

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: P509360

Luminaire Tested: **VERD-CA2-80-730-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-730-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10339 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

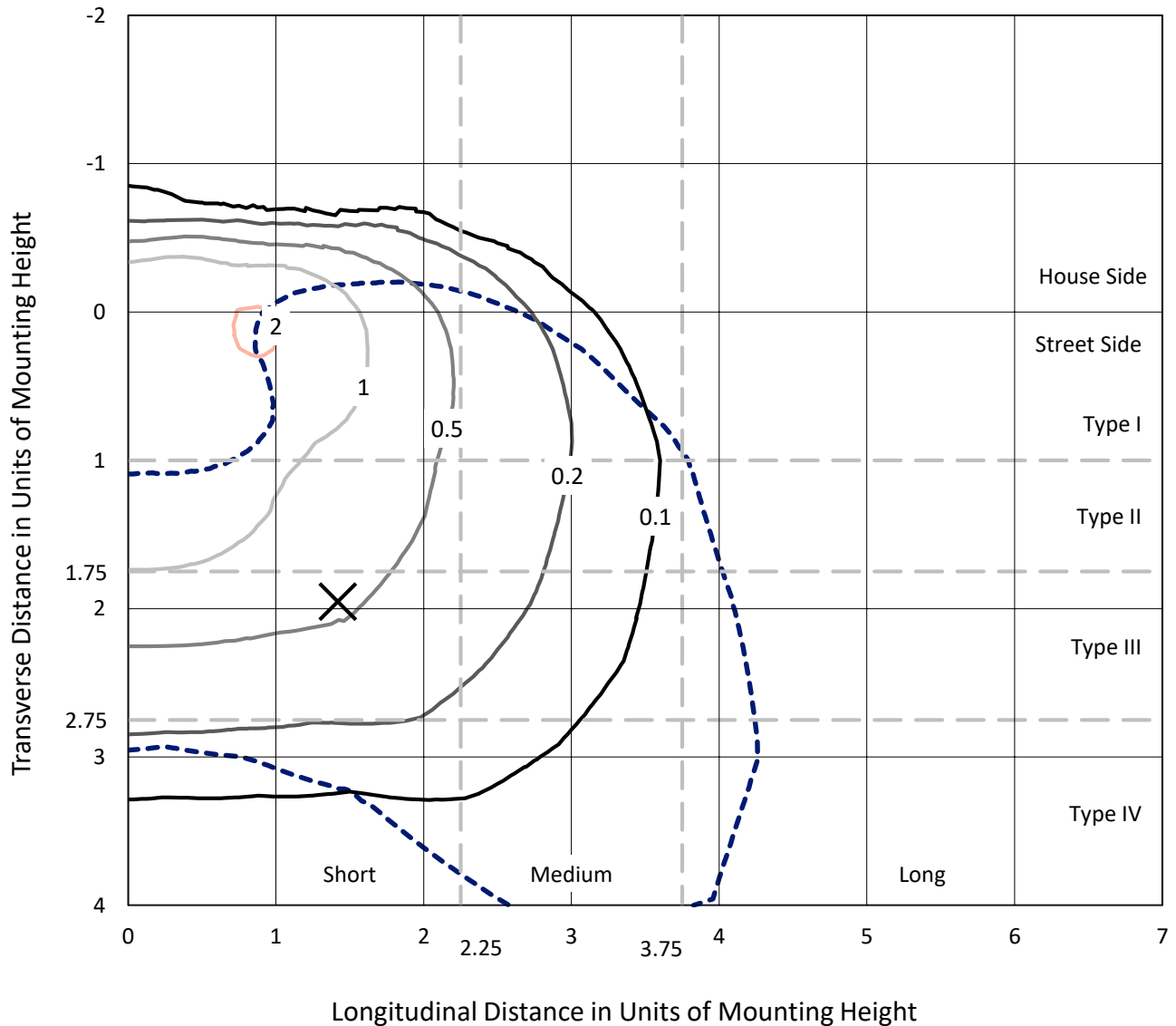
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

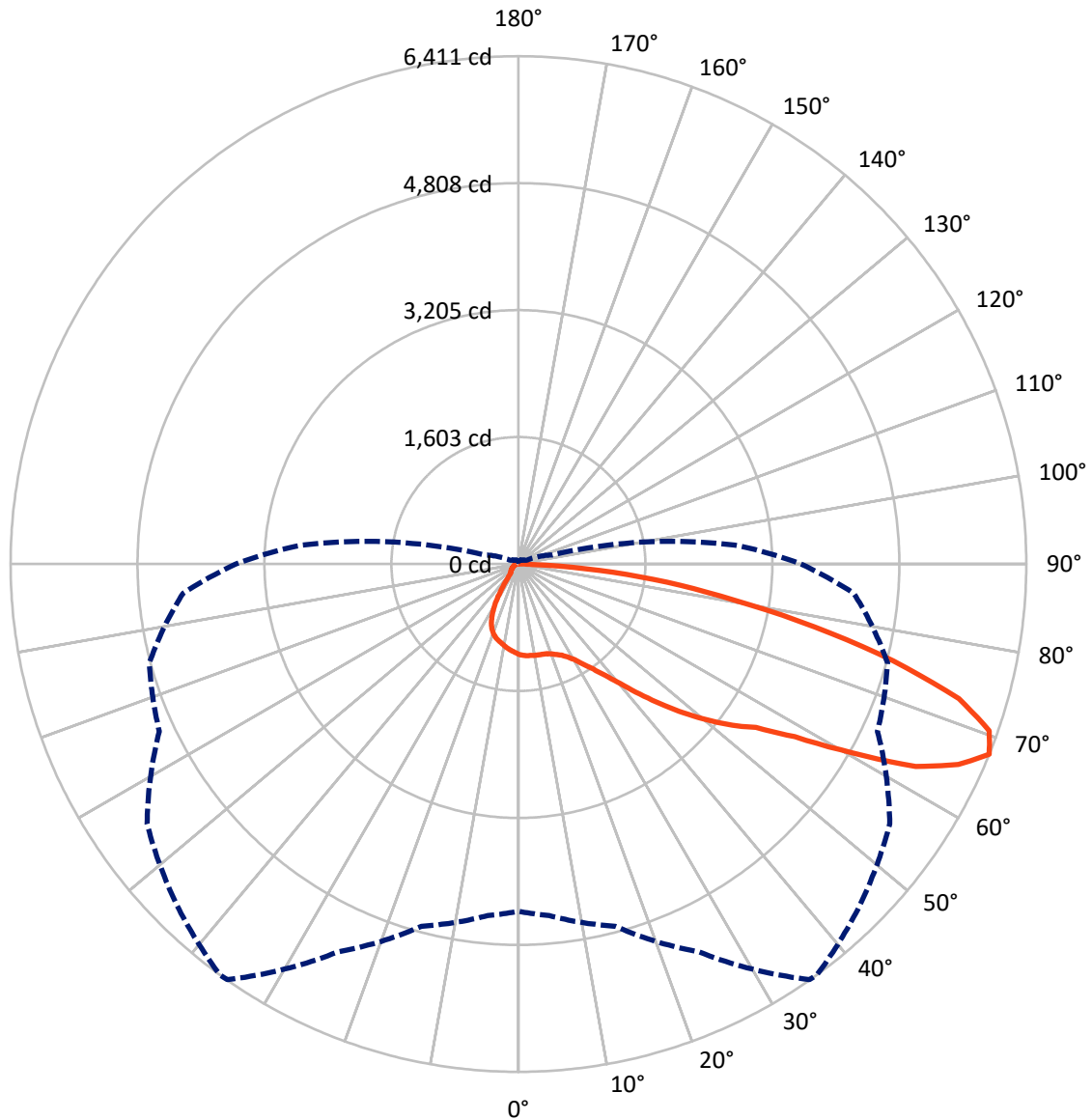
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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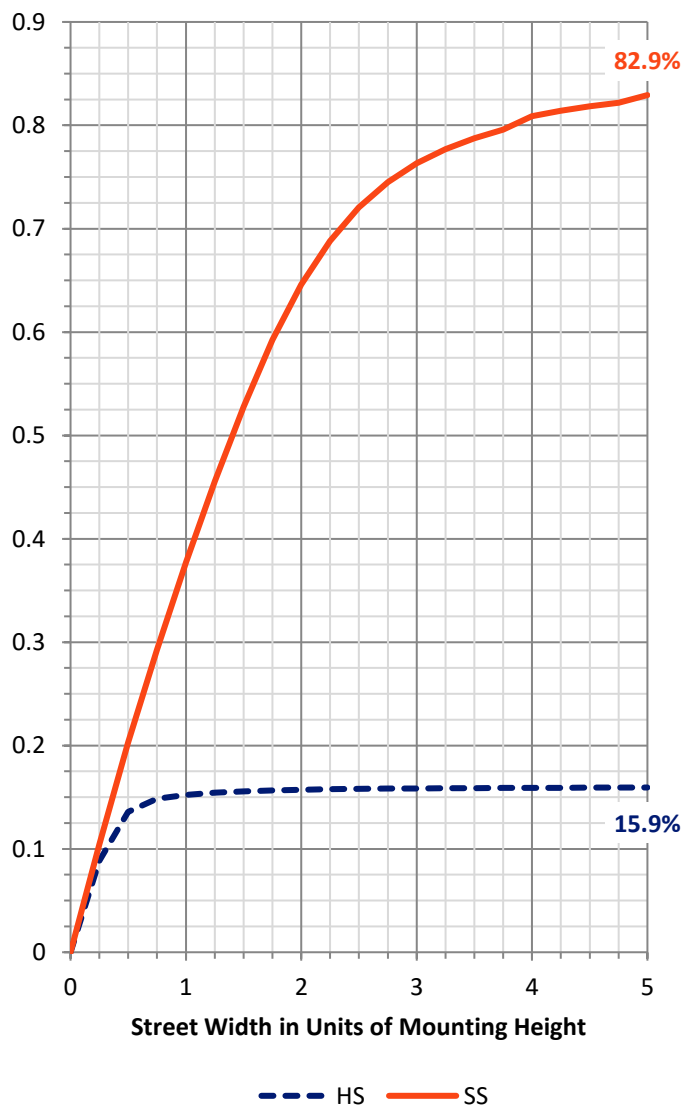
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.3	0.0	1667.3
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	8671.6	0.0	8671.6
	% Fixture	83.9	0.0	83.9
Total	Lumens	10339.0	0.0	10339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.0
10°-20°	319.5	3.1
20°-30°	528.4	5.1
30°-40°	838.1	8.1
40°-50°	1446.6	14.0
50°-60°	2144.2	20.7
60°-70°	2772.1	26.8
70°-80°	1871.3	18.1
80°-90°	311.0	3.0
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°	10339.0	100.0
0°-180°	10339.0	100.0

Coefficient of Utilization



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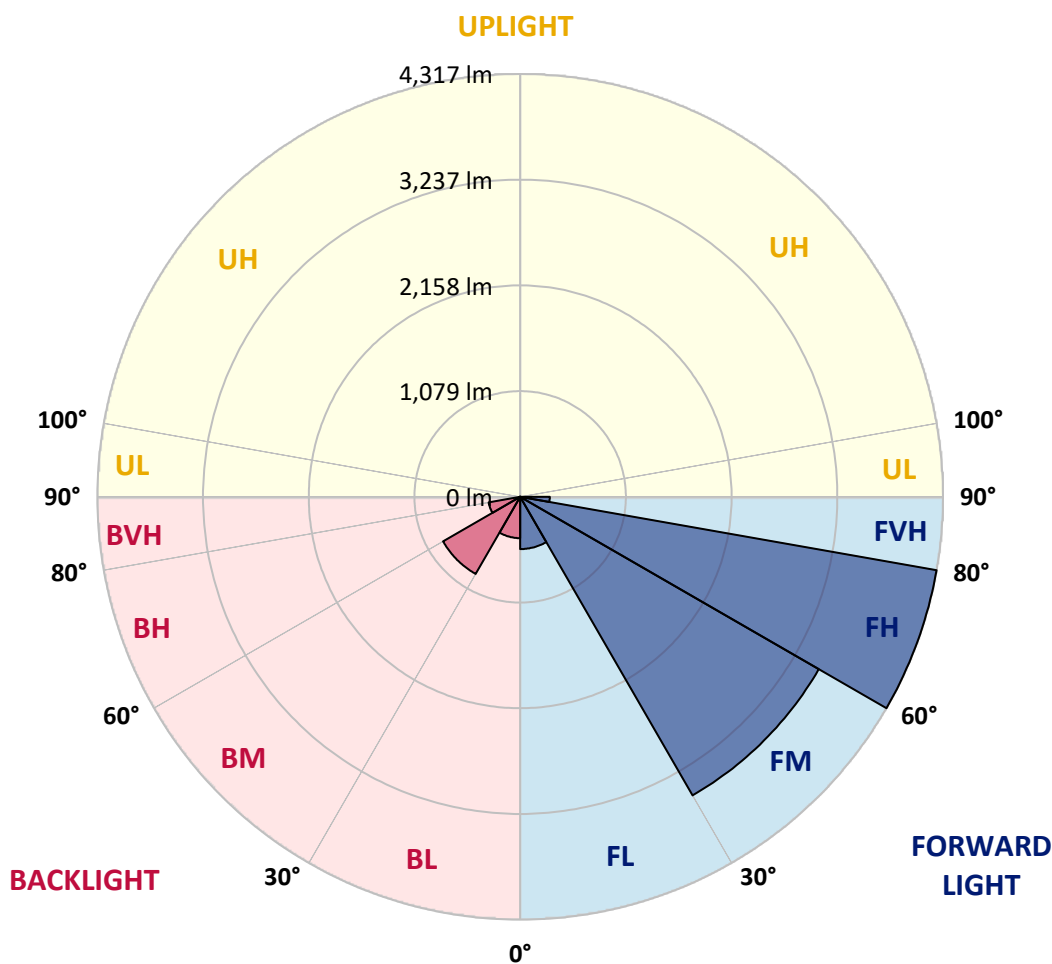
