

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: P233668

Luminaire Tested: **VERD-C028-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233668
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-C028-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 930mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7455 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

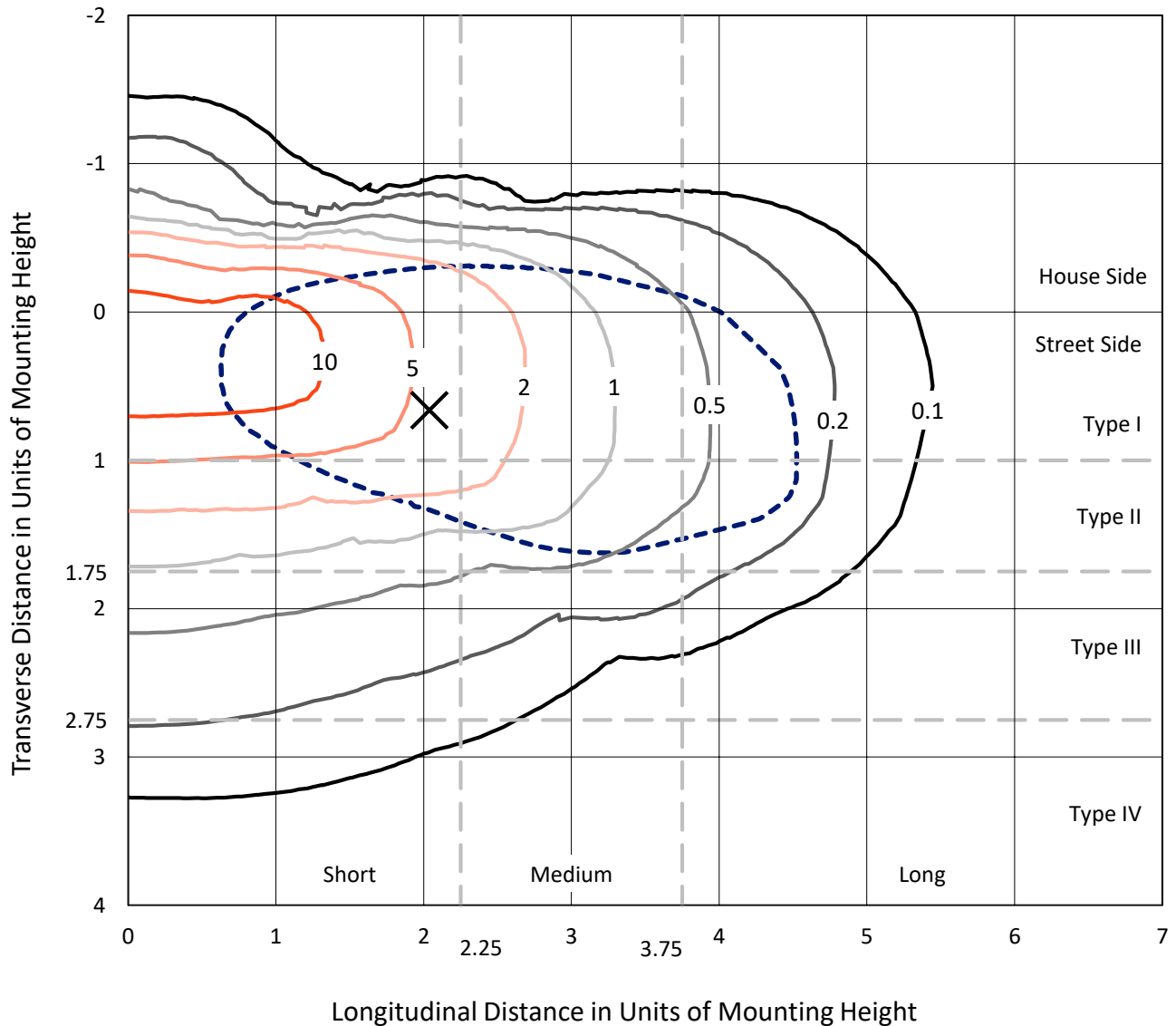
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

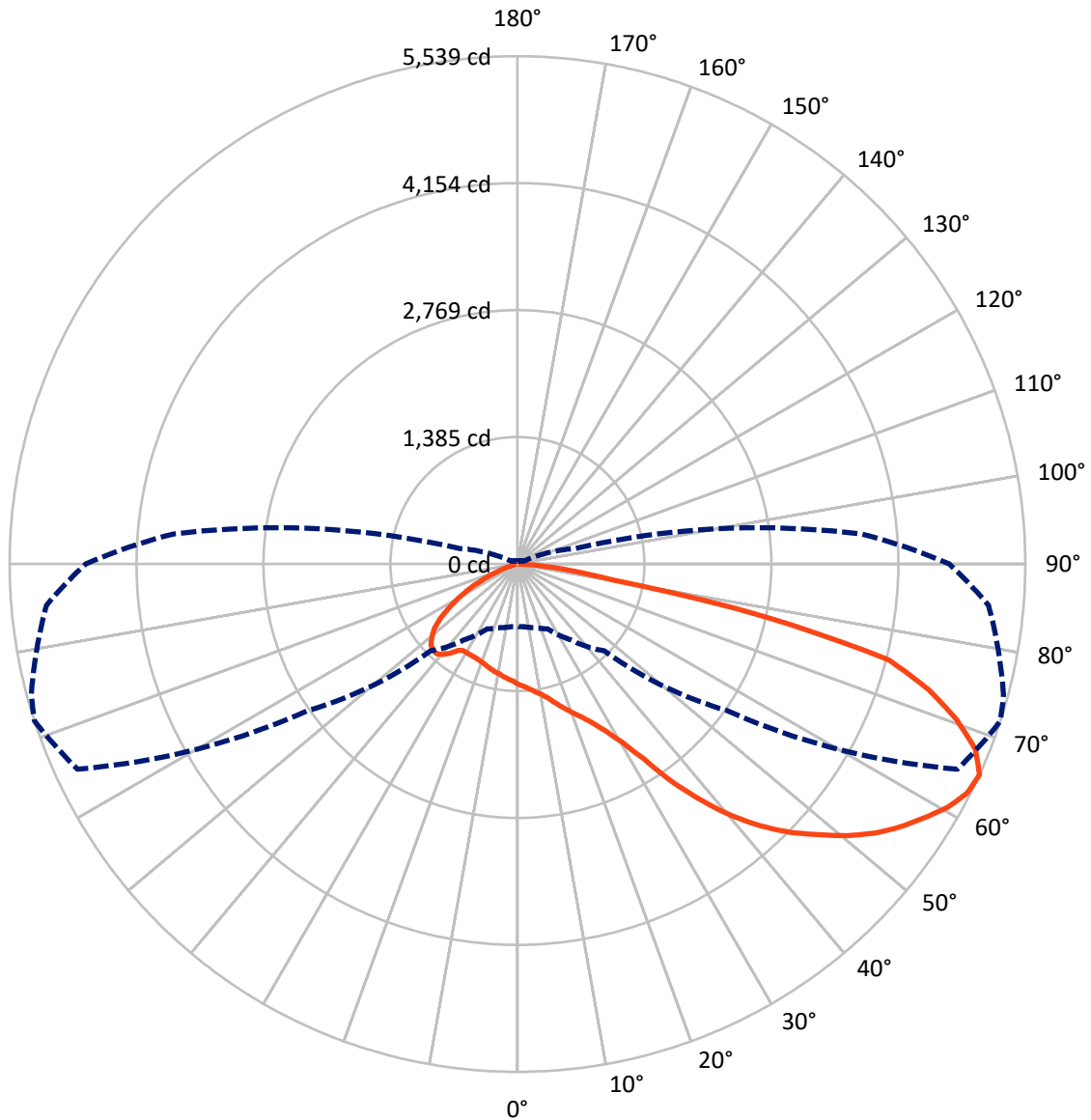
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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	1549.2	0.0	1549.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5905.8	0.0	5905.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	7455.0	0.0	7455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.7
10°-20°	382.3	5.1
20°-30°	638.8	8.6
30°-40°	944.9	12.7
40°-50°	1306.3	17.5
50°-60°	1528.5	20.5
60°-70°	1519.3	20.4
70°-80°	910.0	12.2
80°-90°	99.0	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°	7455.0	100.0
0°-180°	7455.0	100.0



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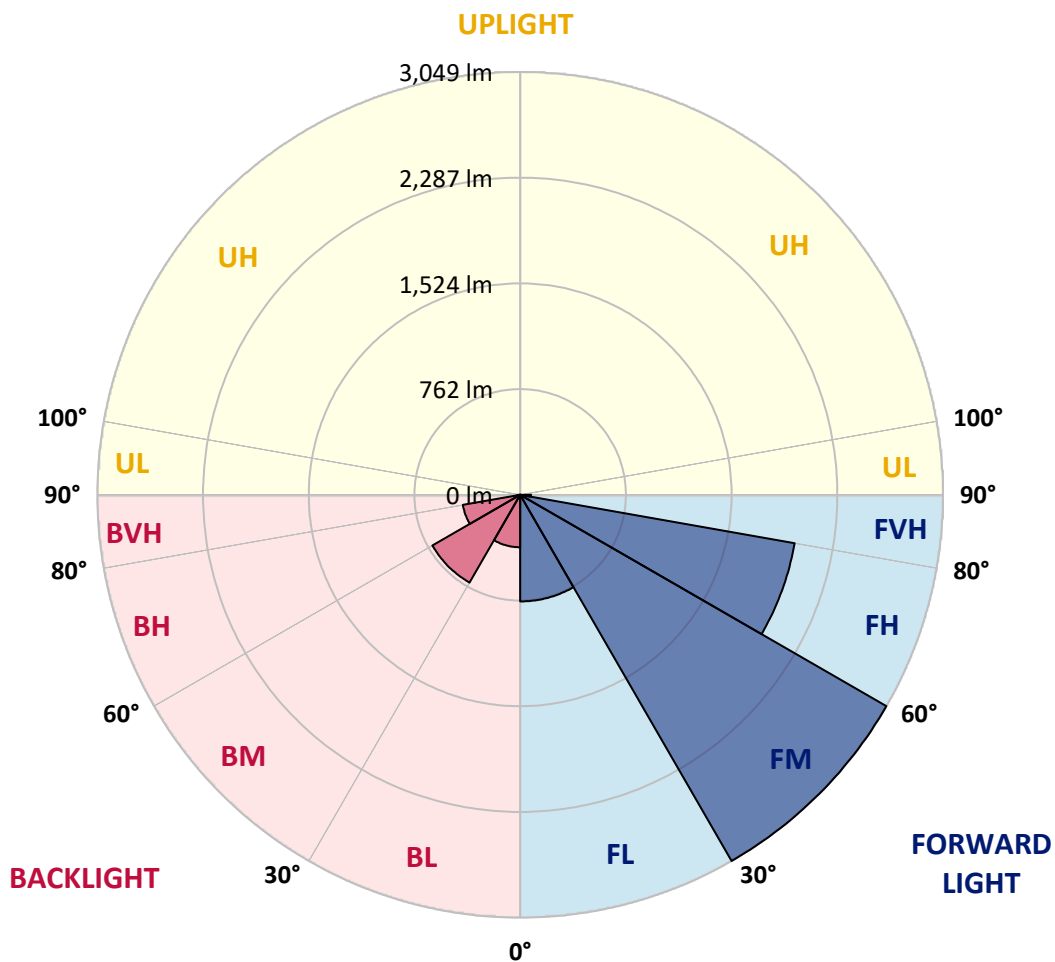
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.8	10.3			
FM	(30°-60°)	3048.9	40.9			
FH	(60°-80°)	2009.9	27.0			G2/5000
FVH	(80°-90°)	78.3	1.1			G1/100
BL	(0°-30°)	378.2	5.1	B1/500		
