

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: P233671

Luminaire Tested: **VERD-C02H6-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233671
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-C02H6-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9281 lumens
Efficiency: N/A
Efficacy: 94.7 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

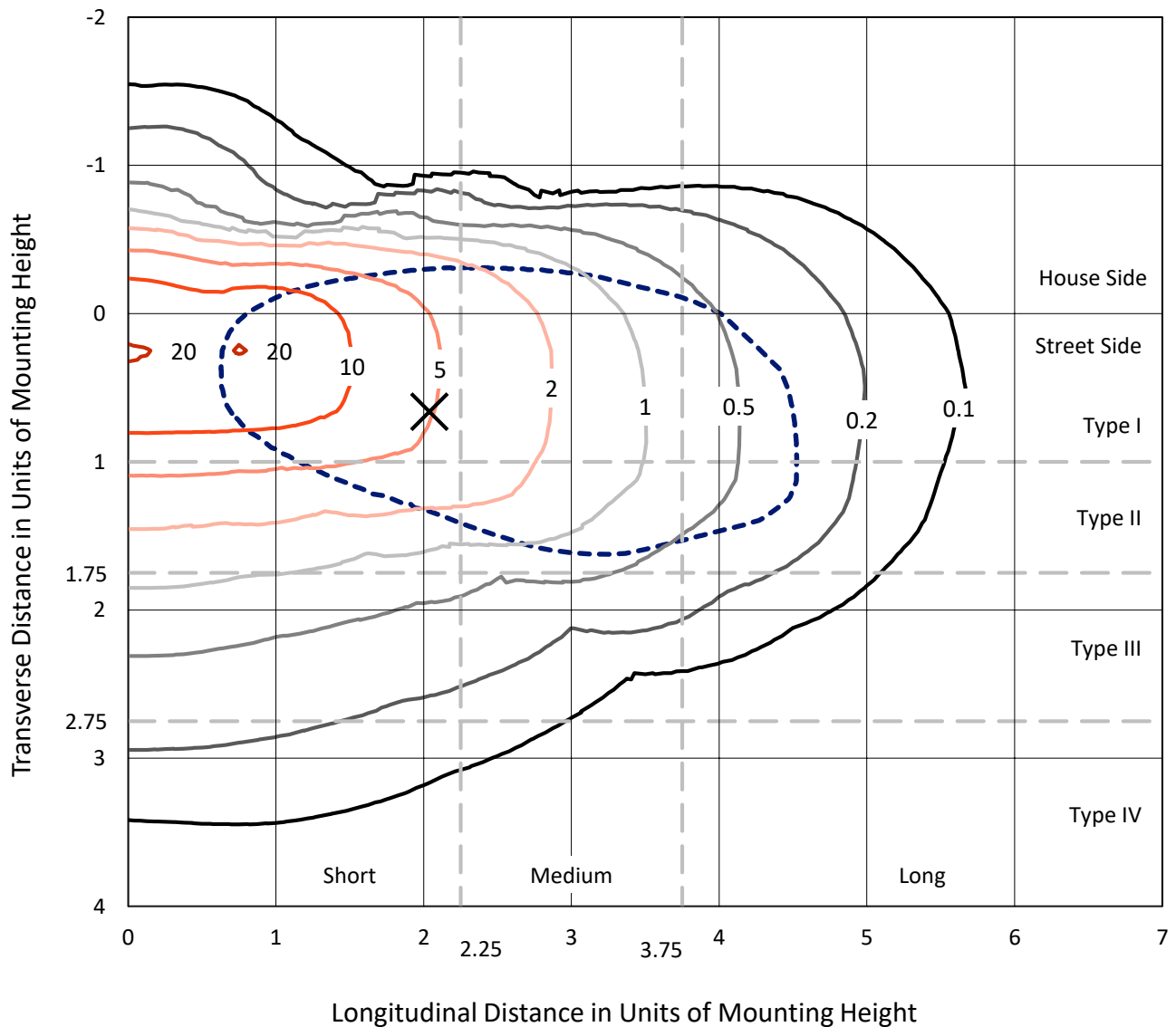
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

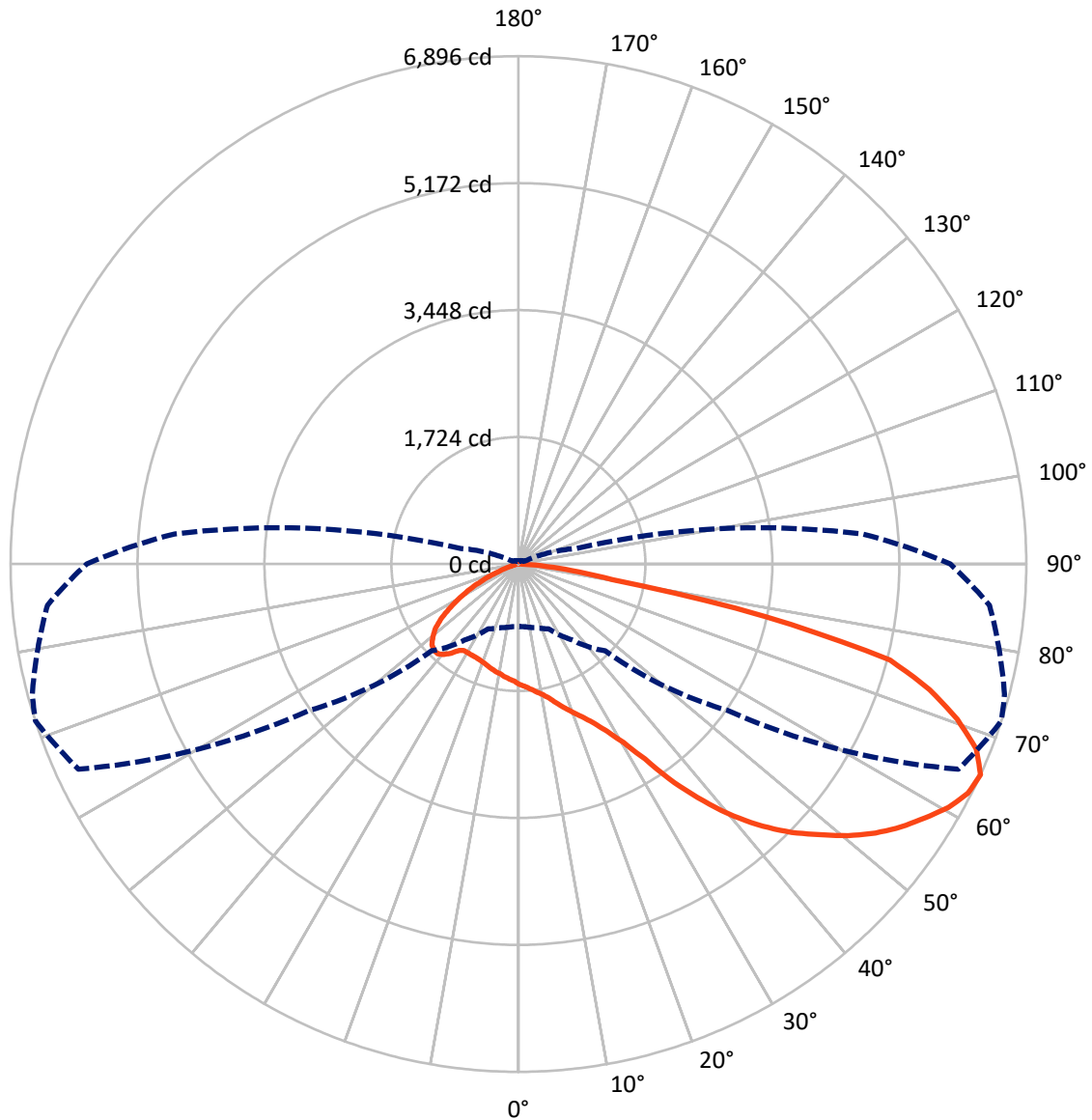


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - Non-Cutoff

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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	1928.6	0.0	1928.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7352.4	0.0	7352.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	9281.0	0.0	9281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	1.7
10°-20°	475.9	5.1
20°-30°	795.2	8.6
30°-40°	1176.3	12.7
40°-50°	1626.2	17.5
50°-60°	1902.9	20.5
60°-70°	1891.5	20.4
70°-80°	1132.9	12.2
80°-90°	123.3	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°	9281.0	100.0
0°-180°	9281.0	100.0



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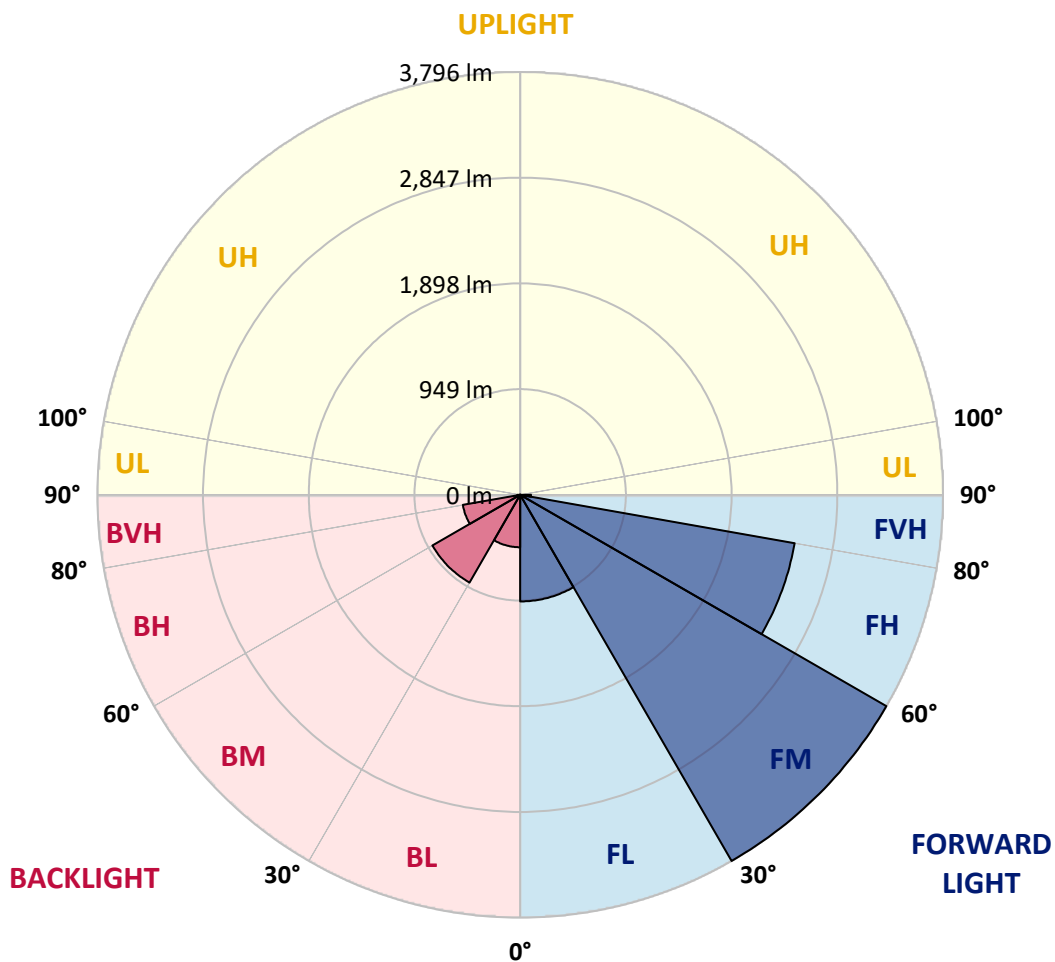
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.1	10.3			
FM	(30°-60°)	3795.7	40.9			
FH	(60°-80°)	2502.2	27.0			G2/5000
FVH	(80°-90°)	97.5	1.1			G1/100
BL	(0°-30°)	470.8	5.1	B1/500		
