

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: P233789

Luminaire Tested: **VERD-C02H8-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H8-D-U-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13843 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 110
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

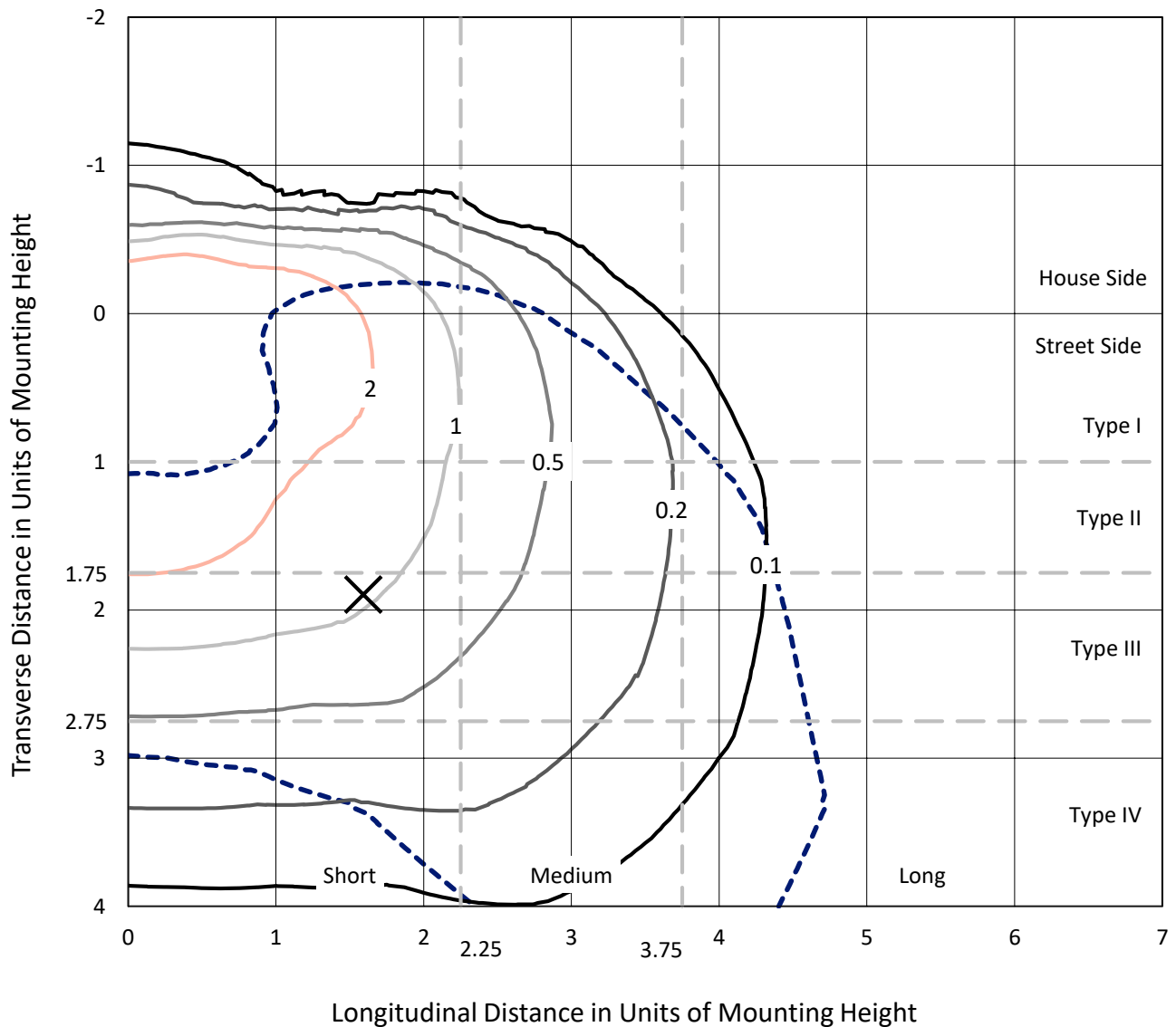


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

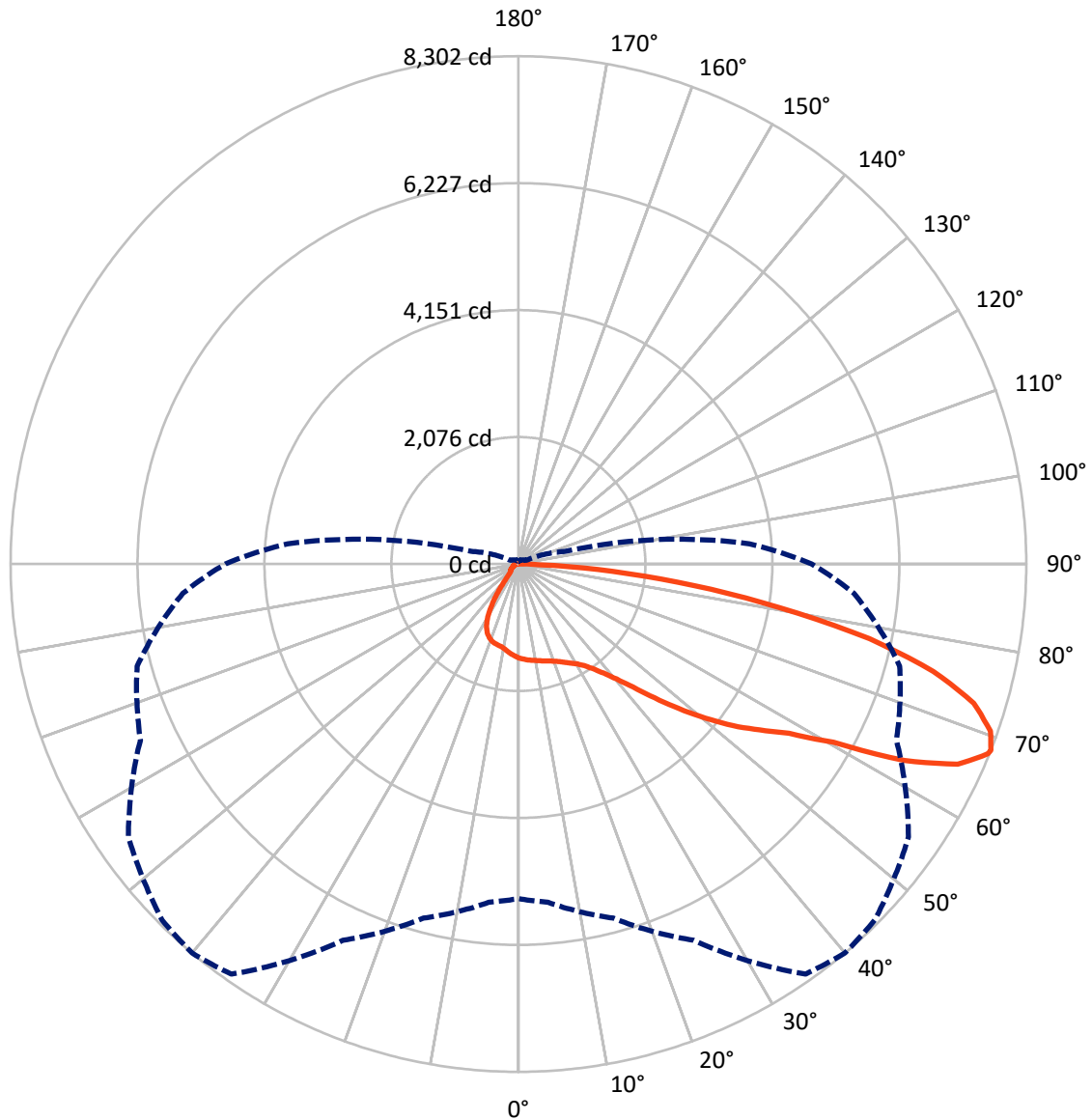


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.6	0.0	2245.6
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11597.4	0.0	11597.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	13843.0	0.0	13843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.1
10°-20°	437.1	3.2
20°-30°	733.6	5.3
30°-40°	1086.4	7.8
40°-50°	1838.0	13.3
50°-60°	2805.1	20.3
60°-70°	3672.9	26.5
70°-80°	2640.6	19.1
80°-90°	483.4	3.5
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°	13843.0	100.0
0°-180°	13843.0	100.0



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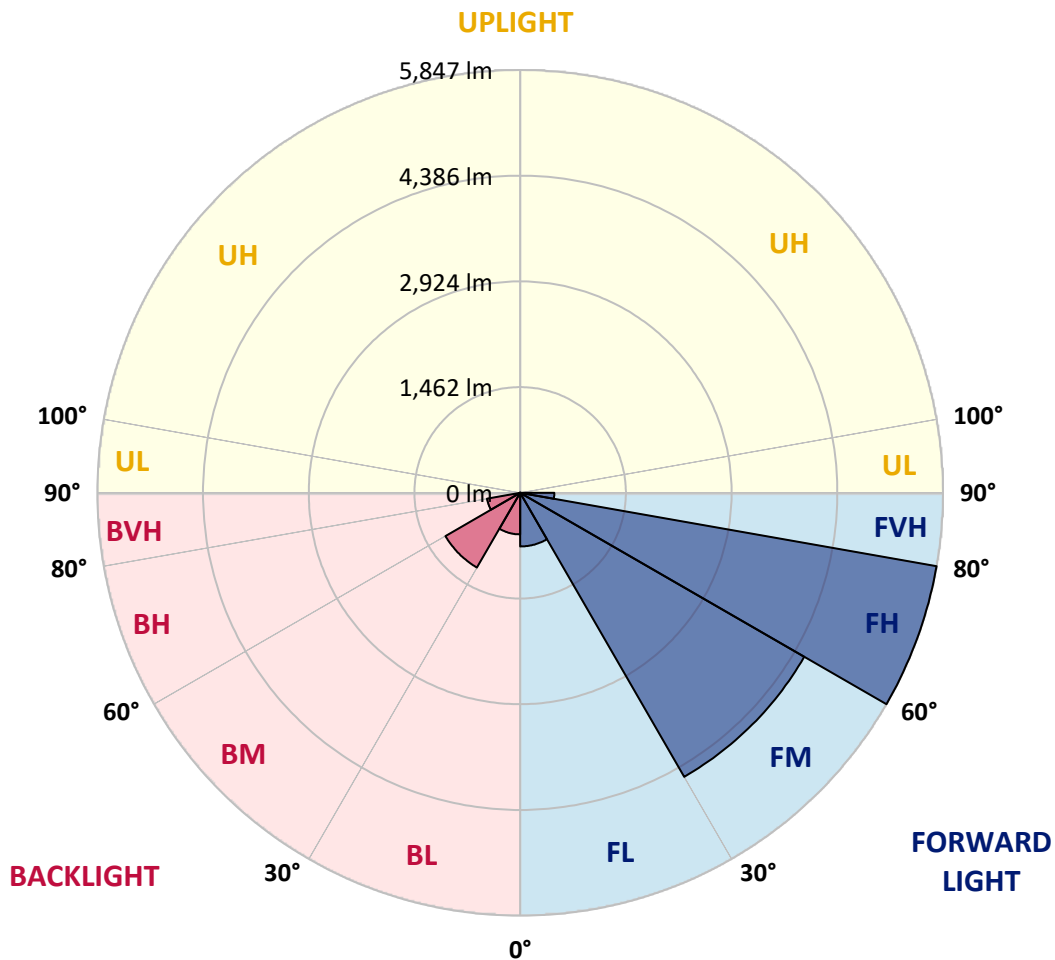
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.1	5.4			
FM	(30°-60°)	4535.9	32.8			
FH	(60°-80°)	5847.5	42.2			G3/7500
FVH	(80°-90°)	471.9	3.4			G3/500
BL	(0°-30°)	574.5	4.2	B2/1000		
BM	(30°-60°)	1193.6	8.6	B2/2500		
BH	(60°-80°)	466.0	3.4	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2
