

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: P233667

Luminaire Tested: **VERD-C026-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233667
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-C026-D-U-T2-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 790mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6453 lumens
Efficiency: N/A
Efficacy: 104.1 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 - G1

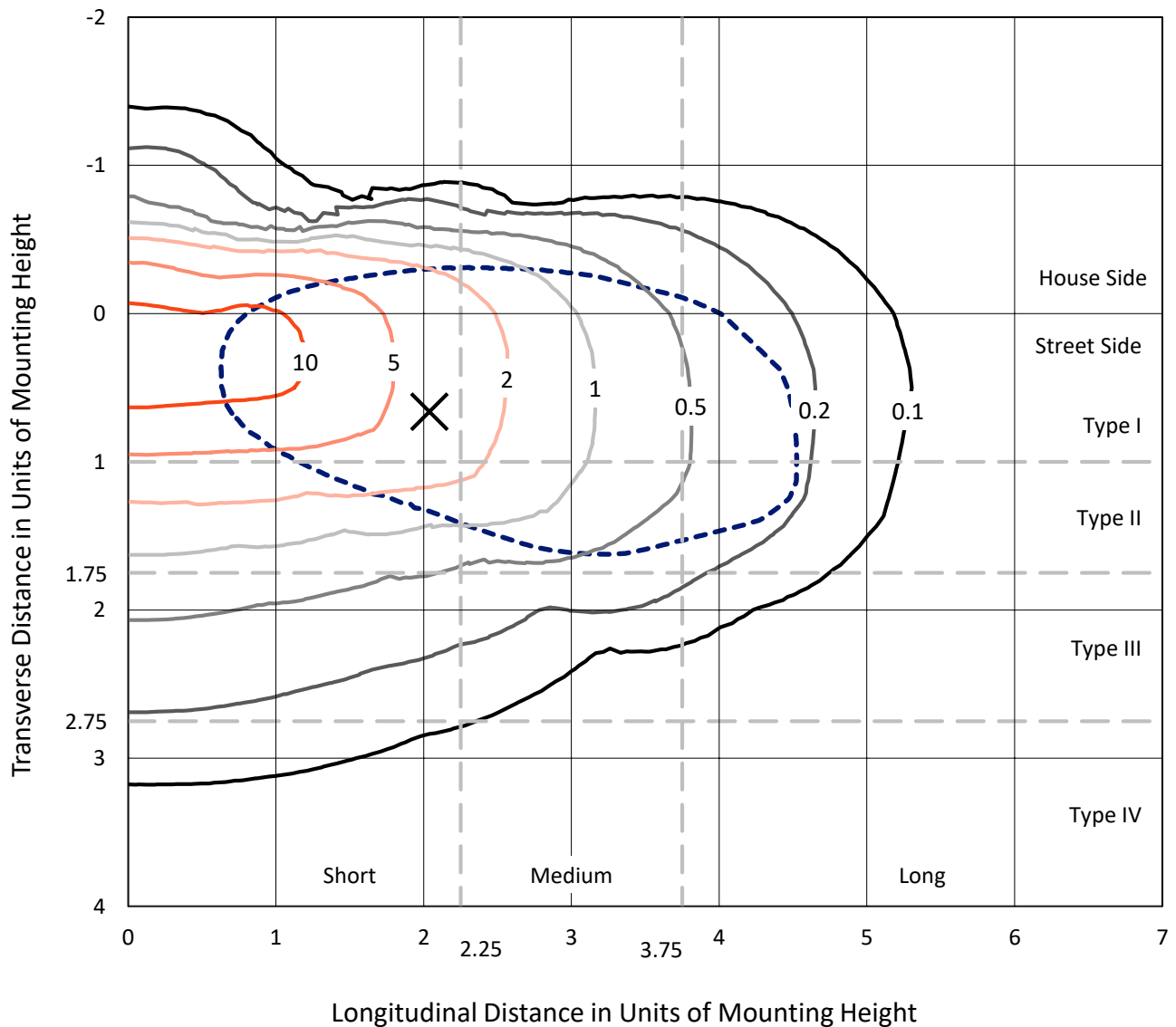
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

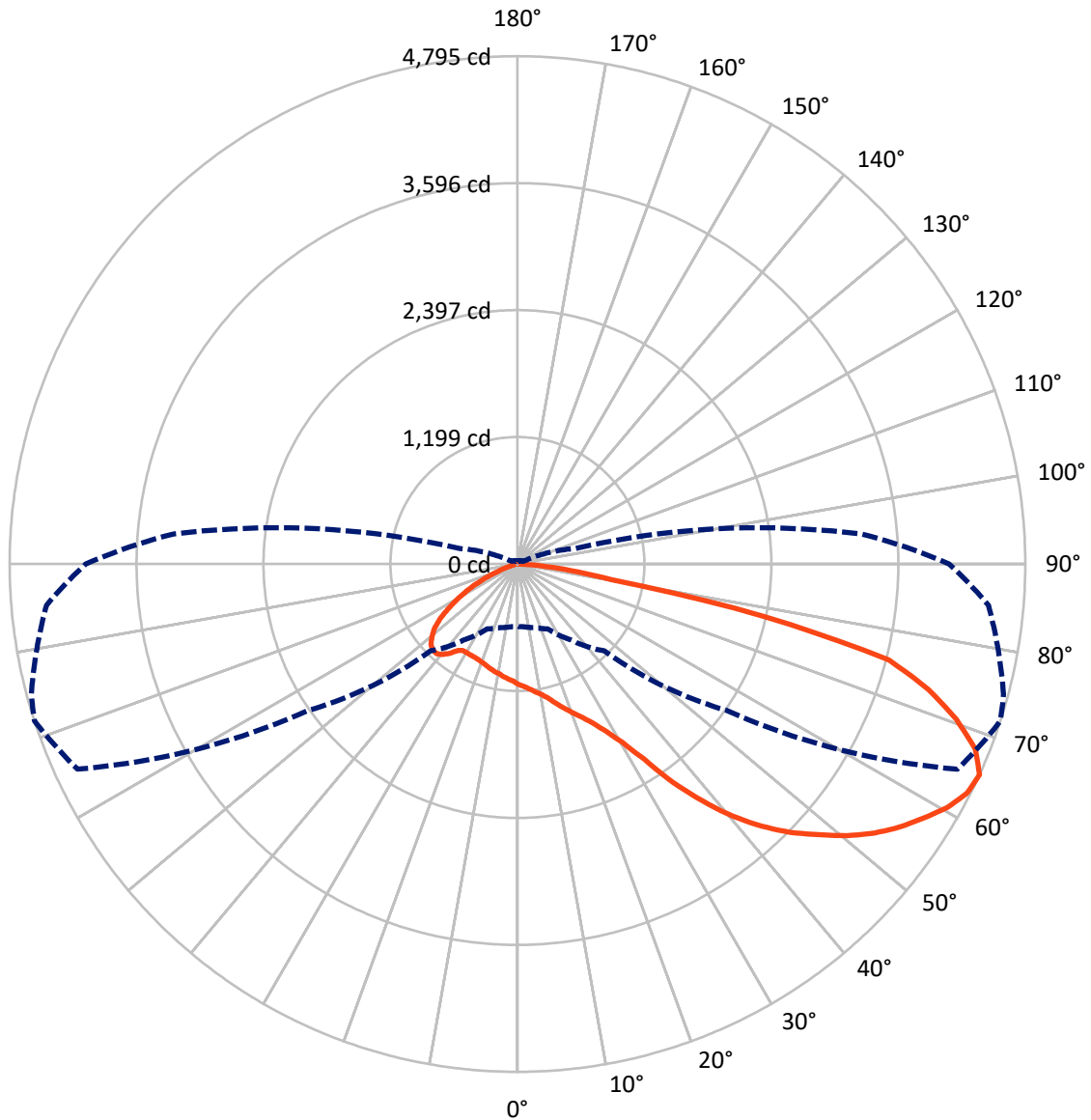
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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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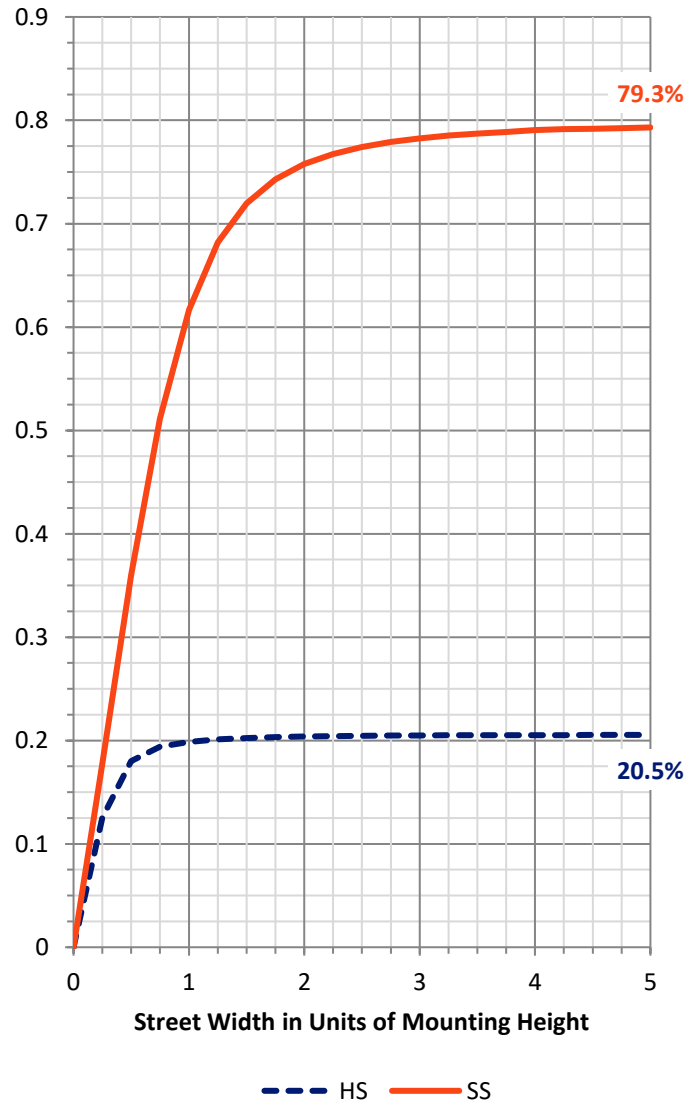
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.0	0.0	1341.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5112.0	0.0	5112.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	6453.0	0.0	6453.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.7
10°-20°	330.9	5.1
20°-30°	552.9	8.6
30°-40°	817.9	12.7
40°-50°	1130.7	17.5
50°-60°	1323.1	20.5
60°-70°	1315.1	20.4
70°-80°	787.7	12.2