BM	(30°-60°)	909.8	9.8	B1/1000		
BH	(60°-80°)	522.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	25.8	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°	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7
2.5°	1773.5	1775.0	1775.8	1747.8	1732.6	1715.2	1698.5	1680.4	1661.4	1654.6	1629.6
5°	1882.6	1884.1	1879.5	1853.8	1825.8	1800.0	1768.2	1735.6	1703.8	1694.8	1652.3
7.5°	1987.8	1987.1	1983.3	1950.7	1915.9	1881.8	1837.1	1793.2	1751.5	1737.2	1674.3
10°	2074.9	2076.4	2078.7	2043.9	2009.8	1968.9	1914.4	1849.2	1801.5	1778.8	1697.0
12.5°	2170.3	2165.8	2171.8	2137.8	2090.8	2053.7	2004.5	1928.0	1871.2	1842.4	1740.9
15°	2279.4	2279.4	2271.0	2243.0	2195.3	2149.9	2100.6	2030.2	1962.1	1918.1	1800.0
17.5°	2354.3	2349.8	2347.5	2323.3	2282.4	2243.0	2205.2	2133.2	2059.0	2005.2	1855.3
20°	2386.1	2387.7	2398.3	2380.8	2358.9	2335.4	2293.8	2237.7	2155.9	2098.4	1914.4
22.5°	2447.5	2449.0	2461.9	2449.7	2443.7	2437.6	2399.0	2349.8	2262.7	2207.4	1988.6
25°	2451.3	2452.8	2487.6	2507.3	2538.3	2552.7	2526.2	2483.8	2395.2	2341.5	2099.1
27.5°	2462.6	2467.2	2502.8	2557.3	2639.1	2667.8	2652.7	2651.2	2576.2	2519.4	2243.0
30°	2452.8	2457.3	2508.8	2584.5	2698.1	2782.9	2800.4	2845.0	2814.7	2772.3	2442.9
32.5°	2383.1	2399.8	2461.1	2581.5	2748.9	2902.6	2958.6	3111.6	3157.0	3161.6	2844.3
35°	2256.6	2265.7	2377.0	2546.7	2782.9	3015.4	3169.9	3452.4	3644.7	3636.4	3288.8
