

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: P233722

Luminaire Tested: **VERD-C02-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02-D-U-T3-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8949 lumens  
Efficiency: N/A  
Efficacy: 99.4 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): 90  
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

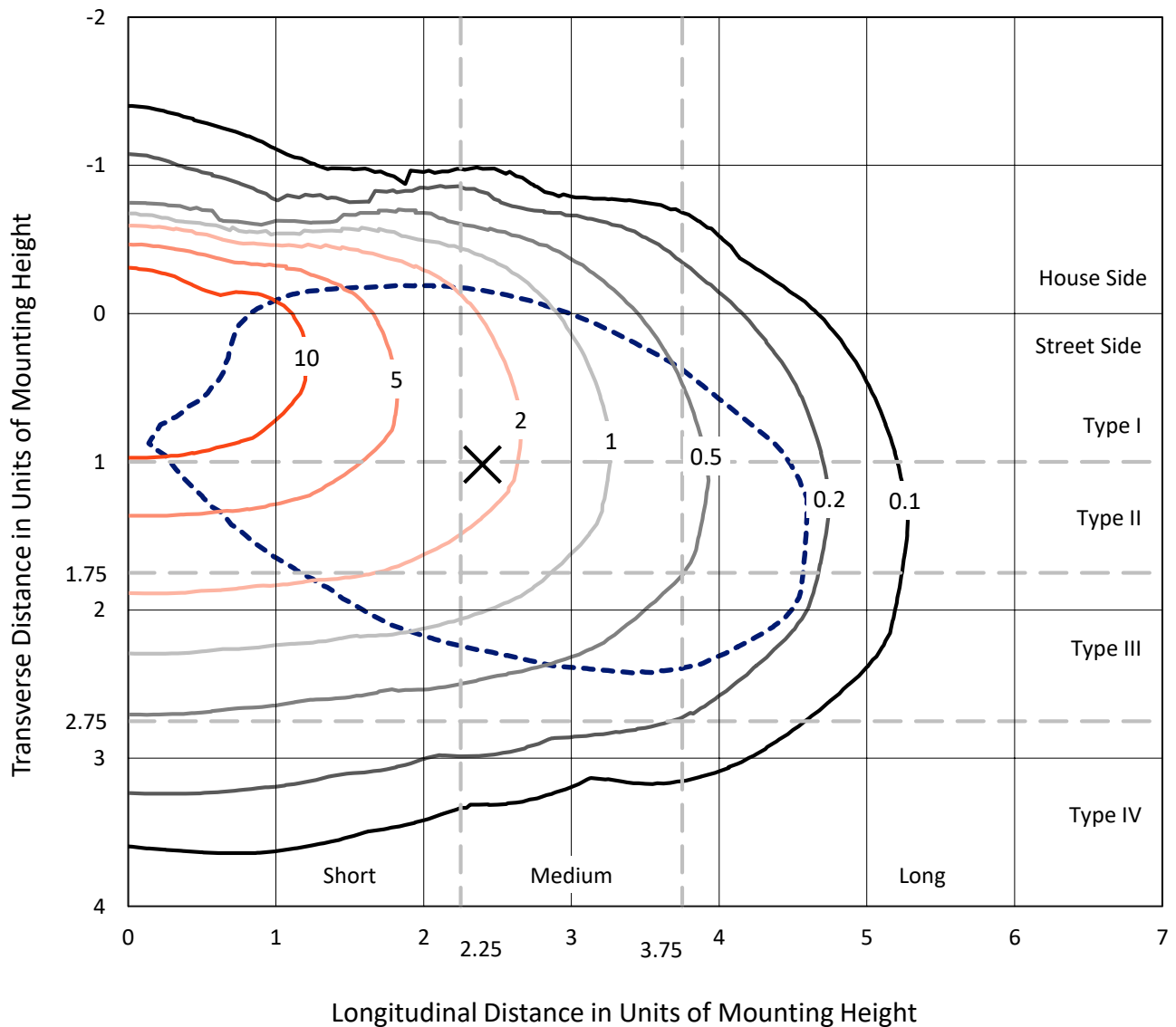


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

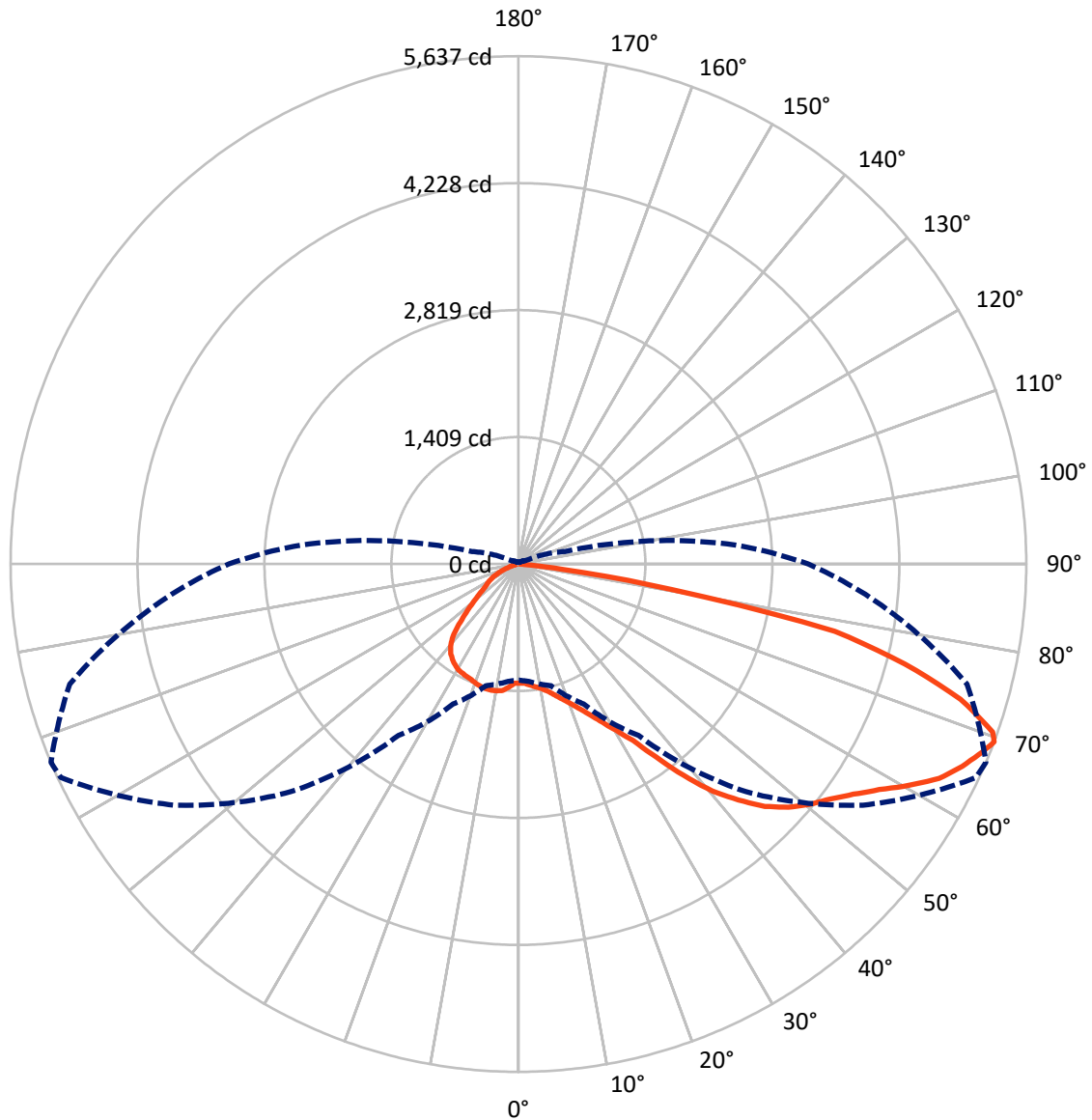


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc  
 Type III - Medium - Semi-Cutoff

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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
<b>House Side</b>	Lumens	1613.2	0.0	1613.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7335.7	0.0	7335.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	8949.0	0.0	8949.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.6	1.5
10°-20°	420.1	4.7
20°-30°	717.1	8.0
30°-40°	1084.2	12.1
40°-50°	1531.7	17.1
50°-60°	1851.1	20.7
60°-70°	1953.2	21.8
70°-80°	1175.8	13.1
80°-90°	82.2	0.9
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°	8949.0	100.0
0°-180°	8949.0	100.0



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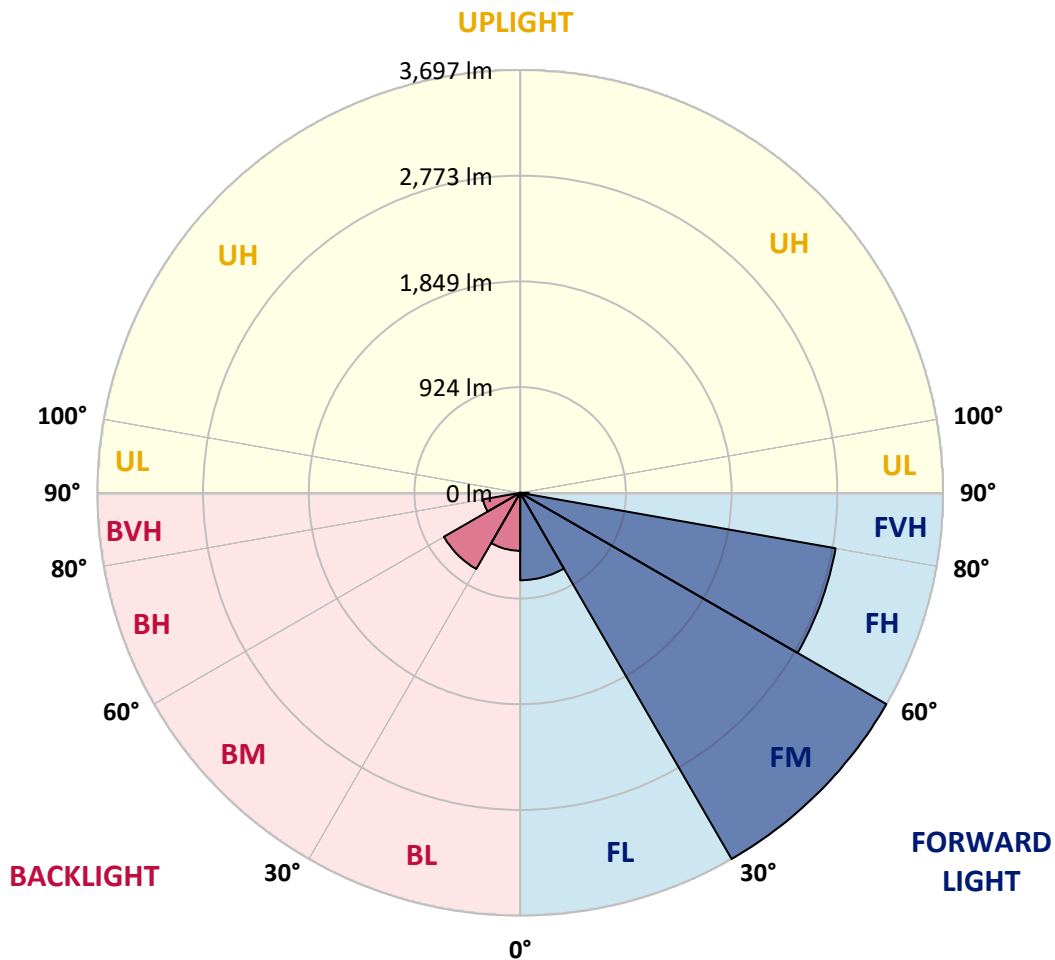
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.1	8.5			
FM	(30°-60°)	3697.2	41.3			
FH	(60°-80°)	2800.2	31.3			G2/5000
FVH	(80°-90°)	74.2	0.8			G1/100