BM	(30°-60°)	730.8	9.8	B1/1000		
BH	(60°-80°)	419.4	5.6	B1/500		G1/500
BVH	(80°-90°)	20.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9
2.5°	1424.6	1425.8	1426.4	1403.9	1391.7	1377.7	1364.4	1349.8	1334.6	1329.1	1309.0
5°	1512.2	1513.4	1509.7	1489.1	1466.6	1445.9	1420.3	1394.2	1368.6	1361.3	1327.3
7.5°	1596.7	1596.1	1593.1	1566.9	1538.9	1511.6	1475.7	1440.4	1406.9	1395.4	1344.9
10°	1666.7	1667.9	1669.7	1641.7	1614.4	1581.5	1537.7	1485.4	1447.1	1428.8	1363.1
12.5°	1743.3	1739.7	1744.5	1717.2	1679.4	1649.6	1610.1	1548.7	1503.0	1479.9	1398.4
15°	1830.9	1830.9	1824.2	1801.7	1763.4	1726.9	1687.4	1630.8	1576.0	1540.8	1445.9
17.5°	1891.1	1887.5	1885.7	1866.2	1833.3	1801.7	1771.3	1713.5	1653.9	1610.7	1490.3
20°	1916.7	1917.9	1926.4	1912.4	1894.8	1875.9	1842.5	1797.5	1731.8	1685.5	1537.7
22.5°	1965.9	1967.2	1977.5	1967.8	1962.9	1958.0	1927.0	1887.5	1817.5	1773.1	1597.3
25°	1969.0	1970.2	1998.2	2014.0	2038.9	2050.5	2029.2	1995.1	1924.0	1880.8	1686.1
27.5°	1978.1	1981.8	2010.3	2054.1	2119.8	2143.0	2130.8	2129.6	2069.4	2023.7	1801.7
30°	1970.2	1973.9	2015.2	2076.0	2167.3	2235.4	2249.4	2285.3	2261.0	2226.9	1962.3
32.5°	1914.2	1927.6	1976.9	2073.6	2208.0	2331.5	2376.5	2499.4	2535.9	2539.5	2284.7
35°	1812.7	1820.0	1909.4	2045.6	2235.4	2422.1	2546.2	2773.1	2927.6	2920.9	2641.7
37.5°	1735.4	1737.8	1829.7	1998.2	2250.6	2519.5	2739.7	3102.8	3280.4	3288.3	2964.1