37.5°	2160.5	2163.5	2277.8	2487.6	2801.9	3136.6	3410.7	3862.8	4083.9	4093.8	3690.1
40°	2037.0	2059.0	2168.8	2416.4	2791.3	3238.8	3650.0	4245.2	4502.7	4492.1	4042.3
42.5°	1921.9	1934.8	2043.9	2305.1	2752.7	3316.8	3884.8	4615.5	4868.4	4833.6	4380.0
45°	1802.3	1824.2	1924.2	2161.2	2676.2	3360.7	4097.6	4966.9	5198.6	5155.4	4677.6
47.5°	1682.6	1698.5	1804.6	2029.5	2532.3	3359.2	4306.6	5296.3	5491.7	5461.4	4959.3
50°	1280.5	1315.4	1594.0	1891.6	2330.1	3295.6	4475.4	5609.0	5799.1	5752.2	5234.2
52.5°	1173.8	1185.1	1263.1	1731.9	2114.3	3144.2	4607.2	5902.9	6070.2	6016.5	5493.2
55°	1109.4	1123.0	1154.8	1407.8	1937.1	2895.0	4661.7	6177.0	6301.9	6247.4	5724.2
57.5°	1023.8	1037.5	1100.3	1212.4	1752.3	2515.6	4581.4	6420.1	6507.2	6447.3	5938.5
60°	964.8	970.8	1031.4	1119.2	1550.1	2132.5	4313.4	6617.7	6708.6	6637.4	6150.5
62.5°	910.2	917.0	960.2	1047.3	1382.8	1851.5	3896.1	6666.2	6851.7	6796.4	6344.4
65°	847.4	853.4	892.8	970.1	1253.3	1668.3	3466.0	6592.0	6895.6	6832.8	6419.3
67.5°	764.1	772.4	803.5	873.1	1083.6	1460.8	2826.1	6454.9	6703.3	6638.2	6265.6
70°	661.1	664.9	702.0	764.8	915.5	1267.7	2216.5	5967.2	6322.4	6250.5	5832.4
72.5°	533.9	540.7	580.8	646.7	752.0	1044.3	1583.4	5156.2	5840.0	5812.8	5201.6
75°	356.7	383.2	478.6	545.2	621.7	815.6	1063.2	3619.0	5213.8	5235.0	4443.6
77.5°	68.2	70.4	200.7	298.4	363.5	498.3	658.1	1778.1	3436.5	3808.3	3350.9
80°	44.7	48.5	85.6	209.0	240.8	246.9	337.7	779.2	1294.9	1638.0	1932.5
