

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: P233947

Luminaire Tested: **VERD-G-C02-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233947
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-C02-D-U-T4-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13323 lumens
Efficiency: N/A
Efficacy: 96.5 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): 138
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

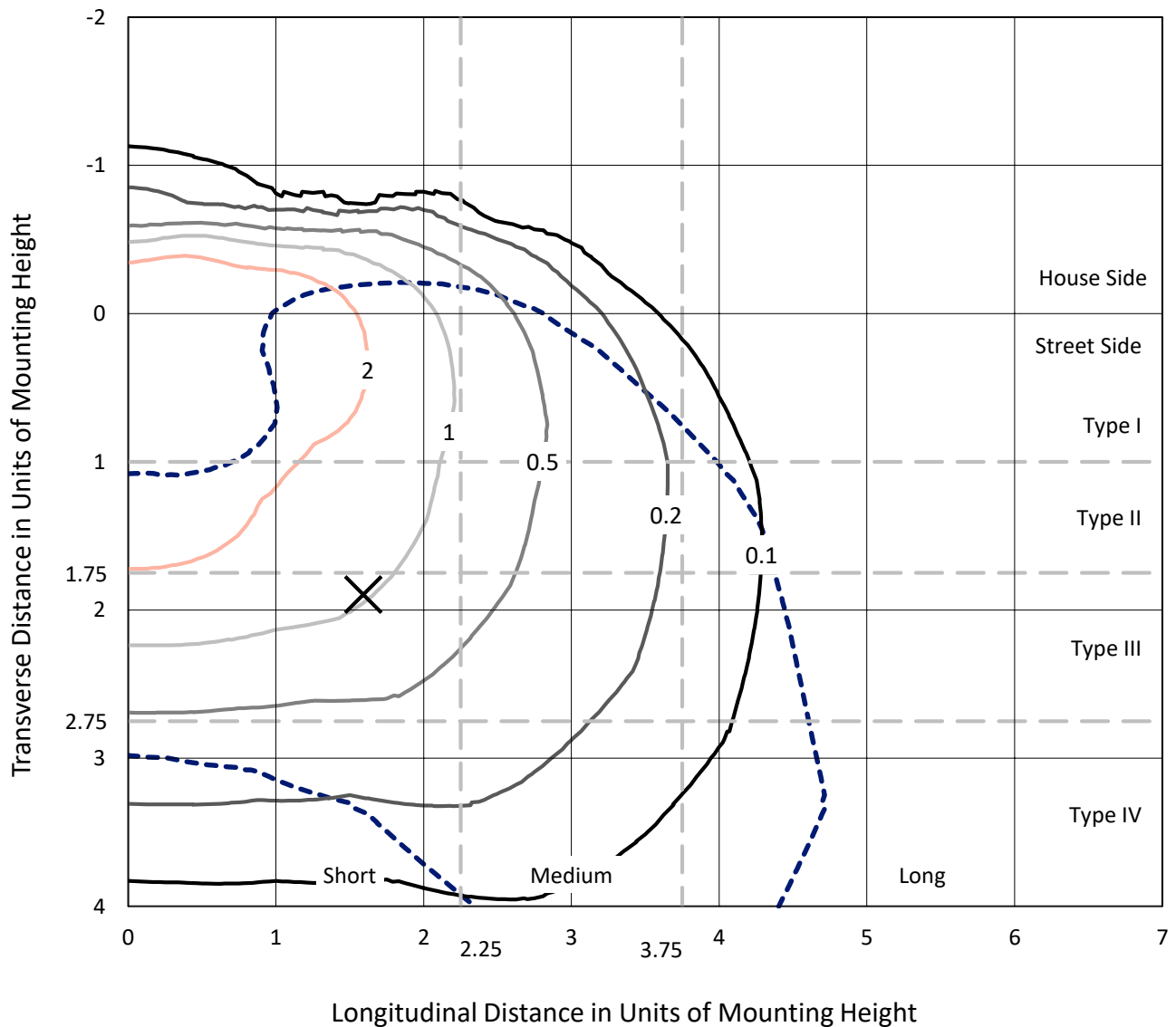


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

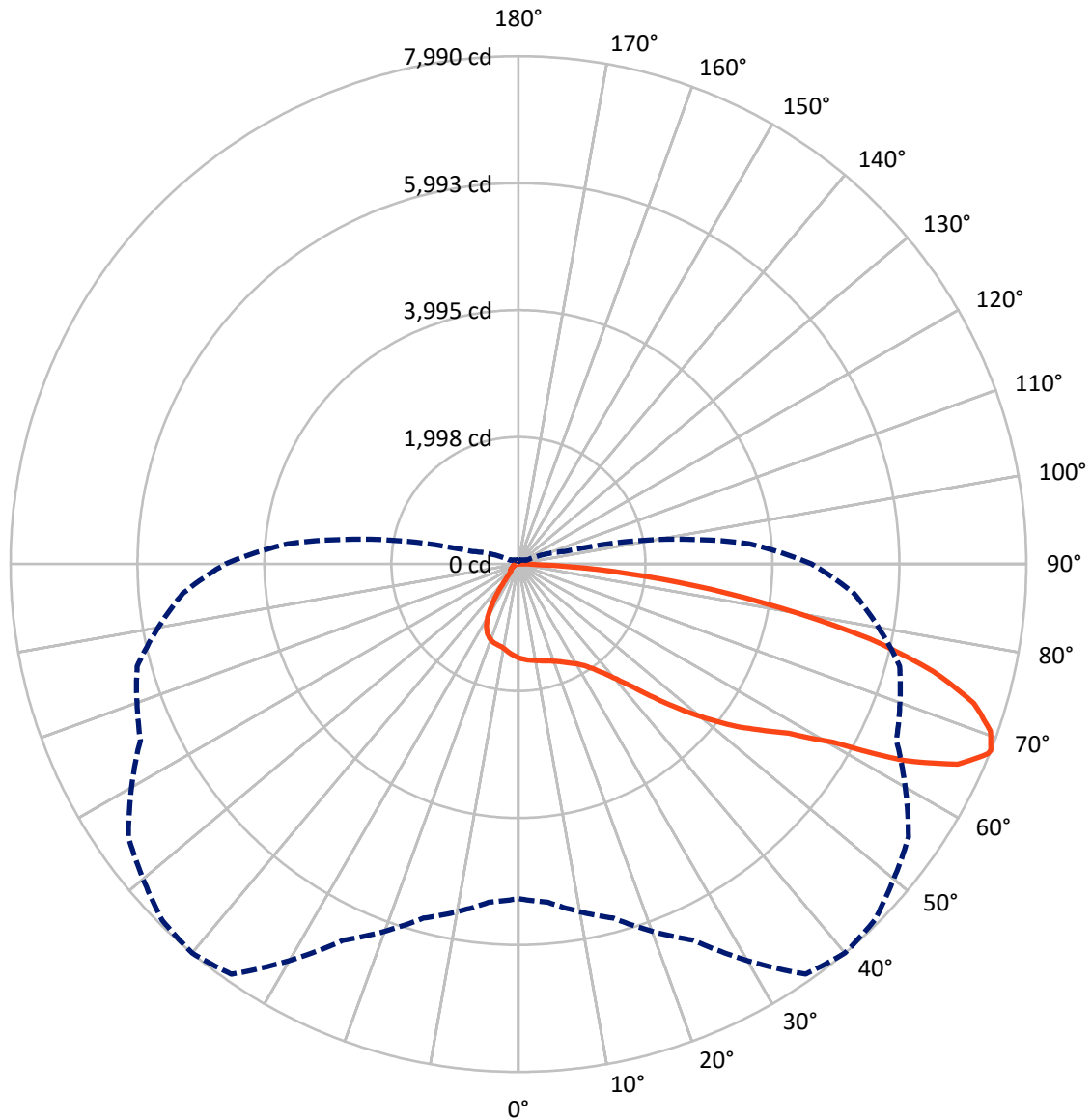


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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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	2161.3	0.0	2161.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11161.8	0.0	11161.8
	% Fixture	83.8	0.0	83.8
Total	Lumens	13323.0	0.0	13323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.1
10°-20°	420.7	3.2
20°-30°	706.0	5.3
30°-40°	1045.6	7.8
40°-50°	1768.9	13.3
50°-60°	2699.7	20.3
60°-70°	3534.9	26.5
70°-80°	2541.4	19.1
80°-90°	465.2	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°	13323.0	100.0
0°-180°	13323.0	100.0



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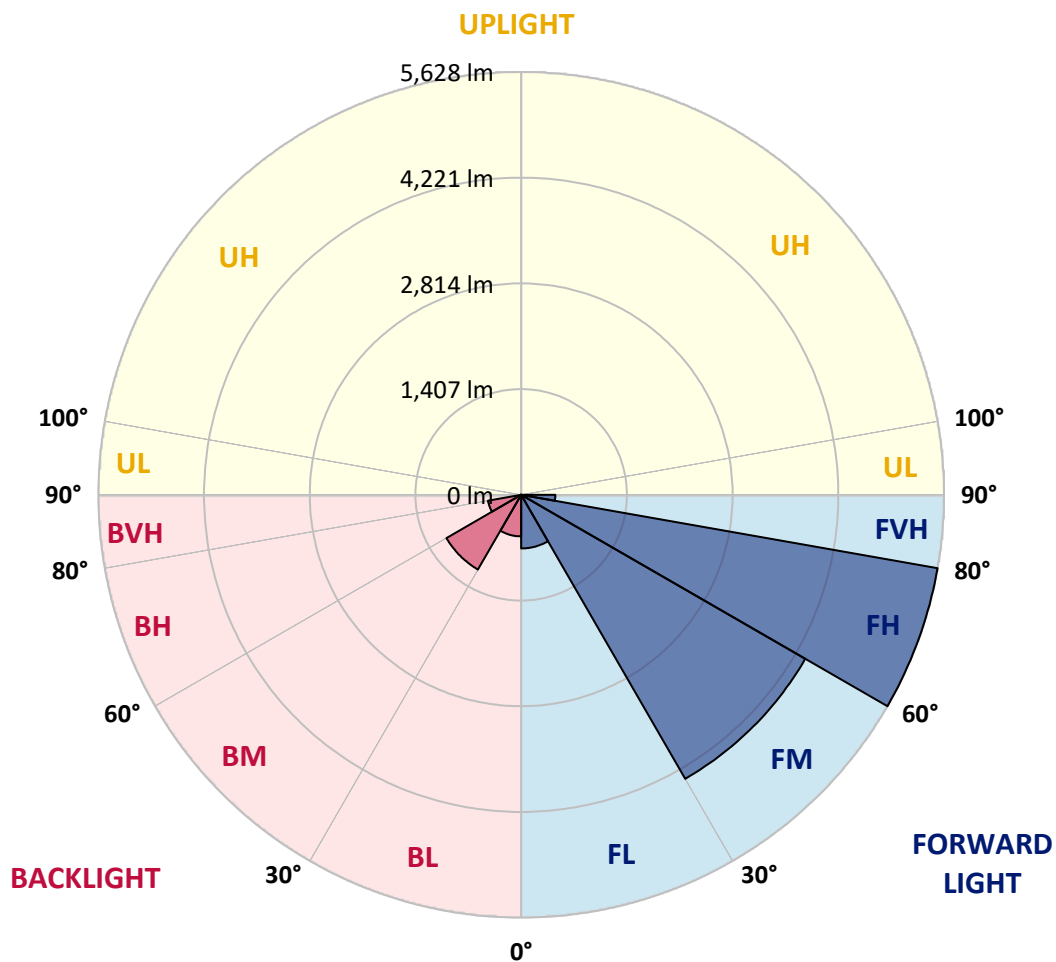
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.2	5.4			
FM (30°-60°)	4365.5	32.8			
FH (60°-80°)	5627.8	42.2			G3/7500
FVH (80°-90°)	454.2	3.4			G3/500
BL (0°-30°)	553.0	4.2	B2/1000		