BL	(0°-30°)	506.6	5.7	B2/1000		
BM	(30°-60°)	769.7	8.6	B1/1000		
BH	(60°-80°)	328.9	3.7	B1/500		G1/500
BVH	(80°-90°)	8.0	0.1			G0/10
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°	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4
2.5°	1357.6	1355.5	1355.5	1343.4	1332.0	1329.1	1328.4	1324.8	1325.6	1320.6	1315.6
5°	1396.9	1396.9	1395.4	1379.8	1367.6	1359.8	1354.8	1348.4	1349.1	1345.5	1341.2
7.5°	1456.0	1456.8	1453.9	1433.2	1421.1	1401.9	1390.4	1378.3	1377.6	1373.3	1374.8
10°	1528.8	1530.9	1526.6	1500.3	1479.6	1453.2	1429.0	1407.6	1406.1	1401.1	1405.4
12.5°	1610.8	1613.6	1602.9	1575.8	1552.3	1511.0	1481.7	1453.2	1448.9	1448.2	1451.1
15°	1704.9	1706.3	1702.8	1662.8	1634.3	1596.5	1548.7	1512.4	1508.1	1508.8	1505.3
17.5°	1809.7	1813.3	1805.4	1769.8	1732.0	1679.9	1622.9	1578.0	1575.8	1573.7	1558.0
20°	1921.0	1924.5	1919.5	1886.0	1841.1	1775.5	1705.6	1654.3	1653.6	1648.6	1612.2
22.5°	2046.5	2051.4	2048.6	2008.0	1960.2	1888.9	1801.9	1748.4	1747.0	1731.3	1676.4
25°	2182.6	2181.2	2184.1	2140.6	2095.7	2020.8	1913.1	1857.5	1857.5	1838.2	1757.0
27.5°	2314.6	2313.8	2318.8	2288.2	2241.1	2170.5	2040.8	1984.4	1989.4	1961.6	1853.9
30°	2442.9	2442.9	2455.0	2435.1	2400.1	2326.0	2199.0	2139.9	2146.3	2117.0	1976.6
32.5°	2562.7	2568.4	2589.1	2577.0	2550.6	2483.6	2375.2	2321.0	2336.0	2348.1	2204.8
35°	2651.1	2656.8	2704.6	2708.9	2702.5	2657.5	2577.0	2611.9	2629.7	2725.3	2565.6
37.5°	2728.8	2736.0	2793.0	2828.7	2849.4	2821.5	2826.5	2943.5	2977.0	3089.6	2873.6
