.0	1384.6	1406.4	1429.8	1453.3	1461.3	1472.7	1495.3	1500.1
7.5°	1362.8	1378.1	1408.8	1433.9	1452.5	1475.9	1495.3	1498.5	1513.0	1534.0	1538.1
10°	1391.9	1405.6	1436.3	1449.2	1474.3	1500.1	1509.8	1514.7	1526.8	1542.9	1540.5
12.5°	1431.5	1435.5	1457.3	1466.2	1478.3	1494.5	1499.3	1499.3	1506.6	1532.4	1533.2
15°	1470.2	1470.2	1473.5	1468.6	1470.2	1478.3	1479.1	1468.6	1476.7	1489.6	1484.8
17.5°	1511.4	1500.1	1485.6	1464.6	1446.0	1445.2	1428.2	1403.2	1395.9	1414.5	1413.7
20°	1550.2	1530.8	1496.1	1448.4	1422.6	1387.8	1345.0	1330.5	1329.7	1332.9	1330.5
22.5°	1601.1	1561.5	1498.5	1433.1	1362.0	1307.1	1271.5	1222.2	1220.6	1213.3	1202.0
25°	1661.7	1605.1	1509.0	1416.1	1312.7	1241.6	1156.0	1103.5	1073.6	1080.1	1060.7
27.5°	1740.0	1671.4	1513.0	1378.9	1244.9	1124.5	1021.1	953.2	927.4	916.1	903.1
30°	1847.5	1741.7	1542.1	1347.4	1160.8	1001.7	874.9	776.3	739.2	748.8	750.5
32.5°	2019.5	1874.9	1557.5	1285.2	1063.9	867.6	702.8	596.2	574.4	601.8	609.1
35°	2319.3	2081.8	1593.8	1248.1	953.2	710.9	522.7	479.0	483.9	507.3	508.9
37.5°	2614.1	2343.5	1706.1	1167.3	820.7	526.7	405.5	382.1	405.5	435.4	439.5
40°	2820.9	2547.9	1805.5	1087.3	634.9	381.3	309.4	281.1	315.0	362.7	371.6
42.5°	3004.3	2710.2	1875.8	976.7	434.6	272.2	222.2	229.4	279.5	314.2	322.3
45°	3136.0	2821.7	1924.2	832.9	277.1	206.0	198.7	222.2	269.8	297.3	299.7
47.5°	3219.2	2887.1	1888.7	655.9	208.4	194.7	195.5	225.4	273.0	303.7	302.9
50°	3294.3	2921.9	1773.2	520.2	197.9	186.6	199.5	234.3	283.5	311.8	310.2
52.5°	3374.3	2955.8	1632.6	407.9	189.8	182.6	204.4	239.9	283.5	301.3	298.9
55°	3442.9	2985.7	1526.8	328.0	184.2	181.8	209.2	248.8	281.9	289.2	284.4
57.5°	3478.5	2934.8	1412.1	275.5	178.5	181.8	212.5	247.2	291.6	315.0	310.2
60°	3459.1	2887.1	1319.2	256.1	170.4	181.0	214.1	265.0	357.9	379.7	378.1
62.5°	3423.5	2834.6	1189.1	230.2	161.6	182.6	213.3	281.1	412.0	404.7	384.5
65°	3350.8	2729.6	1011.4	200.3	152.7	185.8	213.3	316.7	359.5	351.4	342.5
67.5°	3195.7	2502.6	809.4	172.1	143.0	176.1	210.0	301.3	309.4	288.4	277.9
69°	3022.1	2286.1	640.6	156.7	137.3	171.3	209.2	290.8	304.5	281.9	269.8
70°	2886.3	2117.3	517.8	145.4	131.7	169.6	208.4	283.5	302.1	277.1	264.2
72.5°	2404.1	1711.0	271.4	117.1	112.3	154.3	201.1	277.1	302.9	265.8	247.2
75°	1888.7	1217.4	180.1	89.7	86.4	134.9	184.2	266.6	285.2	239.1	210.8
77.5°	1164.9	533.2	124.4	62.2	63.0	105.0	158.3	238.3	287.6	241.5	205.2
80°	338.5	206.0	79.2	42.0	38.8	62.2	124.4	205.2	273.0	248.0	223.8
82.5°	195.5	134.1	53.3	26.7	23.4	28.3	78.4	159.1	240.7	227.0	231.8
85°	44.4	37.2	19.4	12.9	12.9	16.2	26.7	92.1	166.4	194.7	219.7
87.5°	4.8	4.8	4.8	4.8	4.8	4.0	4.8	25.0	72.7	103.4	120.4
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)