40°	1636.3	1653.9	1742.1	1941.0	2242.1	2601.6	2931.9	3410.0	3616.8	3608.3	3247.0
42.5°	1543.8	1554.1	1641.7	1851.6	2211.1	2664.2	3120.4	3707.4	3910.6	3882.6	3518.3
45°	1447.7	1465.3	1545.6	1736.0	2149.6	2699.5	3291.4	3989.7	4175.8	4141.1	3757.3
47.5°	1351.6	1364.4	1449.5	1630.2	2034.1	2698.3	3459.3	4254.3	4411.2	4386.9	3983.6
50°	1028.6	1056.6	1280.4	1519.5	1871.7	2647.2	3594.9	4505.5	4658.2	4620.5	4204.4
52.5°	942.8	951.9	1014.6	1391.1	1698.3	2525.6	3700.7	4741.5	4875.9	4832.7	4412.4
55°	891.1	902.1	927.6	1130.8	1556.0	2325.4	3744.5	4961.7	5062.1	5018.3	4597.9
57.5°	822.4	833.3	883.8	973.8	1407.5	2020.7	3680.1	5157.0	5226.9	5178.9	4770.1
60°	774.9	779.8	828.5	899.0	1245.1	1712.9	3464.7	5315.7	5388.7	5331.5	4940.4
62.5°	731.1	736.6	771.3	841.2	1110.7	1487.2	3129.6	5354.6	5503.7	5459.3	5096.1
65°	680.7	685.5	717.2	779.2	1006.7	1340.0	2784.1	5295.0	5538.9	5488.5	5156.3
67.5°	613.7	620.4	645.4	701.3	870.4	1173.4	2270.1	5184.9	5384.4	5332.1	5032.9
70°	531.0	534.1	563.9	614.4	735.4	1018.3	1780.4	4793.2	5078.5	5020.7	4684.9
72.5°	428.8	434.3	466.5	519.5	604.0	838.8	1271.9	4141.7	4691.0	4669.1	4178.2
75°	286.5	307.8	384.4	438.0	499.4	655.1	854.0	2906.9	4188.0	4205.0	3569.4
77.5°	54.7	56.6	161.2	239.7	292.0	400.2	528.6	1428.2	2760.4	3059.0	2691.6
80°	35.9	38.9	68.7	167.9	193.4	198.3	271.3	625.9	1040.1	1315.7	1552.3