40°	2785.9	2801.6	2857.9	2907.1	2979.8	3012.6	3093.9	3260.1	3314.3	3359.2	3085.4
42.5°	2746.7	2757.4	2856.5	2988.4	3094.6	3210.2	3342.1	3539.6	3580.2	3566.0	3272.2
45°	2688.9	2701.7	2805.9	3009.8	3185.9	3416.2	3577.4	3791.3	3837.6	3758.5	3433.3
47.5°	2624.0	2641.9	2754.5	2981.3	3262.2	3605.9	3790.6	4007.3	4034.4	3930.3	3568.8
50°	2558.4	2578.4	2706.0	2957.7	3321.4	3764.2	3946.0	4183.5	4191.3	4072.9	3690.8
52.5°	2470.0	2490.7	2630.4	2908.5	3362.7	3868.3	4082.2	4328.2	4333.2	4227.0	3806.3
55°	2358.1	2384.4	2532.0	2835.8	3372.7	3928.9	4168.5	4478.7	4512.2	4393.8	3901.1
57.5°	2226.1	2250.4	2413.0	2731.0	3322.8	3949.6	4289.0	4677.6	4724.0	4562.8	3979.5
60°	2074.3	2102.1	2265.4	2595.5	3222.3	4007.3	4488.7	4958.6	4986.4	4739.6	4048.7
62.5°	1918.8	1938.8	2087.1	2405.1	3065.4	4042.3	4665.5	5222.4	5240.9	4910.1	4090.1
65°	1697.8	1722.7	1867.5	2186.9	2839.4	3975.3	4733.2	5402.8	5414.2	5052.7	4070.1
67.5°	1457.5	1477.4	1583.0	1923.8	2542.7	3762.8	4705.4	5523.3	5559.7	5163.9	3979.5
69°	1287.1	1307.0	1398.3	1713.5	2322.4	3574.5	4666.2	5605.3	5637.4	5156.1	3864.0
70°	1154.4	1174.4	1260.7	1556.6	2149.8	3415.5	4604.2	5563.9	5584.6	5068.4	3751.4
72.5°	825.7	845.7	916.3	1094.5	1628.6	2807.3	4219.8	5104.7	5132.5	4647.0	3352.8
75°	432.1	479.9	606.8	707.3	964.8	1976.6	3508.2	4390.3	4430.9	4077.9	2757.4
77.5°	55.6	58.5	171.1	287.4	398.6	833.6	2492.1	3525.3	3589.5	3263.6	1906.7
80°	44.9	45.6	59.2	143.3	198.2	338.0	884.2	1650.0	1727.7	1450.3	700.9
