

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: P233682

Luminaire Tested: **VERD-C029-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
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-T2-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8952 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

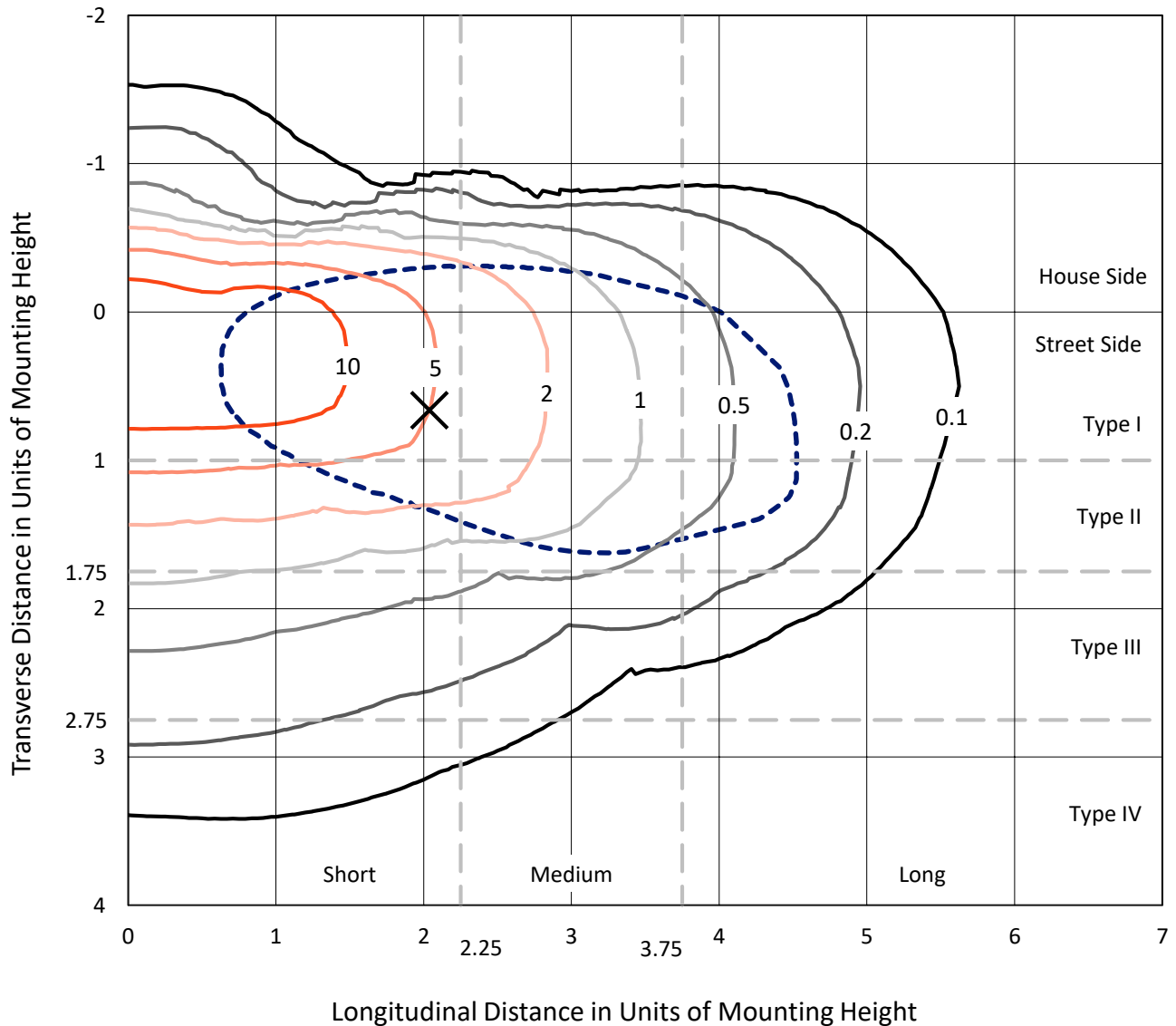
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

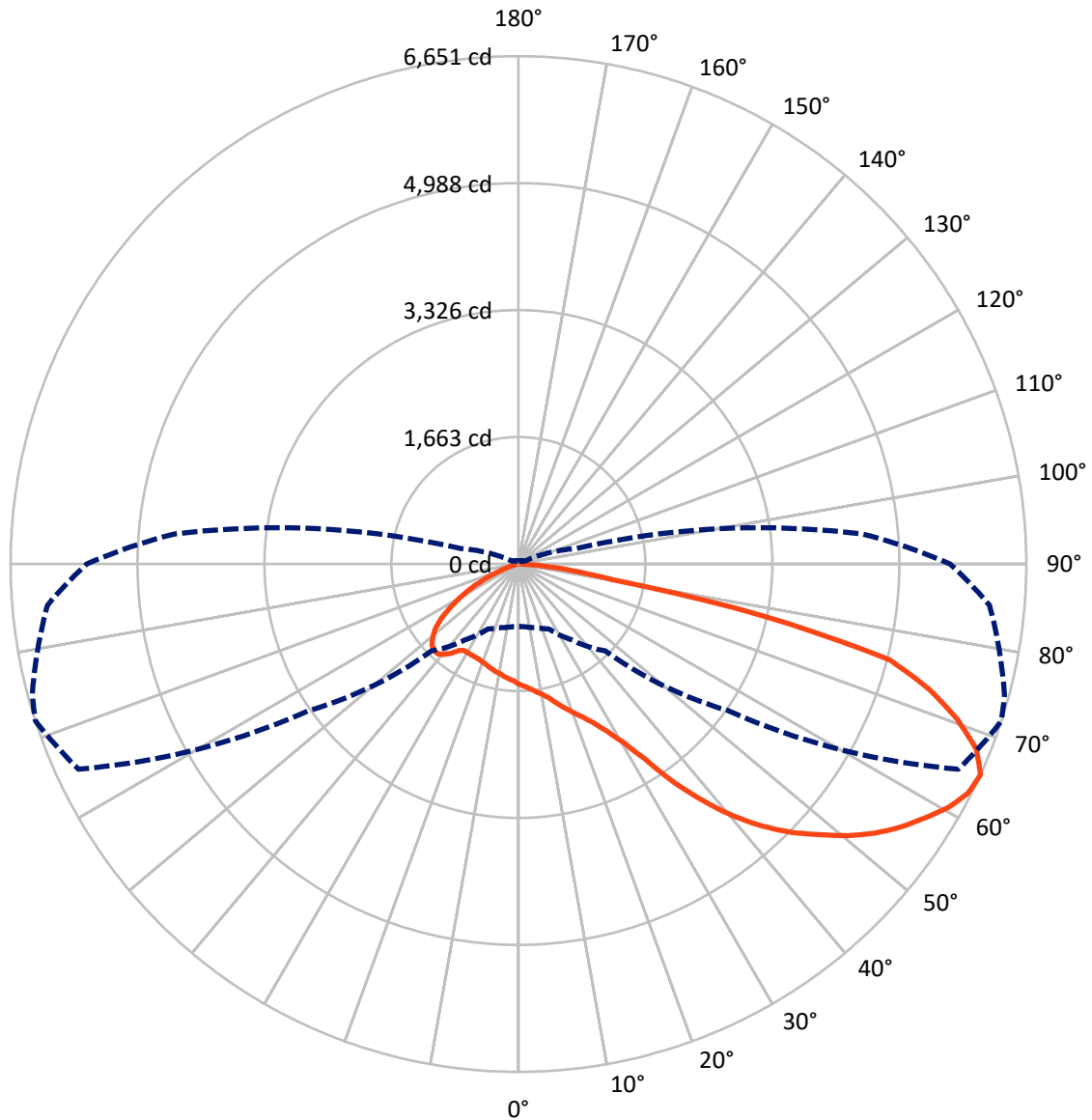
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.3	0.0	1860.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7091.7	0.0	7091.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	8952.0	0.0	8952.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.7
10°-20°	459.0	5.1
20°-30°	767.0	8.6
30°-40°	1134.6	12.7
40°-50°	1568.6	17.5
50°-60°	1835.5	20.5
60°-70°	1824.4	20.4
70°-80°	1092.7	12.2
80°-90°	118.9	1.3
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°	8952.0	100.0
0°-180°	8952.0	100.0



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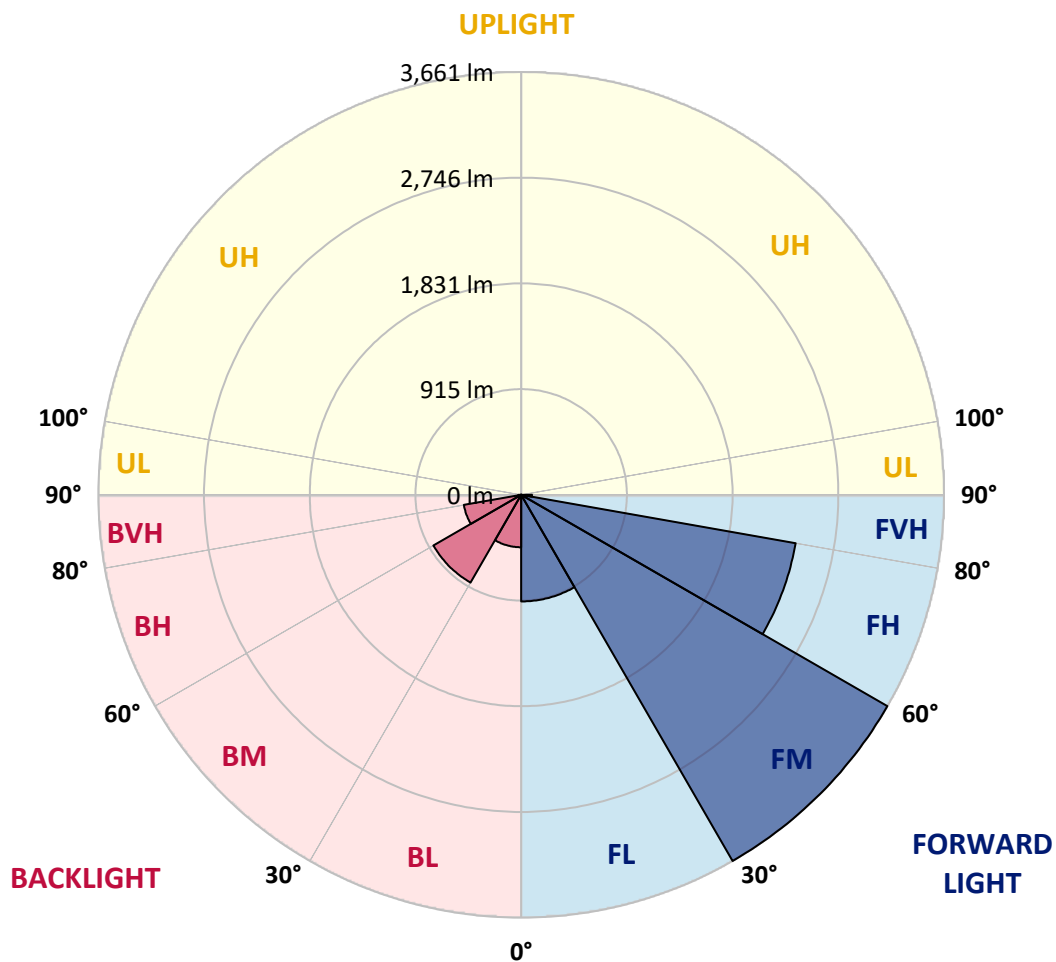
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.1	10.3			
FM (30°-60°)	3661.1	40.9			
FH (60°-80°)	2413.5	27.0			G2/5000
FVH (80°-90°)	94.0	1.1			G1/100
BL (0°-30°)	454.1	5.1	B1/500		
BM (30°-60°)	877.6	9.8	B1/1000		
