

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: P233950

Luminaire Tested: **VERD-G-C029-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233950
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-G-C029-D-U-T4-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13337 lumens
Efficiency: N/A
Efficacy: 110.2 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

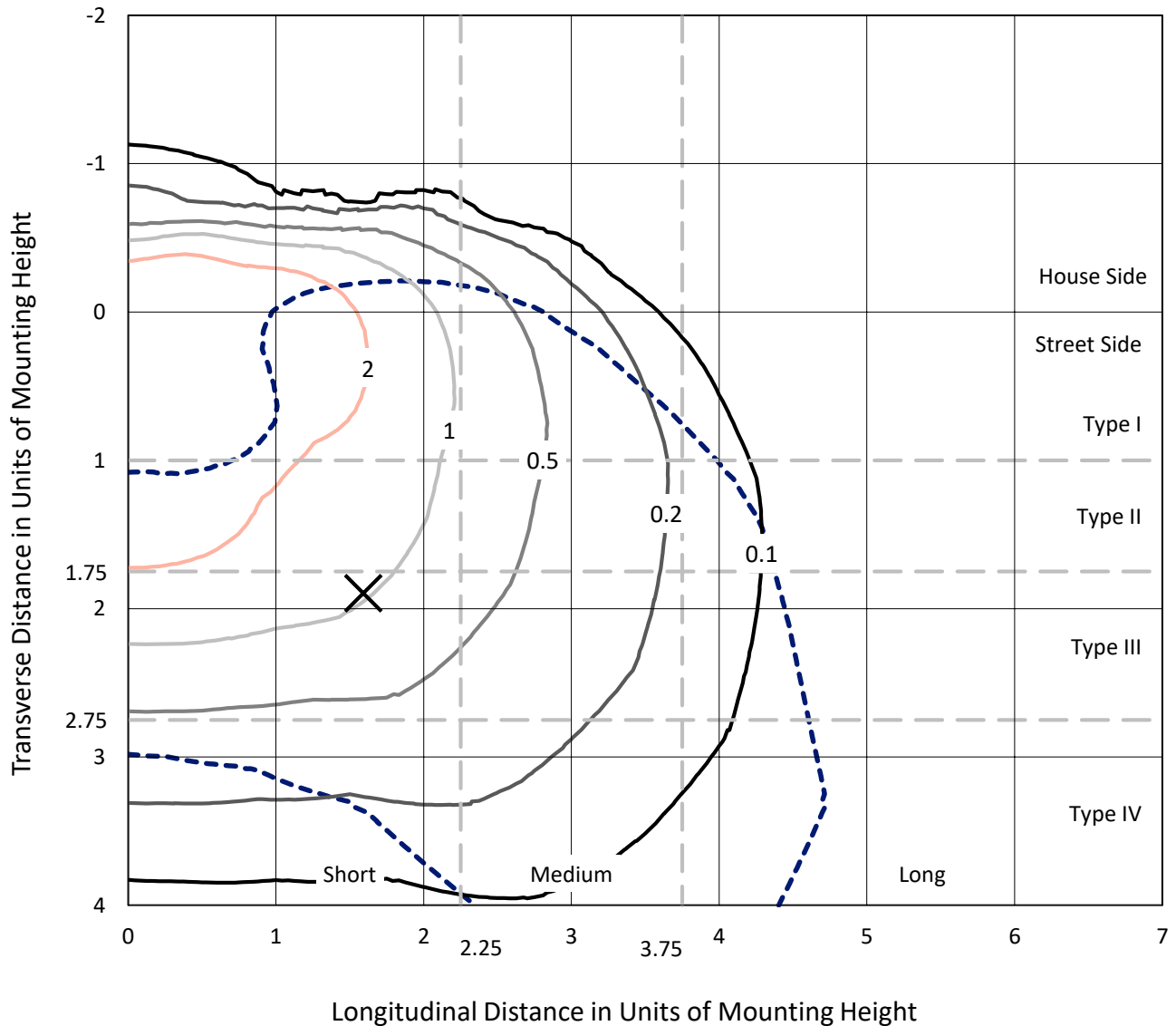
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

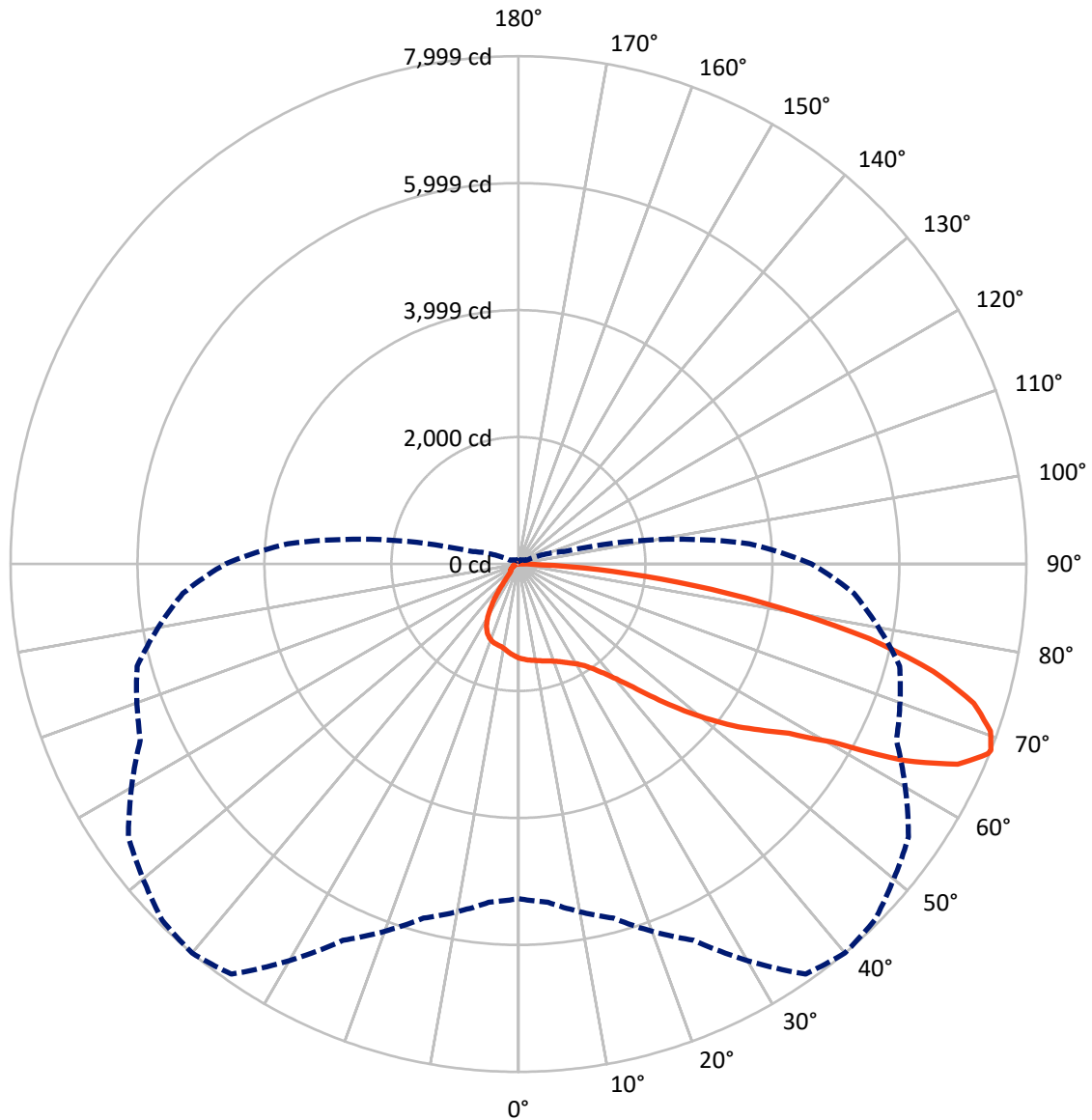
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2163.5	0.0	2163.5
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11173.5	0.0	11173.5
	% Fixture	83.8	0.0	83.8
Total	Lumens	13337.0	0.0	13337.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	1.1
10°-20°	421.1	3.2
20°-30°	706.8	5.3
30°-40°	1046.7	7.8
40°-50°	1770.8	13.3
50°-60°	2702.5	20.3
60°-70°	3538.6	26.5
70°-80°	2544.1	19.1
80°-90°	465.7	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°	13337.0	100.0
0°-180°	13337.0	100.0



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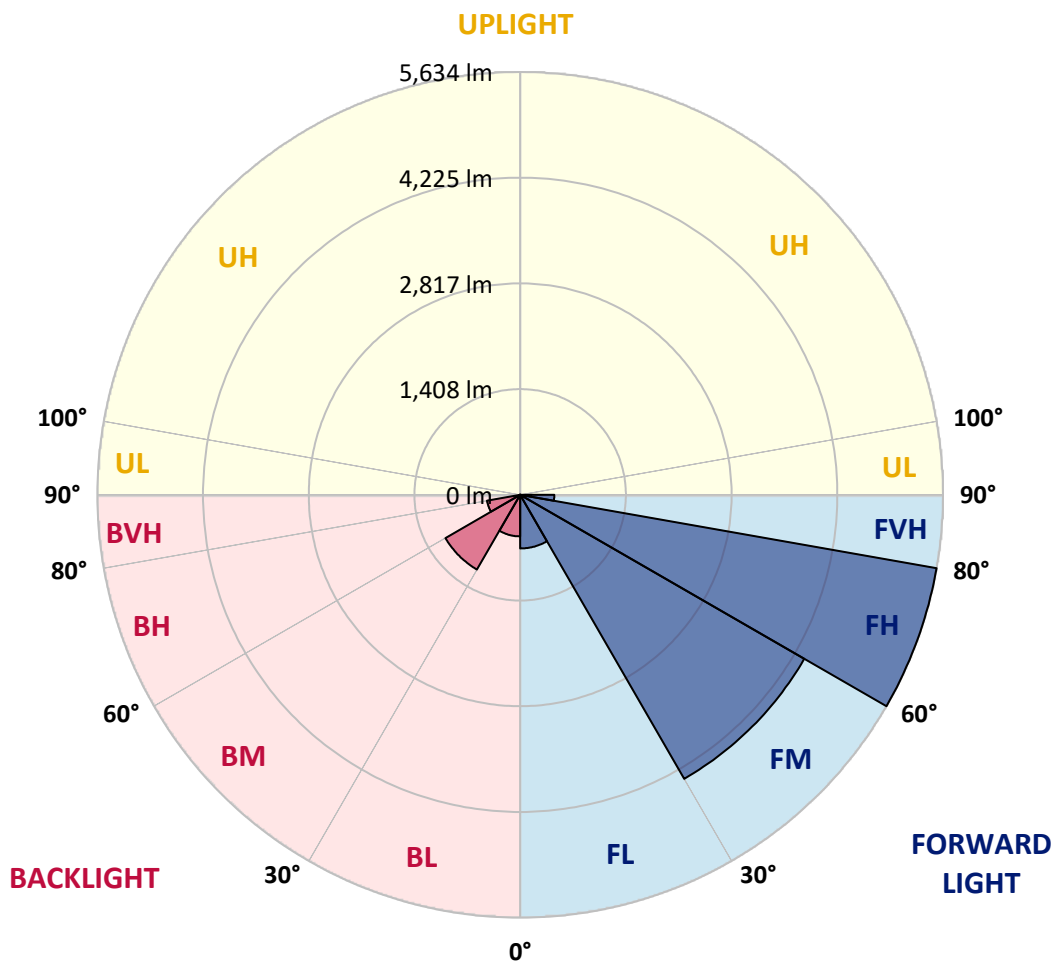
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.0	5.4			
FM	(30°-60°)	4370.1	32.8			
FH	(60°-80°)	5633.7	42.2			G3/7500
FVH	(80°-90°)	454.7	3.4			G3/500
BL	(0°-30°)	553.5	4.2	B2/1000		
BM	(30°-60°)	1149.9	8.6	B2/2500		
BH	(60°-80°)	449.0	3.4	B1/500		G1/500