82.5°	18.9	22.5	41.4	97.3	88.8	49.3	88.8	323.0	576.6	662.4	782.8
85°	7.9	9.1	20.1	33.5	24.9	20.7	20.7	129.0	255.5	295.6	307.2
87.5°	1.2	1.2	4.3	6.1	3.6	2.4	1.8	0.6	0.6	0.6	0.6
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°	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9	1313.9
2.5°	1309.0	1298.1	1282.9	1265.2	1252.4	1245.7	1240.3	1225.7	1220.8	1230.5	1228.1
5°	1314.5	1301.7	1267.0	1238.4	1209.9	1192.2	1172.8	1147.2	1136.3	1142.3	1140.5
7.5°	1318.1	1302.3	1250.6	1206.2	1158.2	1124.7	1099.2	1065.7	1049.3	1055.4	1048.1
10°	1323.6	1299.9	1231.1	1172.1	1109.5	1060.8	1023.1	984.2	967.2	972.0	965.9
12.5°	1346.7	1308.4	1222.0	1142.9	1066.3	1005.5	958.0	916.7	892.3	897.2	892.3
15°	1384.4	1325.4	1208.6	1105.8	1020.7	951.3	896.6	849.2	821.2	827.9	821.8
17.5°	1424.0	1346.1	1196.5	1064.5	972.0	894.8	837.6	797.4	752.4	756.7	747.6
20°	1458.0	1365.6	1189.8	1025.6	926.4	834.6	765.8	738.4	676.4	660.6	650.2
22.5°	1505.5	1394.2	1184.3	993.9	869.8	774.3	692.8	641.7	574.8	541.4	538.3
25°	1573.0	1436.7	1183.7	969.0	818.7	711.1	597.3	511.6	452.6	413.0	407.5
27.5°	1658.8	1493.3	1190.4	944.0	767.6	631.4	479.9	385.0	332.1	301.7	296.2
30°	1782.2	1567.5	1198.9	915.5	710.5	528.0	357.7	283.5	239.7	217.8	213.5
32.5°	2046.8	1757.9	1211.7	885.6	641.7	397.8	259.7	205.6	172.1	158.8	165.5
35°	2365.6	2016.4	1268.9	847.3	551.7	283.5	187.3	146.6	123.5	126.5	130.2