80°-90°	85.7	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°	6453.0	100.0
0°-180°	6453.0	100.0



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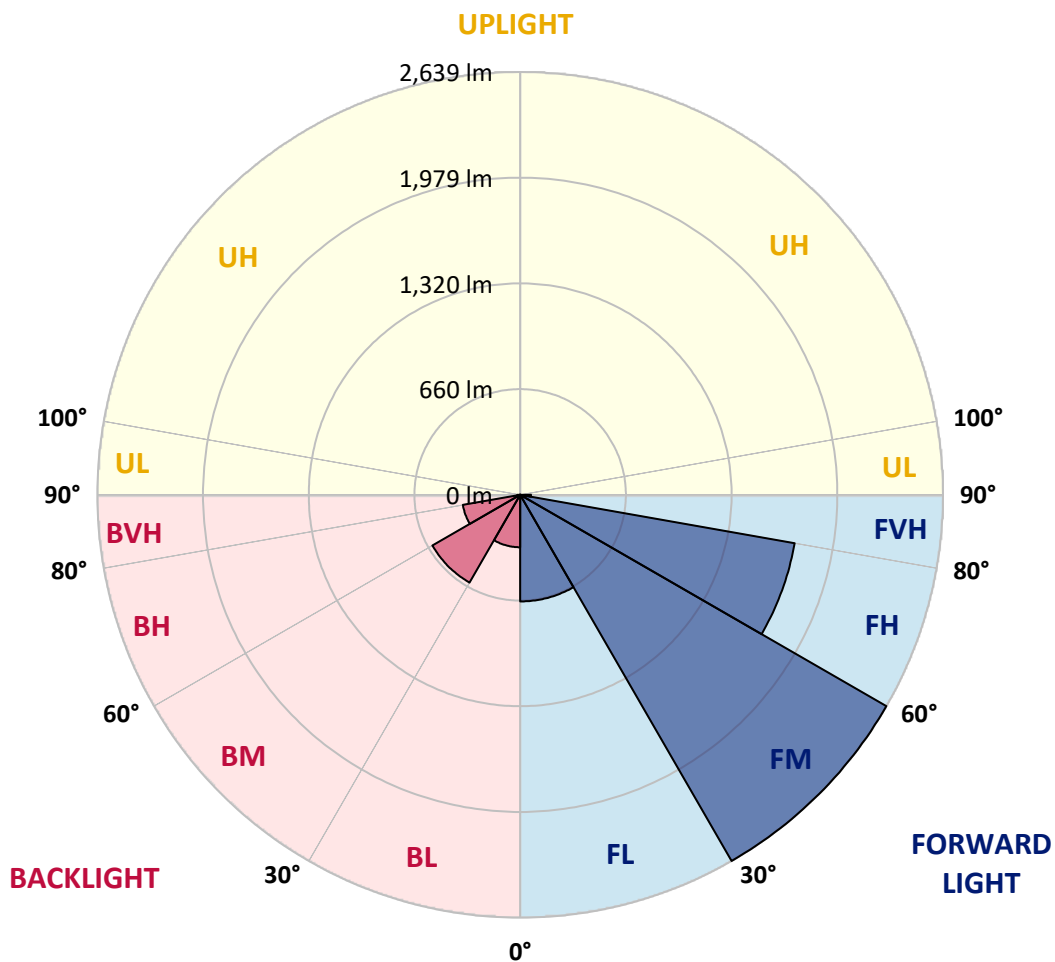
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	665.4	10.3			
FM	(30°-60°)	2639.1	40.9			
FH	(60°-80°)	1739.7	27.0			G1/1800
FVH	(80°-90°)	67.8	1.1			G1/100
BL	(0°-30°)	327.4	5.1	B1/500		
BM	(30°-60°)	632.6	9.8	B1/1000		
BH	(60°-80°)	363.1	5.6	B1/500		G1/500
BVH	(80°-90°)	18.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3
2.5°	1233.1	1234.2	1234.7	1215.2	1204.7	1192.6	1181.0	1168.3	1155.2	1150.4	1133.1
5°	1308.9	1310.0	1306.8	1288.9	1269.4	1251.5	1229.4	1206.8	1184.7	1178.3	1148.9
7.5°	1382.1	1381.6	1379.0	1356.3	1332.1	1308.4	1277.3	1246.8	1217.8	1207.8	1164.1
10°	1442.7	1443.7	1445.3	1421.1	1397.4	1368.9	1331.0	1285.8	1252.6	1236.8	1179.9
12.5°	1509.0	1505.8	1510.1	1486.4	1453.7	1427.9	1393.7	1340.5	1301.0	1281.0	1210.5
15°	1584.8	1584.8	1579.0	1559.5	1526.4	1494.8	1460.6	1411.6	1364.2	1333.7	1251.5
17.5°	1636.9	1633.8	1632.2	1615.4	1586.9	1559.5	1533.2	1483.2	1431.6	1394.2	1290.0
20°	1659.1	1660.1	1667.5	1655.4	1640.1	1623.8	1594.8	1555.9	1499.0	1459.0	1331.0