82.5°	23.5	28.0	51.5	121.2	110.6	61.3	110.6	402.1	717.9	824.7	974.6
85°	9.8	11.4	25.0	41.6	31.0	25.7	25.7	160.5	318.1	368.0	382.4
87.5°	1.5	1.5	5.3	7.6	4.5	3.0	2.3	0.8	0.8	0.8	0.8
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°	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7	1635.7
2.5°	1629.6	1616.0	1597.1	1575.1	1559.2	1550.9	1544.1	1525.9	1519.8	1531.9	1528.9
5°	1636.4	1620.5	1577.4	1541.8	1506.2	1484.2	1460.0	1428.2	1414.6	1422.1	1419.9
7.5°	1641.0	1621.3	1556.9	1501.7	1441.8	1400.2	1368.4	1326.7	1306.3	1313.9	1304.8
10°	1647.8	1618.3	1532.7	1459.2	1381.2	1320.7	1273.7	1225.3	1204.0	1210.1	1202.5
12.5°	1676.6	1628.9	1521.3	1422.9	1327.5	1251.8	1192.7	1141.2	1110.9	1117.0	1110.9
15°	1723.5	1650.1	1504.7	1376.7	1270.7	1184.4	1116.2	1057.1	1022.3	1030.6	1023.1
17.5°	1772.8	1675.8	1489.5	1325.2	1210.1	1113.9	1042.8	992.8	936.7	942.0	930.7
20°	1815.2	1700.1	1481.2	1276.7	1153.3	1039.0	953.4	919.3	842.1	822.4	809.5
22.5°	1874.2	1735.6	1474.4	1237.4	1082.9	964.0	862.5	798.9	715.6	674.0	670.2
25°	1958.3	1788.7	1473.6	1206.3	1019.3	885.2	743.6	636.9	563.4	514.2	507.4
27.5°	2065.1	1859.1	1482.0	1175.3	955.7	786.0	597.5	479.3	413.5	375.6	368.8
30°	2218.8	1951.5	1492.6	1139.7	884.5	657.3	445.3	352.9	298.4	271.1	265.8
32.5°	2548.2	2188.5	1508.5	1102.6	798.9	495.3	323.4	256.0	214.3	197.6	206.0
35°	2945.0	2510.3	1579.7	1054.9	686.8	352.9	233.2	182.5	153.7	157.5	162.1