BH (60°-80°)	503.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1710.6	1712.1	1712.8	1685.8	1671.2	1654.4	1638.3	1620.8	1602.5	1596.0	1571.9
5°	1815.8	1817.3	1812.9	1788.1	1761.0	1736.2	1705.5	1674.1	1643.4	1634.7	1593.8
7.5°	1917.4	1916.6	1913.0	1881.6	1848.0	1815.1	1772.0	1729.6	1689.5	1675.6	1615.0
10°	2001.3	2002.8	2005.0	1971.4	1938.5	1899.1	1846.5	1783.7	1737.7	1715.8	1636.9
12.5°	2093.4	2089.0	2094.8	2062.0	2016.7	1980.9	1933.4	1859.6	1804.9	1777.1	1679.2
15°	2198.6	2198.6	2190.5	2163.5	2117.5	2073.7	2026.2	1958.3	1892.5	1850.2	1736.2
17.5°	2270.9	2266.5	2264.3	2240.9	2201.5	2163.5	2127.0	2057.6	1986.0	1934.1	1789.5
20°	2301.6	2303.0	2313.2	2296.4	2275.3	2252.6	2212.4	2158.4	2079.5	2024.0	1846.5
22.5°	2360.7	2362.2	2374.6	2362.9	2357.1	2351.2	2314.0	2266.5	2182.5	2129.2	1918.1
25°	2364.4	2365.8	2399.4	2418.4	2448.4	2462.2	2436.7	2395.8	2310.3	2258.5	2024.7
27.5°	2375.3	2379.7	2414.0	2466.6	2545.5	2573.3	2558.7	2557.2	2484.9	2430.1	2163.5
30°	2365.8	2370.2	2419.9	2492.9	2602.5	2684.3	2701.1	2744.2	2715.0	2674.1	2356.3
32.5°	2298.6	2314.7	2373.9	2490.0	2651.4	2799.7	2853.7	3001.3	3045.1	3049.5	2743.5
35°	2176.6	2185.4	2292.8	2456.4	2684.3	2908.5	3057.5	3330.0	3515.5	3507.5	3172.2
37.5°	2083.9	2086.8	2197.1	2399.4	2702.6	3025.4	3289.8	3725.9	3939.2	3948.6	3559.3
40°	1964.8	1986.0	2091.9	2330.8	2692.3	3124.0	3520.6	4094.7	4343.1	4332.8	3899.0