BVH	(80°-90°)	11.1	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°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1528.9	1532.3	1527.8	1516.6	1504.3	1497.6	1496.5	1495.4	1489.8	1482.0	1470.8
5°	1544.5	1545.7	1541.2	1532.3	1521.1	1518.9	1515.5	1516.6	1513.3	1505.5	1493.2
7.5°	1551.2	1553.5	1547.9	1539.0	1530.0	1530.0	1528.9	1532.3	1530.0	1526.7	1512.2
10°	1549.0	1552.4	1549.0	1545.7	1542.3	1545.7	1543.4	1551.2	1552.4	1552.4	1535.6
12.5°	1545.7	1550.1	1551.2	1554.6	1560.2	1563.5	1568.0	1584.7	1592.6	1598.1	1584.7
15°	1549.0	1551.2	1560.2	1565.8	1576.9	1584.7	1594.8	1622.7	1636.1	1651.8	1645.1
17.5°	1563.5	1569.1	1582.5	1588.1	1599.3	1604.8	1617.1	1651.8	1678.6	1706.5	1710.9
20°	1594.8	1598.1	1620.5	1622.7	1628.3	1633.9	1647.3	1685.3	1725.5	1765.7	1776.8
22.5°	1629.4	1637.2	1658.5	1655.1	1666.3	1668.5	1680.8	1722.1	1778.0	1827.1	1851.7
25°	1665.2	1671.9	1693.1	1695.3	1708.7	1717.6	1732.2	1772.4	1843.8	1906.4	1949.9
27.5°	1695.3	1708.7	1728.8	1731.0	1756.7	1767.9	1789.1	1834.9	1920.9	1998.0	2069.4
30°	1751.1	1754.5	1773.5	1780.2	1814.8	1824.9	1849.4	1907.5	2012.5	2108.5	2220.2
32.5°	1820.4	1819.3	1837.1	1848.3	1890.7	1908.6	1939.9	2006.9	2123.0	2242.5	2401.1
35°	1947.7	1936.5	1947.7	1958.9	2008.0	2027.0	2060.5	2161.0	2297.3	2500.5	2696.0
37.5°	2240.3	2223.6	2200.1	2144.3	2156.5	2181.1	2230.3	2366.5	2567.5	2945.0	3133.8
40°	2747.3	2710.5	2612.2	2464.8	2377.7	2379.9	2425.7	2604.4	2899.2	3454.3	3596.1
42.5°	3206.3	3180.7	3062.3	2860.1	2659.1	2647.9	2663.6	2872.4	3261.1	3926.7	4000.4