BM (30°-60°)	1148.7	8.6	B2/2500		
BH (60°-80°)	448.5	3.4	B1/500		G1/500
BVH (80°-90°)	11.0	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°	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4
2.5°	1527.3	1530.6	1526.2	1515.0	1502.8	1496.1	1494.9	1493.8	1488.3	1480.4	1469.3
5°	1542.9	1544.0	1539.6	1530.6	1519.5	1517.3	1513.9	1515.0	1511.7	1503.9	1491.6
7.5°	1549.6	1551.8	1546.3	1537.3	1528.4	1528.4	1527.3	1530.6	1528.4	1525.1	1510.6
10°	1547.4	1550.7	1547.4	1544.0	1540.7	1544.0	1541.8	1549.6	1550.7	1550.7	1534.0
12.5°	1544.0	1548.5	1549.6	1553.0	1558.5	1561.9	1566.3	1583.1	1590.9	1596.5	1583.1
15°	1547.4	1549.6	1558.5	1564.1	1575.3	1583.1	1593.1	1621.0	1634.4	1650.0	1643.3
17.5°	1561.9	1567.5	1580.8	1586.4	1597.6	1603.2	1615.4	1650.0	1676.8	1704.7	1709.1
20°	1593.1	1596.5	1618.8	1621.0	1626.6	1632.2	1645.6	1683.5	1723.7	1763.8	1775.0
22.5°	1627.7	1635.5	1656.7	1653.4	1664.5	1666.8	1679.0	1720.3	1776.1	1825.2	1849.7
25°	1663.4	1670.1	1691.3	1693.5	1706.9	1715.8	1730.3	1770.5	1841.9	1904.4	1947.9
27.5°	1693.5	1706.9	1727.0	1729.2	1754.9	1766.0	1787.2	1833.0	1918.9	1995.9	2067.3
30°	1749.3	1752.7	1771.6	1778.3	1812.9	1822.9	1847.5	1905.5	2010.4	2106.3	2217.9
32.5°	1818.5	1817.4	1835.2	1846.4	1888.8	1906.6	1937.9	2004.8	2120.8	2240.2	2398.6
35°	1945.7	1934.5	1945.7	1956.8	2005.9	2024.9	2058.3	2158.7	2294.9	2497.9	2693.1
37.5°	2238.0	2221.2	2197.8	2142.0	2154.3	2178.8	2227.9	2364.0	2564.8	2941.9	3130.5
40°	2744.5	2707.6	2609.5	2462.2	2375.2	2377.4	2423.2	2601.7	2896.2	3450.6	3592.3