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	5.2			
FM (30°-60°)	3519.2	34.0			
FH (60°-80°)	4316.5	41.8			G2/5000
FVH (80°-90°)	302.2	2.9			G3/500
BL (0°-30°)	422.0	4.1	B1/500		
BM (30°-60°)	909.6	8.8	B1/1000		
BH (60°-80°)	326.9	3.2	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1147.6	1158.7	1157.5	1156.3	1156.3	1155.0	1147.6	1140.2	1143.9	1142.7	1141.4
5°	1152.5	1163.7	1162.4	1161.2	1161.2	1162.4	1151.3	1142.7	1145.1	1147.6	1146.4
7.5°	1155.0	1164.9	1162.4	1161.2	1160.0	1163.7	1155.0	1156.3	1158.7	1158.7	1158.7
10°	1158.7	1166.1	1166.1	1167.4	1168.6	1172.3	1168.6	1172.3	1182.2	1179.8	1185.9
12.5°	1148.8	1157.5	1161.2	1167.4	1173.6	1176.0	1179.8	1189.6	1202.0	1208.2	1214.4
15°	1145.1	1153.8	1160.0	1167.4	1177.3	1179.8	1189.6	1207.0	1221.8	1234.2	1247.8
17.5°	1157.5	1167.4	1176.0	1181.0	1185.9	1189.6	1199.5	1221.8	1247.8	1270.0	1289.8
20°	1181.0	1190.9	1200.8	1205.7	1209.4	1211.9	1219.3	1240.3	1273.7	1308.4	1336.8
22.5°	1208.2	1218.1	1229.2	1232.9	1241.6	1241.6	1242.8	1263.8	1304.7	1351.6	1386.3
25°	1237.9	1244.1	1253.9	1260.1	1272.5	1275.0	1278.7	1297.2	1347.9	1401.1	1455.5