45°	3638.5	3650.8	3478.8	3320.3	3080.1	3006.4	2987.4	3158.3	3662.0	4347.7	4354.4
47.5°	4038.4	4058.5	3850.7	3701.1	3464.3	3400.7	3341.5	3458.7	4040.6	4706.2	4651.5
50°	4468.3	4484.0	4195.8	4073.0	3874.2	3815.0	3770.3	3821.7	4428.1	5039.0	4916.2
52.5°	5062.5	4975.4	4613.5	4410.3	4233.8	4229.3	4194.7	4227.1	4869.3	5338.3	5117.2
55°	5763.8	5536.0	5151.8	4826.8	4600.1	4612.4	4571.1	4624.7	5305.9	5595.2	5303.7
57.5°	6011.8	6006.2	5827.5	5515.9	5055.8	5027.8	4956.4	5016.7	5683.4	5835.3	5435.5
60°	6355.7	6385.9	6406.0	6218.4	5952.6	5699.0	5460.1	5454.5	6035.2	6054.2	5500.3
62.5°	6578.0	6605.9	6762.2	6737.7	6901.8	6818.1	6545.6	5941.4	6304.4	6196.0	5524.8
65°	6162.5	6231.8	6626.0	6926.4	7485.9	7603.2	7564.1	6689.7	6487.5	6237.3	5479.0
67.5°	5410.9	5501.4	5933.6	6636.0	7847.8	7978.4	7907.0	7443.5	6566.8	6219.5	5352.8
68°	5270.2	5348.4	5772.8	6538.9	7884.6	7998.5	7933.8	7499.3	6570.2	6217.2	5304.8
70°	4593.4	4657.1	5071.4	6040.8	7781.9	7888.0	7879.0	7551.8	6541.1	6148.0	4982.1
72.5°	3563.7	3627.4	3994.8	5010.0	7307.2	7501.6	7493.8	7341.9	6487.5	5795.1	4176.8
75°	2576.5	2646.8	2981.9	3849.6	6323.3	6751.1	6837.1	6982.3	5930.2	4877.1	2971.8
77.5°	1860.6	1912.0	2201.2	2908.2	5165.2	5654.4	5828.6	5974.9	4853.6	3554.8	1413.9
80°	1240.8	1277.6	1556.8	2162.1	3890.9	4179.1	4366.7	4122.1	2761.9	1285.4	153.0
82.5°	763.9	787.3	1007.4	1516.6	2691.5	2782.0	2783.1	2199.0	890.1	122.8	82.6