42.5°	3203.0	3177.3	3059.1	2857.1	2656.3	2645.2	2660.8	2869.4	3257.6	3922.6	3996.2
45°	3634.7	3647.0	3475.2	3316.8	3076.9	3003.3	2984.3	3155.0	3658.2	4343.2	4349.8
47.5°	4034.1	4054.2	3846.7	3697.2	3460.7	3397.1	3338.0	3455.1	4036.4	4701.3	4646.6
50°	4463.6	4479.3	4191.4	4068.7	3870.1	3811.0	3766.4	3817.7	4423.5	5033.7	4911.0
52.5°	5057.2	4970.1	4608.7	4405.6	4229.4	4224.9	4190.3	4222.7	4864.2	5332.7	5111.8
55°	5757.8	5530.2	5146.4	4821.8	4595.3	4607.6	4566.3	4619.8	5300.4	5589.3	5298.1
57.5°	6005.4	5999.9	5821.4	5510.1	5050.5	5022.6	4951.2	5011.4	5677.4	5829.2	5429.8
60°	6349.1	6379.2	6399.3	6211.8	5946.3	5693.1	5454.3	5448.7	6028.9	6047.8	5494.5
62.5°	6571.1	6599.0	6755.1	6730.6	6894.6	6810.9	6538.7	5935.2	6297.7	6189.5	5519.0
65°	6156.1	6225.2	6619.0	6919.1	7478.1	7595.2	7556.2	6682.6	6480.7	6230.8	5473.3
67.5°	5405.2	5495.6	5927.3	6629.1	7839.5	7970.1	7898.7	7435.7	6559.9	6213.0	5347.2
68°	5264.7	5342.8	5766.7	6532.0	7876.4	7990.2	7925.4	7491.5	6563.3	6210.7	5299.2
70°	4588.6	4652.2	5066.1	6034.4	7773.7	7879.7	7870.8	7543.9	6534.3	6141.6	4976.8
72.5°	3560.0	3623.6	3990.6	5004.7	7299.6	7493.7	7485.9	7334.2	6480.7	5789.0	4172.5
75°	2573.8	2644.0	2978.7	3845.6	6316.7	6744.0	6829.9	6974.9	5924.0	4872.0	2968.7
77.5°	1858.6	1910.0	2198.9	2905.1	5159.8	5648.4	5822.5	5968.6	4848.5	3551.1	1412.4
80°	1239.5	1276.3	1555.2	2159.9	3886.9	4174.7	4362.1	4117.8	2759.0	1284.1	152.8
82.5°	763.1	786.5	1006.3	1515.0	2688.7	2779.0	2780.2	2196.7	889.2	122.7	82.6