2.5°	1586.9	1590.4	1585.8	1574.2	1561.4	1554.5	1553.3	1552.1	1546.3	1538.2	1526.6
5°	1603.1	1604.3	1599.7	1590.4	1578.8	1576.5	1573.0	1574.2	1570.7	1562.6	1549.8
7.5°	1610.1	1612.4	1606.6	1597.3	1588.1	1588.1	1586.9	1590.4	1588.1	1584.6	1569.5
10°	1607.8	1611.3	1607.8	1604.3	1600.8	1604.3	1602.0	1610.1	1611.3	1611.3	1593.9
12.5°	1604.3	1608.9	1610.1	1613.6	1619.4	1622.8	1627.5	1644.9	1653.0	1658.8	1644.9
15°	1607.8	1610.1	1619.4	1625.2	1636.8	1644.9	1655.3	1684.3	1698.2	1714.4	1707.5
17.5°	1622.8	1628.6	1642.6	1648.3	1659.9	1665.7	1678.5	1714.4	1742.2	1771.2	1775.9
20°	1655.3	1658.8	1682.0	1684.3	1690.1	1695.9	1709.8	1749.2	1790.9	1832.7	1844.2
22.5°	1691.2	1699.4	1721.4	1717.9	1729.5	1731.8	1744.6	1787.4	1845.4	1896.4	1921.9
25°	1728.3	1735.3	1757.3	1759.6	1773.5	1782.8	1797.9	1839.6	1913.8	1978.7	2023.9
27.5°	1759.6	1773.5	1794.4	1796.7	1823.4	1835.0	1857.0	1904.5	1993.8	2073.8	2148.0
30°	1817.6	1821.1	1840.8	1847.7	1883.7	1894.1	1919.6	1979.9	2088.8	2188.5	2304.4
32.5°	1889.5	1888.3	1906.8	1918.4	1962.5	1981.0	2013.5	2083.0	2203.6	2327.6	2492.2
35°	2021.6	2010.0	2021.6	2033.2	2084.2	2103.9	2138.7	2243.0	2384.4	2595.4	2798.2
37.5°	2325.3	2307.9	2283.6	2225.6	2238.4	2263.9	2314.9	2456.3	2664.9	3056.7	3252.6
40°	2851.6	2813.3	2711.3	2558.3	2467.9	2470.2	2517.7	2703.2	3009.2	3585.3	3732.5
42.5°	3328.0	3301.3	3178.5	2968.6	2760.0	2748.4	2764.6	2981.4	3384.8	4075.7	4152.2
45°	3776.6	3789.3	3610.8	3446.2	3197.0	3120.5	3100.8	3278.1	3800.9	4512.7	4519.6