37.5°	3291.8	2817.8	1739.4	993.5	536.9	259.0	160.5	136.3	136.3	148.4	159.0
40°	3619.0	3094.9	1882.6	910.2	376.4	178.7	124.2	126.5	124.2	131.8	129.5
42.5°	3927.9	3357.7	1994.6	811.0	246.1	123.4	112.8	117.4	113.6	115.1	108.3
45°	4220.2	3629.6	2056.7	664.9	163.6	107.5	103.7	111.3	110.6	109.0	102.2
47.5°	4490.6	3868.9	2087.8	479.3	112.8	96.9	97.7	103.0	105.3	103.7	100.0
50°	4755.6	4107.4	2059.8	287.0	101.5	88.6	93.9	93.9	98.4	90.1	87.1
52.5°	5009.3	4346.7	1971.2	174.2	93.1	82.5	87.1	85.6	87.8	79.5	78.0
55°	5247.8	4524.6	1796.2	137.1	87.8	78.8	79.5	81.0	77.2	68.2	71.2
57.5°	5500.0	4676.1	1552.4	124.2	85.6	73.5	75.0	74.2	68.2	59.8	59.8
60°	5707.5	4785.9	1307.8	112.8	84.1	71.9	66.6	65.1	56.0	51.5	50.7
62.5°	5850.6	4817.0	1069.3	100.7	79.5	66.6	59.8	55.3	47.0	42.4	40.9
65°	5862.0	4684.4	814.1	90.9	75.0	62.1	55.3	45.4	37.1	33.3	31.8
67.5°	5629.5	4316.4	574.0	83.3	67.4	57.6	48.5	36.3	29.5	26.5	25.7
70°	5143.3	3859.0	351.4	72.7	61.3	53.8	50.0	29.5	24.2	20.4	20.4
72.5°	4513.3	3342.6	206.0	62.1	51.5	43.2	33.3	25.0	20.4	15.9	15.9
75°	3868.1	2653.5	126.5	47.0	37.9	34.1	25.7	21.2	16.7	12.1	12.1
77.5°	2785.2	1959.0	98.4	30.3	23.5	24.2	18.9	16.7	13.6	9.8	9.8
80°	1709.1	1192.7	70.4	20.4	13.6	13.6	13.6	12.9	9.8	8.3	7.6
82.5°	866.3	545.2	34.8	12.1	8.3	8.3	8.3	9.1	7.6	6.1	6.1
85°	304.4	153.0	10.6	6.1	5.3	5.3	4.5	4.5	3.8	3.0	3.0
87.5°	0.8	1.5	1.5	2.3	3.0	3.0	2.3	1.5	0.8	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)