22.5°	1701.7	1702.8	1711.7	1703.3	1699.1	1694.9	1668.0	1633.8	1573.2	1534.8	1382.6
25°	1704.3	1705.4	1729.6	1743.3	1764.9	1774.9	1756.5	1727.0	1665.4	1628.0	1459.5
27.5°	1712.2	1715.4	1740.1	1778.1	1834.9	1854.9	1844.4	1843.3	1791.2	1751.7	1559.5
30°	1705.4	1708.6	1744.4	1797.0	1876.0	1935.0	1947.1	1978.1	1957.1	1927.6	1698.5
32.5°	1657.0	1668.5	1711.2	1794.9	1911.3	2018.1	2057.1	2163.5	2195.1	2198.2	1977.6
35°	1569.0	1575.3	1652.7	1770.7	1935.0	2096.6	2204.0	2400.4	2534.1	2528.3	2286.7
37.5°	1502.2	1504.3	1583.8	1729.6	1948.1	2180.8	2371.4	2685.8	2839.5	2846.4	2565.7
40°	1416.3	1431.6	1507.9	1680.1	1940.7	2251.9	2537.8	2951.7	3130.7	3123.3	2810.6
42.5°	1336.3	1345.3	1421.1	1602.7	1913.9	2306.2	2701.0	3209.1	3385.0	3360.8	3045.4
45°	1253.1	1268.4	1337.9	1502.7	1860.7	2336.7	2849.0	3453.4	3614.6	3584.5	3252.3
47.5°	1169.9	1181.0	1254.7	1411.1	1760.7	2335.6	2994.3	3682.5	3818.3	3797.3	3448.2
50°	890.3	914.6	1108.3	1315.2	1620.1	2291.4	3111.7	3899.9	4032.1	3999.4	3639.3
52.5°	816.1	824.0	878.2	1204.1	1470.0	2186.1	3203.3	4104.2	4220.6	4183.2	3819.4
55°	771.3	780.8	802.9	978.8	1346.8	2012.9	3241.2	4294.8	4381.7	4343.8	3980.0