27.5°	1272.5	1284.9	1294.8	1302.2	1326.9	1328.1	1325.7	1349.2	1398.6	1464.2	1540.8
30°	1335.6	1349.2	1359.1	1371.4	1403.6	1402.3	1418.4	1443.2	1471.6	1543.3	1646.0
32.5°	1435.7	1437.0	1441.9	1458.0	1503.7	1508.7	1539.6	1584.1	1641.0	1686.8	1795.6
35°	1618.8	1612.6	1597.7	1595.3	1626.2	1628.6	1689.2	1783.2	1906.9	2059.0	2227.2
37.5°	1832.7	1848.8	1831.5	1778.3	1783.2	1784.5	1856.2	1976.1	2206.2	2587.0	2746.6
40°	2208.6	2217.3	2109.7	2025.6	1995.9	1982.3	2019.4	2201.2	2495.5	2991.4	3104.0
42.5°	2540.1	2540.1	2439.9	2310.0	2234.6	2244.5	2233.4	2413.9	2792.3	3342.6	3383.4
45°	2871.5	2860.3	2768.8	2660.0	2527.7	2519.0	2490.6	2629.1	3065.6	3594.9	3596.1
47.5°	3180.6	3206.6	3069.3	2949.4	2814.6	2808.4	2757.7	2865.3	3327.8	3816.3	3782.9
50°	3505.9	3541.7	3369.8	3235.0	3089.1	3097.8	3055.7	3131.2	3588.7	4022.8	3962.2
52.5°	3968.4	3901.6	3696.3	3509.6	3358.7	3383.4	3340.2	3384.7	3859.5	4187.2	4061.1
55°	4464.3	4345.5	4174.9	3862.0	3643.1	3640.7	3608.5	3661.7	4132.8	4375.2	4173.6
57.5°	4730.1	4766.0	4726.4	4472.9	4119.2	4113.1	3920.1	3926.3	4383.9	4536.0	4330.7
60°	5033.1	5077.6	5164.2	5005.9	4829.1	4834.0	4353.0	4209.5	4648.5	4664.6	4343.1