85°	409.9	417.7	547.2	827.6	1421.7	1489.8	1463.0	923.6	179.8	65.9	44.7
87.5°	65.9	71.5	172.0	310.5	438.9	338.4	216.7	68.1	17.9	10.1	6.7
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°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1476.4	1473.1	1464.1	1459.7	1448.5	1451.8	1451.8	1442.9	1447.4	1465.2	1463.0
5°	1489.8	1490.9	1469.7	1458.5	1434.0	1427.3	1417.2	1403.8	1402.7	1415.0	1416.1
7.5°	1501.0	1506.6	1476.4	1454.1	1420.6	1397.1	1377.0	1353.6	1348.0	1355.8	1355.8
10°	1518.9	1524.4	1486.5	1455.2	1406.1	1368.1	1333.5	1303.3	1291.0	1291.0	1292.1
12.5°	1565.8	1562.4	1518.9	1470.8	1412.8	1352.4	1297.7	1257.5	1228.5	1227.4	1222.9
15°	1630.5	1618.2	1575.8	1503.2	1428.4	1351.3	1275.4	1212.8	1162.6	1149.2	1143.6
17.5°	1699.8	1684.1	1632.8	1544.5	1453.0	1350.2	1249.7	1162.6	1078.8	1046.4	1036.4
20°	1774.6	1755.6	1703.1	1592.6	1477.5	1342.4	1211.7	1090.0	976.1	914.7	899.0
22.5°	1857.2	1841.6	1778.0	1641.7	1494.3	1325.6	1152.5	998.4	853.2	765.0	758.3
25°	1964.5	1949.9	1856.1	1685.3	1495.4	1294.4	1074.4	881.2	699.1	595.3	574.0
27.5°	2092.9	2067.2	1918.7	1712.1	1477.5	1239.7	972.7	724.8	519.3	432.2	430.0
30°	2232.5	2185.6	1968.9	1718.8	1437.3	1152.5	833.1	532.7	368.5	309.4	309.4
32.5°	2396.7	2310.7	2020.3	1707.6	1371.4	1031.9	637.7	369.7	253.5	225.6	225.6
35°	2636.8	2503.9	2086.2	1679.7	1278.7	865.5	453.4	244.6	199.9	196.6	196.6
37.5°	3016.5	2795.4	2175.5	1632.8	1151.4	660.0	294.8	188.7	191.0	191.0	189.9
40°	3420.8	3132.6	2298.4	1557.9	991.7	455.7	193.2	178.7	182.0	184.3	183.2