85°	409.4	417.2	546.7	826.7	1420.2	1488.3	1461.5	922.6	179.6	65.8	44.6
87.5°	65.8	71.4	171.8	310.1	438.4	338.0	216.4	68.1	17.9	10.0	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°	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4	1480.4
2.5°	1474.9	1471.5	1462.6	1458.1	1447.0	1450.3	1450.3	1441.4	1445.9	1463.7	1461.5
5°	1488.3	1489.4	1468.2	1457.0	1432.5	1425.8	1415.7	1402.3	1401.2	1413.5	1414.6
7.5°	1499.4	1505.0	1474.9	1452.6	1419.1	1395.7	1375.6	1352.1	1346.6	1354.4	1354.4
10°	1517.3	1522.8	1484.9	1453.7	1404.6	1366.6	1332.1	1301.9	1289.7	1289.7	1290.8
12.5°	1564.1	1560.8	1517.3	1469.3	1411.3	1351.0	1296.4	1256.2	1227.2	1226.1	1221.6
15°	1628.8	1616.5	1574.2	1501.6	1426.9	1349.9	1274.1	1211.6	1161.4	1148.0	1142.4
17.5°	1698.0	1682.4	1631.1	1542.9	1451.4	1348.8	1248.4	1161.4	1077.7	1045.3	1035.3
20°	1772.7	1753.8	1701.3	1590.9	1476.0	1341.0	1210.5	1088.9	975.1	913.7	898.1
22.5°	1855.3	1839.7	1776.1	1640.0	1492.7	1324.3	1151.3	997.4	852.3	764.2	757.5
25°	1962.4	1947.9	1854.2	1683.5	1493.8	1293.0	1073.2	880.2	698.4	594.6	573.4
27.5°	2090.7	2065.0	1916.7	1710.3	1476.0	1238.4	971.7	724.0	518.8	431.7	429.5
30°	2230.1	2183.3	1966.9	1717.0	1435.8	1151.3	832.3	532.2	368.2	309.0	309.0
32.5°	2394.1	2308.2	2018.2	1705.8	1370.0	1030.8	637.0	369.3	253.2	225.4	225.4
35°	2634.0	2501.2	2084.0	1677.9	1277.4	864.6	452.9	244.3	199.7	196.4	196.4
37.5°	3013.3	2792.4	2173.2	1631.1	1150.2	659.3	294.5	188.5	190.8	190.8	189.7