62.5°	5193.9	5198.8	5397.9	5453.6	5597.0	5629.2	5264.4	4555.8	4824.1	4763.5	4364.1
65°	4909.4	4918.1	5301.5	5582.2	6060.8	6104.0	5947.0	5226.0	4955.2	4815.5	4344.3
67.5°	4383.9	4454.4	4733.8	5404.1	6404.5	6410.7	6094.1	5721.9	5001.0	4822.9	4249.1
70°	3674.0	3649.3	4003.0	4808.0	6351.4	6305.6	6029.8	5778.8	4967.6	4721.5	3815.0
72.5°	2724.3	2687.2	3052.0	3865.7	5729.3	5815.9	5741.7	5446.1	4841.4	4343.1	3096.5
75°	1864.8	1908.1	2235.8	2914.8	4758.6	4889.7	5217.4	5188.9	4307.2	3599.8	2119.6
77.5°	1276.2	1294.8	1575.5	2169.1	3771.7	3822.4	4365.3	4192.2	3167.0	2212.3	707.4
80°	831.0	824.8	1077.1	1544.6	2765.1	2758.9	3117.6	2652.6	1706.6	754.3	97.7
82.5°	463.7	490.9	645.5	1015.3	1868.6	1888.3	1946.5	1450.6	656.7	87.8	61.8
85°	260.9	272.1	371.0	575.0	979.4	1028.9	868.1	533.0	117.5	48.2	35.9
87.5°	61.8	59.4	118.7	220.1	163.2	176.8	84.1	24.7	12.4	8.7	8.7
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°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1141.4	1138.9	1136.5	1131.5	1127.8	1116.7	1117.9	1125.3	1117.9	1130.3	1122.9
5°	1143.9	1140.2	1134.0	1119.2	1108.0	1099.4	1096.9	1095.7	1085.8	1096.9	1091.9
7.5°	1153.8	1150.1	1136.5	1120.4	1104.3	1078.3	1074.6	1069.7	1051.1	1058.6	1052.4