82.5°	31.4	32.8	46.3	75.6	64.9	123.4	307.3	466.3	480.6	415.7	279.5
85°	17.8	17.8	22.1	29.2	20.7	46.3	63.5	67.7	60.6	59.9	44.9
87.5°	5.0	5.7	6.4	5.0	2.1	2.1	2.9	2.9	2.9	2.1	2.1
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°	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4	1323.4
2.5°	1323.4	1322.0	1322.7	1325.6	1329.8	1345.5	1356.2	1357.6	1362.6	1381.2	1379.0
5°	1346.2	1354.8	1359.8	1374.8	1384.7	1406.1	1419.0	1420.4	1427.5	1446.8	1447.5
7.5°	1378.3	1392.6	1399.7	1416.8	1420.4	1430.4	1433.9	1430.4	1431.1	1448.2	1449.6
10°	1406.1	1424.0	1424.0	1428.2	1421.8	1422.5	1411.1	1400.4	1394.7	1409.7	1413.3
12.5°	1448.9	1453.9	1442.5	1429.7	1410.4	1393.3	1374.0	1356.9	1343.4	1351.9	1347.0
15°	1493.1	1485.3	1457.5	1424.0	1389.7	1360.5	1320.6	1295.6	1272.1	1277.1	1272.8
17.5°	1537.3	1511.7	1468.2	1412.6	1362.6	1307.0	1251.4	1212.2	1169.4	1165.8	1159.4
20°	1580.1	1543.0	1471.0	1389.0	1319.1	1240.7	1154.4	1087.4	1023.9	1007.5	996.8
22.5°	1631.5	1578.0	1474.6	1366.2	1272.1	1165.1	1034.6	930.5	862.1	839.3	828.6
25°	1697.1	1626.5	1484.6	1349.1	1224.3	1071.7	892.7	773.7	699.5	660.3	656.7
27.5°	1774.8	1684.9	1501.7	1327.0	1156.6	946.9	745.9	621.8	542.6	502.7	489.9
30°	1876.7	1757.7	1517.4	1309.9	1061.0	810.7	591.8	453.5	359.4	333.7	320.2
32.5°	2070.0	1876.0	1537.3	1269.9	948.4	661.7	419.3	279.5	215.3	198.2	198.2
35°	2384.4	2136.3	1587.3	1215.0	812.9	482.0	251.7	156.9	128.3	118.4	113.4