47.5°	4191.6	4212.4	3996.8	3841.5	3595.8	3529.7	3468.3	3590.0	4193.9	4884.8	4828.0
50°	4637.9	4654.1	4355.0	4227.5	4021.2	3959.7	3913.4	3966.7	4596.1	5230.2	5102.7
52.5°	5254.5	5164.1	4788.6	4577.6	4394.4	4389.8	4353.9	4387.5	5054.0	5540.9	5311.3
55°	5982.5	5746.0	5347.3	5010.0	4774.6	4787.4	4744.5	4800.1	5507.2	5807.5	5504.9
57.5°	6239.8	6234.0	6048.6	5725.2	5247.6	5218.6	5144.4	5207.0	5899.0	6056.7	5641.7
60°	6596.9	6628.2	6649.0	6454.3	6178.4	5915.3	5667.2	5661.4	6264.2	6283.9	5708.9
62.5°	6827.5	6856.5	7018.8	6993.3	7163.7	7076.8	6793.9	6166.8	6543.5	6431.1	5734.4
65°	6396.3	6468.2	6877.4	7189.2	7769.9	7891.7	7851.1	6943.5	6733.6	6474.0	5686.9
67.5°	5616.2	5710.1	6158.7	6887.8	8145.5	8281.1	8207.0	7725.9	6815.9	6455.4	5555.9
68°	5470.1	5551.3	5991.8	6787.0	8183.8	8302.0	8234.8	7783.9	6819.4	6453.1	5506.1
70°	4767.7	4833.8	5263.8	6270.0	8077.1	8187.3	8178.0	7838.3	6789.3	6381.3	5171.1
72.5°	3698.9	3765.0	4146.4	5200.1	7584.5	7786.2	7778.1	7620.4	6733.6	6015.0	4335.3
75°	2674.2	2747.2	3095.0	3995.7	6563.2	7007.2	7096.5	7247.2	6155.2	5062.1	3084.6
77.5°	1931.2	1984.5	2284.7	3018.5	5361.2	5868.9	6049.7	6201.6	5037.8	3689.7	1467.5
80°	1287.8	1326.1	1615.9	2244.2	4038.6	4337.6	4532.4	4278.5	2866.6	1334.2	158.8
82.5°	792.9	817.2	1045.6	1574.2	2793.6	2887.5	2888.7	2282.4	923.9	127.5	85.8
85°	425.4	433.5	568.0	858.9	1475.6	1546.3	1518.5	958.6	186.6	68.4	46.4