10°	1177.3	1172.3	1148.8	1126.6	1101.8	1067.2	1047.4	1032.6	1011.6	1014.0	1007.9
12.5°	1207.0	1202.0	1174.8	1137.7	1103.1	1054.9	1020.2	991.8	960.9	960.9	954.7
15°	1241.6	1236.6	1205.7	1162.4	1108.0	1045.0	993.0	947.3	897.8	891.6	884.2
17.5°	1288.6	1281.2	1245.3	1189.6	1121.6	1036.3	965.8	897.8	822.4	798.9	786.5
20°	1336.8	1328.1	1297.2	1228.0	1140.2	1027.6	926.2	833.5	735.8	687.6	678.9
22.5°	1398.6	1396.2	1357.8	1261.4	1146.4	1009.1	876.8	761.8	630.7	563.9	550.3
25°	1471.6	1467.9	1408.5	1287.3	1138.9	972.0	806.3	659.1	512.0	445.2	430.3
27.5°	1558.2	1548.3	1451.8	1293.5	1117.9	913.9	716.0	526.8	378.4	321.5	310.4
30°	1649.7	1634.8	1497.6	1294.8	1075.9	842.1	597.3	387.1	268.4	227.5	227.5
32.5°	1803.0	1752.3	1542.1	1277.4	1015.3	739.5	455.1	260.9	188.0	171.9	171.9
35°	2132.0	2010.8	1612.6	1255.2	936.1	612.1	309.2	176.8	157.1	157.1	155.8
37.5°	2625.4	2400.3	1732.5	1218.1	828.5	455.1	204.0	145.9	149.6	149.6	149.6
40°	2940.7	2704.5	1895.8	1160.0	704.9	309.2	145.9	138.5	141.0	143.4	143.4
42.5°	3235.0	2969.2	2059.0	1079.6	568.9	197.9	136.0	129.8	131.1	131.1	132.3
45°	3421.8	3165.8	2180.2	994.3	419.2	141.0	133.6	122.4	118.7	118.7	121.2