42.5°	1853.8	1866.2	1971.4	2223.4	2655.1	3199.2	3747.1	4451.9	4695.9	4662.3	4224.7
45°	1738.4	1759.6	1856.0	2084.6	2581.3	3241.6	3952.3	4790.8	5014.3	4972.7	4511.8
47.5°	1623.0	1638.3	1740.6	1957.5	2442.5	3240.1	4153.9	5108.6	5297.0	5267.8	4783.5
50°	1235.1	1268.7	1537.5	1824.6	2247.5	3178.8	4316.8	5410.2	5593.6	5548.3	5048.7
52.5°	1132.1	1143.1	1218.3	1670.5	2039.3	3032.7	4443.9	5693.6	5855.0	5803.2	5298.5
55°	1070.1	1083.2	1113.9	1357.8	1868.4	2792.4	4496.5	5958.0	6078.5	6026.0	5521.2
57.5°	987.5	1000.7	1061.3	1169.4	1690.2	2426.5	4419.0	6192.5	6276.5	6218.8	5727.9
60°	930.6	936.4	994.8	1079.6	1495.2	2056.9	4160.5	6383.1	6470.8	6402.1	5932.5
62.5°	878.0	884.5	926.2	1010.2	1333.7	1785.9	3758.0	6429.9	6608.8	6555.5	6119.5
65°	817.3	823.2	861.2	935.7	1208.8	1609.1	3343.1	6358.3	6651.2	6590.6	6191.8
67.5°	737.0	745.0	775.0	842.2	1045.2	1409.0	2725.9	6226.1	6465.7	6402.9	6043.5
70°	637.7	641.3	677.1	737.7	883.1	1222.7	2137.9	5755.7	6098.3	6028.9	5625.7
72.5°	514.9	521.5	560.2	623.8	725.3	1007.2	1527.3	4973.4	5633.0	5606.7	5017.2
75°	344.0	369.6	461.6	525.9	599.7	786.7	1025.5	3490.7	5028.9	5049.4	4286.1
77.5°	65.7	67.9	193.6	287.8	350.6	480.6	634.7	1715.0	3314.6	3673.3	3232.1
80°	43.1	46.7	82.5	201.6	232.3	238.1	325.8	751.6	1249.0	1579.9	1864.0
82.5°	22.6	27.0	49.7	116.9	106.6	59.2	106.6	387.9	692.4	795.4	940.0
85°	9.5	11.0	24.1	40.2	29.9	24.8	24.8	154.8	306.8	355.0	368.9