57.5°	711.9	721.3	765.0	843.0	1218.4	1749.1	3185.4	4463.8	4524.4	4482.8	4129.0
60°	670.8	675.0	717.1	778.2	1077.8	1482.7	2999.1	4601.2	4664.4	4614.9	4276.4
62.5°	632.9	637.6	667.6	728.2	961.4	1287.3	2708.9	4634.9	4763.9	4725.5	4411.2
65°	589.2	593.4	620.8	674.5	871.4	1159.9	2409.9	4583.3	4794.5	4750.8	4463.3
67.5°	531.3	537.0	558.6	607.1	753.4	1015.7	1965.0	4488.0	4660.7	4615.5	4356.4
70°	459.7	462.3	488.1	531.8	636.6	881.4	1541.1	4149.0	4395.9	4345.9	4055.2
72.5°	371.2	375.9	403.8	449.6	522.8	726.1	1101.0	3585.1	4060.5	4041.6	3616.7
75°	248.0	266.4	332.8	379.1	432.3	567.1	739.2	2516.2	3625.1	3639.8	3089.6
77.5°	47.4	49.0	139.5	207.4	252.7	346.4	457.5	1236.3	2389.3	2647.9	2329.8
80°	31.1	33.7	59.5	145.3	167.4	171.6	234.8	541.8	900.3	1138.9	1343.7
82.5°	16.3	19.5	35.8	84.2	76.9	42.6	76.9	279.6	499.1	573.4	677.6
85°	6.8	7.9	17.4	29.0	21.6	17.9	17.9	111.6	221.1	255.9	265.9
87.5°	1.1	1.1	3.7	5.3	3.2	2.1	1.6	0.5	0.5	0.5	0.5
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°	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3	1137.3
2.5°	1133.1	1123.6	1110.4	1095.2	1084.1	1078.3	1073.6	1060.9	1056.7	1065.1	1063.0