37.5°	2644.2	2263.4	1397.2	798.1	431.3	208.0	129.0	109.5	109.5	119.2	127.7
40°	2906.9	2486.0	1512.2	731.1	302.3	143.6	99.8	101.6	99.8	105.8	104.0
42.5°	3155.1	2697.1	1602.2	651.5	197.7	99.1	90.6	94.3	91.2	92.5	87.0
45°	3389.9	2915.5	1652.1	534.1	131.4	86.4	83.3	89.4	88.8	87.6	82.1
47.5°	3607.1	3107.7	1677.0	385.0	90.6	77.9	78.5	82.7	84.6	83.3	80.3
50°	3820.0	3299.3	1654.5	230.5	81.5	71.2	75.4	75.4	79.1	72.4	70.0
52.5°	4023.7	3491.5	1583.3	139.9	74.8	66.3	70.0	68.7	70.6	63.9	62.7
55°	4215.3	3634.4	1442.8	110.1	70.6	63.3	63.9	65.1	62.0	54.7	57.2
57.5°	4417.9	3756.1	1247.0	99.8	68.7	59.0	60.2	59.6	54.7	48.1	48.1
60°	4584.6	3844.3	1050.5	90.6	67.5	57.8	53.5	52.3	45.0	41.4	40.8
62.5°	4699.5	3869.2	858.9	80.9	63.9	53.5	48.1	44.4	37.7	34.1	32.8
65°	4708.7	3762.8	653.9	73.0	60.2	49.9	44.4	36.5	29.8	26.8	25.5
67.5°	4521.9	3467.2	461.1	66.9	54.1	46.2	38.9	29.2	23.7	21.3	20.7
70°	4131.4	3099.8	282.2	58.4	49.3	43.2	40.1	23.7	19.5	16.4	16.4
72.5°	3625.3	2684.9	165.5	49.9	41.4	34.7	26.8	20.1	16.4	12.8	12.8
75°	3107.1	2131.4	101.6	37.7	30.4	27.4	20.7	17.0	13.4	9.7	9.7
77.5°	2237.2	1573.6	79.1	24.3	18.9	19.5	15.2	13.4	10.9	7.9	7.9
80°	1372.9	958.0	56.6	16.4	10.9	10.9	10.9	10.3	7.9	6.7	6.1
82.5°	695.9	438.0	28.0	9.7	6.7	6.7	6.7	7.3	6.1	4.9	4.9
85°	244.5	122.9	8.5	4.9	4.3	4.3	3.6	3.6	3.0	2.4	2.4
87.5°	0.6	1.2	1.2	1.8	2.4	2.4	1.8	1.2	0.6	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)