87.5°	1.5	1.5	5.1	7.3	4.4	2.9	2.2	0.7	0.7	0.7	0.7
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°	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7	1577.7
2.5°	1571.9	1558.7	1540.5	1519.3	1503.9	1495.9	1489.3	1471.8	1466.0	1477.6	1474.7
5°	1578.4	1563.1	1521.5	1487.1	1452.8	1431.6	1408.2	1377.6	1364.4	1371.7	1369.5
7.5°	1582.8	1563.8	1501.7	1448.4	1390.7	1350.5	1319.9	1279.7	1260.0	1267.3	1258.5
10°	1589.4	1560.9	1478.4	1407.5	1332.3	1273.9	1228.6	1181.8	1161.4	1167.2	1159.9
12.5°	1617.1	1571.1	1467.4	1372.5	1280.4	1207.4	1150.4	1100.7	1071.5	1077.4	1071.5
15°	1662.4	1591.6	1451.3	1327.9	1225.6	1142.4	1076.6	1019.7	986.1	994.1	986.8
17.5°	1709.9	1616.4	1436.7	1278.2	1167.2	1074.4	1005.8	957.6	903.5	908.6	897.7
20°	1750.8	1639.8	1428.7	1231.5	1112.4	1002.1	919.6	886.7	812.2	793.2	780.8
22.5°	1807.8	1674.1	1422.1	1193.5	1044.5	929.8	831.9	770.6	690.2	650.1	646.4
25°	1888.9	1725.3	1421.4	1163.6	983.1	853.9	717.3	614.3	543.4	496.0	489.4
27.5°	1991.9	1793.2	1429.4	1133.6	921.8	758.2	576.3	462.4	398.8	362.3	355.7
30°	2140.1	1882.3	1439.7	1099.3	853.1	634.0	429.5	340.4	287.8	261.5	256.4
32.5°	2457.9	2110.9	1455.0	1063.5	770.6	477.7	311.9	246.9	206.7	190.6	198.7
35°	2840.6	2421.3	1523.7	1017.5	662.5	340.4	225.0	176.0	148.3	151.9	156.3
37.5°	3175.1	2717.9	1677.8	958.3	517.9	249.8	154.8	131.5	131.5	143.2	153.4