87.5°	68.4	74.2	178.5	322.3	455.6	351.2	224.9	70.7	18.5	10.4	7.0
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°	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2	1538.2
2.5°	1532.4	1529.0	1519.7	1515.0	1503.4	1506.9	1506.9	1497.7	1502.3	1520.8	1518.5
5°	1546.3	1547.5	1525.5	1513.9	1488.4	1481.4	1471.0	1457.1	1455.9	1468.7	1469.8
7.5°	1557.9	1563.7	1532.4	1509.2	1474.5	1450.1	1429.3	1404.9	1399.1	1407.2	1407.2
10°	1576.5	1582.3	1542.9	1510.4	1459.4	1420.0	1384.1	1352.8	1340.0	1340.0	1341.2
12.5°	1625.2	1621.7	1576.5	1526.6	1466.4	1403.8	1347.0	1305.2	1275.1	1273.9	1269.3
15°	1692.4	1679.6	1635.6	1560.2	1482.6	1402.6	1323.8	1258.9	1206.7	1192.8	1187.0
17.5°	1764.3	1748.0	1694.7	1603.1	1508.1	1401.4	1297.1	1206.7	1119.8	1086.1	1075.7
20°	1841.9	1822.2	1767.7	1653.0	1533.6	1393.3	1257.7	1131.4	1013.1	949.4	933.1
22.5°	1927.7	1911.5	1845.4	1704.0	1551.0	1375.9	1196.3	1036.3	885.6	794.0	787.1
25°	2039.0	2023.9	1926.5	1749.2	1552.1	1343.5	1115.1	914.6	725.6	617.8	595.8
27.5°	2172.3	2145.6	1991.5	1777.0	1533.6	1286.7	1009.6	752.3	539.0	448.6	446.3
30°	2317.2	2268.5	2043.6	1784.0	1491.9	1196.3	864.7	552.9	382.5	321.1	321.1
32.5°	2487.6	2398.3	2096.9	1772.4	1423.5	1071.1	661.9	383.7	263.1	234.2	234.2
35°	2736.8	2598.9	2165.3	1743.4	1327.3	898.4	470.6	253.9	207.5	204.0	204.0
37.5°	3130.9	2901.4	2258.1	1694.7	1195.1	685.1	306.0	195.9	198.2	198.2	197.1
40°	3550.6	3251.5	2385.6	1617.0	1029.3	472.9	200.5	185.5	188.9	191.3	190.1