37.5°	2668.2	2398.7	1712.0	1130.2	648.2	285.2	144.0	97.0	87.7	89.1	89.1
40°	2868.6	2578.4	1849.7	1015.4	440.0	152.6	91.3	77.7	79.1	79.9	79.9
42.5°	3040.4	2731.7	1925.2	879.2	239.6	99.1	78.4	70.6	72.7	72.0	71.3
45°	3184.5	2856.5	1950.2	691.7	116.2	87.7	71.3	64.9	64.9	64.2	64.2
47.5°	3307.8	2967.0	1903.8	514.1	94.1	80.6	67.7	59.9	59.2	62.7	62.7
50°	3420.5	3052.6	1788.3	389.3	91.3	74.2	64.2	55.6	56.3	61.3	61.3
52.5°	3514.6	3103.2	1617.2	291.6	84.9	68.5	59.2	52.1	52.1	57.0	57.0
55°	3584.5	3103.2	1486.7	218.2	81.3	62.7	54.9	49.9	47.1	48.5	49.2
57.5°	3619.4	3044.7	1381.9	176.8	77.0	57.0	50.6	43.5	38.5	39.9	39.2
60°	3610.2	3011.2	1261.4	157.6	72.0	52.8	44.9	37.1	32.1	30.7	30.7
62.5°	3593.1	2973.4	1110.9	136.9	67.0	49.2	37.1	29.9	27.1	25.7	26.4
65°	3528.2	2850.8	920.5	114.1	62.0	47.8	31.4	26.4	23.5	22.1	22.1
67.5°	3371.3	2629.7	695.9	96.3	57.8	38.5	27.1	22.8	20.0	18.5	18.5
69°	3215.9	2418.7	534.1	87.7	54.9	34.9	25.0	20.7	18.5	16.4	16.4
70°	3081.8	2255.4	418.6	82.0	52.8	33.5	24.2	20.0	17.8	15.7	15.7
72.5°	2624.0	1789.0	212.5	71.3	44.2	29.2	21.4	17.8	15.0	12.8	12.8
75°	2035.8	1232.9	140.5	56.3	34.2	26.4	19.3	15.7	12.8	10.7	10.0
77.5°	1225.0	482.0	100.5	36.4	22.1	20.7	15.7	12.8	10.7	8.6	8.6
80°	338.0	206.8	67.7	24.2	12.8	13.5	11.4	9.3	7.8	6.4	6.4
82.5°	203.2	134.1	44.9	15.7	8.6	8.6	6.4	6.4	5.0	5.0	5.0
85°	34.9	27.1	10.7	6.4	5.0	5.0	3.6	2.1	2.1	2.1	2.1
87.5°	2.1	2.1	2.1	2.9	2.9	2.1	1.4	0.7	0.0	0.0	0.0
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)