40°	3490.7	2985.2	1815.8	878.0	363.0	172.4	119.8	122.0	119.8	127.1	124.9
42.5°	3788.7	3238.7	1923.9	782.3	237.4	119.1	108.8	113.2	109.6	111.0	104.4
45°	4070.6	3500.9	1983.8	641.3	157.8	103.7	100.1	107.4	106.6	105.2	98.6
47.5°	4331.4	3731.7	2013.8	462.4	108.8	93.5	94.2	99.3	101.5	100.1	96.4
50°	4587.0	3961.8	1986.7	276.8	97.9	85.5	90.6	90.6	95.0	86.9	84.0
52.5°	4831.7	4192.6	1901.3	168.0	89.8	79.6	84.0	82.5	84.7	76.7	75.2
55°	5061.8	4364.3	1732.6	132.2	84.7	76.0	76.7	78.2	74.5	65.7	68.7
57.5°	5305.0	4510.3	1497.4	119.8	82.5	70.9	72.3	71.6	65.7	57.7	57.7
60°	5505.2	4616.2	1261.4	108.8	81.1	69.4	64.3	62.8	54.1	49.7	48.9
62.5°	5643.2	4646.2	1031.4	97.1	76.7	64.3	57.7	53.3	45.3	40.9	39.4
65°	5654.2	4518.4	785.2	87.7	72.3	59.9	53.3	43.8	35.8	32.1	30.7
67.5°	5429.9	4163.4	553.7	80.3	65.0	55.5	46.7	35.1	28.5	25.6	24.8
70°	4961.0	3722.2	338.9	70.1	59.2	51.9	48.2	28.5	23.4	19.7	19.7
72.5°	4353.3	3224.1	198.7	59.9	49.7	41.6	32.1	24.1	19.7	15.3	15.3
75°	3731.0	2559.4	122.0	45.3	36.5	32.9	24.8	20.5	16.1	11.7	11.7
77.5°	2686.5	1889.6	95.0	29.2	22.6	23.4	18.3	16.1	13.1	9.5	9.5
80°	1648.6	1150.4	67.9	19.7	13.1	13.1	13.1	12.4	9.5	8.0	7.3
82.5°	835.6	525.9	33.6	11.7	8.0	8.0	8.0	8.8	7.3	5.8	5.8
85°	293.6	147.5	10.2	5.8	5.1	5.1	4.4	4.4	3.7	2.9	2.9
87.5°	0.7	1.5	1.5	2.2	2.9	2.9	2.2	1.5	0.7	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)