5°	1137.8	1126.7	1096.7	1072.0	1047.2	1032.0	1015.1	993.0	983.5	988.8	987.2
7.5°	1141.0	1127.3	1082.5	1044.1	1002.5	973.5	951.4	922.5	908.2	913.5	907.2
10°	1145.7	1125.2	1065.7	1014.6	960.4	918.2	885.6	851.9	837.2	841.4	836.1
12.5°	1165.7	1132.5	1057.8	989.3	923.0	870.3	829.3	793.5	772.4	776.6	772.4
15°	1198.4	1147.3	1046.2	957.2	883.5	823.5	776.1	735.0	710.8	716.6	711.3
17.5°	1232.6	1165.2	1035.7	921.4	841.4	774.5	725.0	690.3	651.3	655.0	647.1
20°	1262.1	1182.0	1029.9	887.7	801.9	722.4	662.9	639.2	585.5	571.8	562.8
22.5°	1303.1	1206.8	1025.1	860.3	752.9	670.3	599.7	555.5	497.6	468.6	466.0
25°	1361.6	1243.6	1024.6	838.7	708.7	615.5	517.0	442.8	391.7	357.5	352.8
27.5°	1435.8	1292.6	1030.4	817.2	664.5	546.5	415.4	333.3	287.5	261.2	256.4
30°	1542.7	1356.8	1037.8	792.4	615.0	457.0	309.6	245.4	207.4	188.5	184.8
32.5°	1771.7	1521.6	1048.8	766.6	555.5	344.3	224.8	178.0	149.0	137.4	143.2
35°	2047.6	1745.4	1098.3	733.4	477.6	245.4	162.2	126.9	106.9	109.5	112.7
37.5°	2288.8	1959.2	1209.4	690.8	373.3	180.1	111.6	94.8	94.8	103.2	110.6
40°	2516.2	2151.9	1308.9	632.9	261.7	124.3	86.3	87.9	86.3	91.6	90.0
42.5°	2731.1	2334.6	1386.9	563.9	171.1	85.8	78.5	81.6	79.0	80.0	75.3