40°	3417.2	3129.3	2296.0	1556.3	990.7	455.2	193.0	178.5	181.8	184.1	183.0
42.5°	3782.0	3449.5	2429.8	1455.9	802.1	286.7	176.3	171.8	169.6	171.8	172.9
45°	4097.7	3727.3	2564.8	1325.4	592.4	187.4	171.8	161.8	155.1	156.2	157.3
47.5°	4367.7	3946.0	2656.3	1188.1	392.7	166.2	166.2	148.4	141.7	141.7	141.7
50°	4604.2	4140.1	2712.1	1024.1	234.3	164.0	156.2	136.1	129.4	128.3	129.4
52.5°	4776.0	4276.2	2705.4	824.5	157.3	158.4	142.8	125.0	117.1	119.4	120.5
55°	4912.1	4362.1	2646.3	603.6	147.3	148.4	132.8	112.7	107.1	108.2	108.2
57.5°	4998.0	4383.3	2525.8	392.7	143.9	132.8	119.4	100.4	93.7	93.7	93.7
60°	5025.9	4372.2	2361.8	251.0	142.8	119.4	108.2	90.4	83.7	83.7	83.7
62.5°	5002.5	4307.5	2084.0	180.7	132.8	111.6	98.2	80.3	73.6	71.4	71.4
65°	4918.8	4134.5	1606.5	149.5	119.4	102.6	89.3	72.5	63.6	60.2	59.1
67.5°	4674.5	3759.7	934.9	140.6	108.2	93.7	82.6	65.8	55.8	50.2	49.1
68°	4610.9	3648.1	768.7	139.5	108.2	92.6	81.4	63.6	53.6	48.0	46.9
70°	4155.7	2943.0	220.9	132.8	106.0	89.3	74.7	58.0	48.0	41.3	40.2
72.5°	3129.3	1724.8	138.3	118.3	104.9	79.2	72.5	58.0	42.4	35.7	33.5
75°	1747.1	392.7	117.1	88.1	98.2	78.1	71.4	52.4	37.9	29.0	27.9
77.5°	359.2	113.8	100.4	61.4	74.7	68.1	60.2	44.6	34.6	22.3	21.2
80°	101.5	84.8	89.3	44.6	42.4	48.0	44.6	39.0	25.7	16.7	16.7
82.5°	65.8	62.5	80.3	30.1	22.3	22.3	29.0	23.4	22.3	13.4	13.4
85°	40.2	52.4	39.0	13.4	11.2	8.9	10.0	10.0	13.4	8.9	8.9
87.5°	5.6	5.6	5.6	5.6	5.6	4.5	3.3	3.3	3.3	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)