42.5°	3786.0	3453.2	2432.4	1457.4	803.0	287.0	176.5	172.0	169.8	172.0	173.1
45°	4102.0	3731.2	2567.5	1326.8	593.0	187.6	172.0	161.9	155.2	156.4	157.5
47.5°	4372.3	3950.1	2659.1	1189.4	393.1	166.4	166.4	148.5	141.8	141.8	141.8
50°	4609.0	4144.5	2714.9	1025.2	234.5	164.2	156.4	136.3	129.5	128.4	129.5
52.5°	4781.0	4280.7	2708.2	825.3	157.5	158.6	143.0	125.1	117.3	119.5	120.6
55°	4917.3	4366.7	2649.1	604.2	147.4	148.5	132.9	112.8	107.2	108.3	108.3
57.5°	5003.3	4387.9	2528.4	393.1	144.1	132.9	119.5	100.5	93.8	93.8	93.8
60°	5031.2	4376.8	2364.3	251.3	143.0	119.5	108.3	90.5	83.8	83.8	83.8
62.5°	5007.7	4312.0	2086.2	180.9	132.9	111.7	98.3	80.4	73.7	71.5	71.5
65°	4924.0	4138.9	1608.2	149.7	119.5	102.7	89.3	72.6	63.7	60.3	59.2
67.5°	4679.4	3763.6	935.9	140.7	108.3	93.8	82.6	65.9	55.8	50.3	49.1
68°	4615.7	3651.9	769.5	139.6	108.3	92.7	81.5	63.7	53.6	48.0	46.9
70°	4160.1	2946.1	221.1	132.9	106.1	89.3	74.8	58.1	48.0	41.3	40.2
72.5°	3132.6	1726.6	138.5	118.4	105.0	79.3	72.6	58.1	42.4	35.7	33.5
75°	1748.9	393.1	117.3	88.2	98.3	78.2	71.5	52.5	38.0	29.0	27.9
77.5°	359.6	113.9	100.5	61.4	74.8	68.1	60.3	44.7	34.6	22.3	21.2
80°	101.6	84.9	89.3	44.7	42.4	48.0	44.7	39.1	25.7	16.8	16.8
82.5°	65.9	62.5	80.4	30.2	22.3	22.3	29.0	23.5	22.3	13.4	13.4
85°	40.2	52.5	39.1	13.4	11.2	8.9	10.1	10.1	13.4	8.9	8.9
87.5°	5.6	5.6	5.6	5.6	5.6	4.5	3.4	3.4	3.4	4.5	4.5
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)