45°	2934.3	2523.6	1430.0	462.3	113.7	74.8	72.1	77.4	76.9	75.8	71.1
47.5°	3122.3	2690.0	1451.6	333.3	78.5	67.4	67.9	71.6	73.2	72.1	69.5
50°	3306.5	2855.8	1432.1	199.6	70.6	61.6	65.3	65.3	68.4	62.7	60.5
52.5°	3482.9	3022.2	1370.5	121.1	64.8	57.4	60.5	59.5	61.1	55.3	54.2
55°	3648.8	3145.9	1248.9	95.3	61.1	54.8	55.3	56.3	53.7	47.4	49.5
57.5°	3824.1	3251.3	1079.4	86.3	59.5	51.1	52.1	51.6	47.4	41.6	41.6
60°	3968.4	3327.6	909.3	78.5	58.4	50.0	46.3	45.3	39.0	35.8	35.3
62.5°	4067.9	3349.2	743.4	70.0	55.3	46.3	41.6	38.4	32.6	29.5	28.4
65°	4075.8	3257.0	566.0	63.2	52.1	43.2	38.4	31.6	25.8	23.2	22.1
67.5°	3914.1	3001.2	399.1	57.9	46.9	40.0	33.7	25.3	20.5	18.4	17.9
70°	3576.1	2683.1	244.3	50.5	42.6	37.4	34.8	20.5	16.8	14.2	14.2
72.5°	3138.1	2324.1	143.2	43.2	35.8	30.0	23.2	17.4	14.2	11.1	11.1
75°	2689.5	1844.9	87.9	32.6	26.3	23.7	17.9	14.7	11.6	8.4	8.4
77.5°	1936.5	1362.1	68.4	21.1	16.3	16.8	13.2	11.6	9.5	6.8	6.8
80°	1188.4	829.3	49.0	14.2	9.5	9.5	9.5	9.0	6.8	5.8	5.3
82.5°	602.3	379.1	24.2	8.4	5.8	5.8	5.8	6.3	5.3	4.2	4.2
85°	211.7	106.4	7.4	4.2	3.7	3.7	3.2	3.2	2.6	2.1	2.1
87.5°	0.5	1.1	1.1	1.6	2.1	2.1	1.6	1.1	0.5	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)