47.5°	3594.9	3294.4	2233.4	881.7	270.8	132.3	127.4	113.8	108.8	107.6	107.6
50°	3768.0	3426.7	2263.0	748.2	169.4	127.4	117.5	103.9	98.9	97.7	97.7
52.5°	3844.7	3468.8	2196.3	597.3	126.1	122.4	110.1	95.2	87.8	87.8	87.8
55°	3925.1	3546.7	2083.7	427.9	120.0	113.8	101.4	85.3	79.1	81.6	81.6
57.5°	4014.1	3491.0	1963.8	278.2	118.7	102.6	90.3	76.7	71.7	74.2	75.4
60°	3986.9	3504.6	1791.9	186.7	113.8	94.0	81.6	68.0	64.3	64.3	64.3
62.5°	3986.9	3399.5	1509.9	142.2	103.9	86.6	75.4	63.1	56.9	54.4	51.9
65°	3881.8	3150.9	1103.1	123.7	92.7	80.4	68.0	55.6	48.2	44.5	43.3
67.5°	3564.0	2739.1	444.0	112.5	85.3	74.2	63.1	50.7	42.0	37.1	35.9
70°	3029.8	2021.9	127.4	100.2	86.6	69.3	59.4	44.5	37.1	30.9	29.7
72.5°	2245.7	1068.5	103.9	79.1	76.7	59.4	55.6	42.0	32.2	26.0	24.7
75°	1134.0	145.9	89.0	56.9	59.4	61.8	53.2	37.1	29.7	21.0	19.8
77.5°	117.5	86.6	77.9	38.3	42.0	43.3	45.8	34.6	26.0	17.3	16.1
80°	73.0	65.5	76.7	33.4	24.7	29.7	30.9	27.2	21.0	13.6	13.6
82.5°	51.9	55.6	56.9	21.0	18.5	17.3	16.1	16.1	18.5	12.4	12.4
85°	35.9	37.1	23.5	13.6	12.4	11.1	9.9	9.9	8.7	9.9	8.7
87.5°	8.7	7.4	7.4	7.4	6.2	6.2	4.9	4.9	4.9	4.9	6.2
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)