42.5°	3929.6	3584.2	2524.7	1512.7	833.4	297.9	183.1	178.5	176.2	178.5	179.7
45°	4257.6	3872.8	2664.9	1377.1	615.5	194.7	178.5	168.1	161.1	162.3	163.4
47.5°	4538.2	4100.0	2760.0	1234.5	408.0	172.7	172.7	154.2	147.2	147.2	147.2
50°	4783.9	4301.7	2818.0	1064.1	243.4	170.4	162.3	141.4	134.5	133.3	134.5
52.5°	4962.4	4443.1	2811.0	856.6	163.4	164.6	148.4	129.8	121.7	124.0	125.2
55°	5103.8	4532.4	2749.6	627.1	153.0	154.2	137.9	117.1	111.3	112.4	112.4
57.5°	5193.1	4554.4	2624.4	408.0	149.5	137.9	124.0	104.3	97.4	97.4	97.4
60°	5222.1	4542.8	2454.0	260.8	148.4	124.0	112.4	93.9	86.9	86.9	86.9
62.5°	5197.7	4475.6	2165.3	187.8	137.9	115.9	102.0	83.5	76.5	74.2	74.2
65°	5110.8	4295.9	1669.2	155.3	124.0	106.6	92.7	75.3	66.1	62.6	61.4
67.5°	4856.9	3906.4	971.4	146.1	112.4	97.4	85.8	68.4	58.0	52.2	51.0
68°	4790.9	3790.5	798.7	144.9	112.4	96.2	84.6	66.1	55.6	49.8	48.7
70°	4317.9	3057.9	229.5	137.9	110.1	92.7	77.7	60.3	49.8	42.9	41.7
72.5°	3251.5	1792.1	143.7	122.9	109.0	82.3	75.3	60.3	44.0	37.1	34.8
75°	1815.3	408.0	121.7	91.6	102.0	81.1	74.2	54.5	39.4	30.1	29.0
77.5°	373.3	118.2	104.3	63.8	77.7	70.7	62.6	46.4	35.9	23.2	22.0
80°	105.5	88.1	92.7	46.4	44.0	49.8	46.4	40.6	26.7	17.4	17.4
82.5°	68.4	64.9	83.5	31.3	23.2	23.2	30.1	24.3	23.2	13.9	13.9
85°	41.7	54.5	40.6	13.9	11.6	9.3	10.4	10.4	13.9	9.3	9.3
87.5°	5.8	5.8	5.8	5.8	5.8	4.6	3.5	3.5	3.5	4.6	4.6
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)