

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: P507682

Luminaire Tested: **VERD-S-CA1-70-730-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-730-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1330mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9010 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

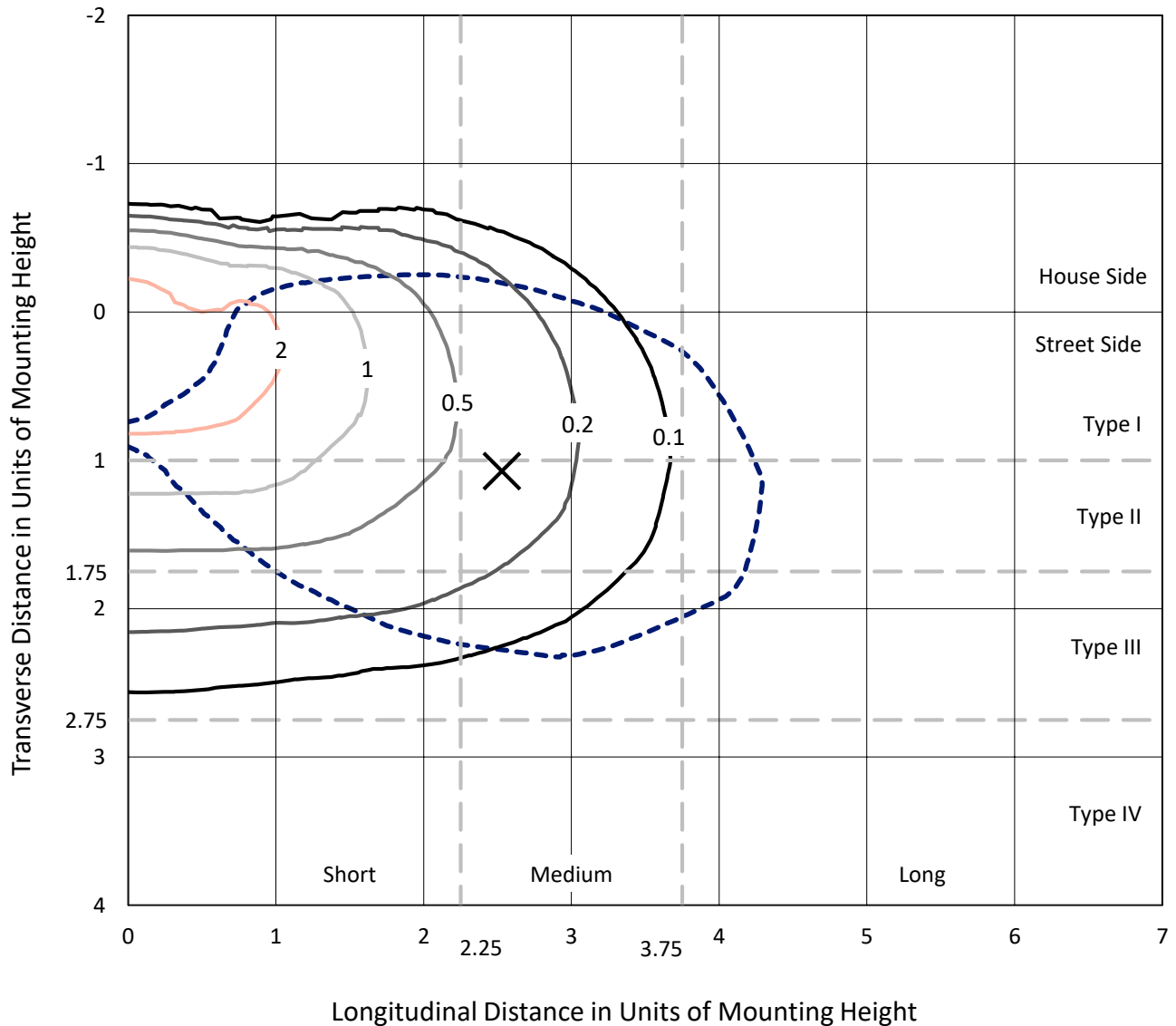
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

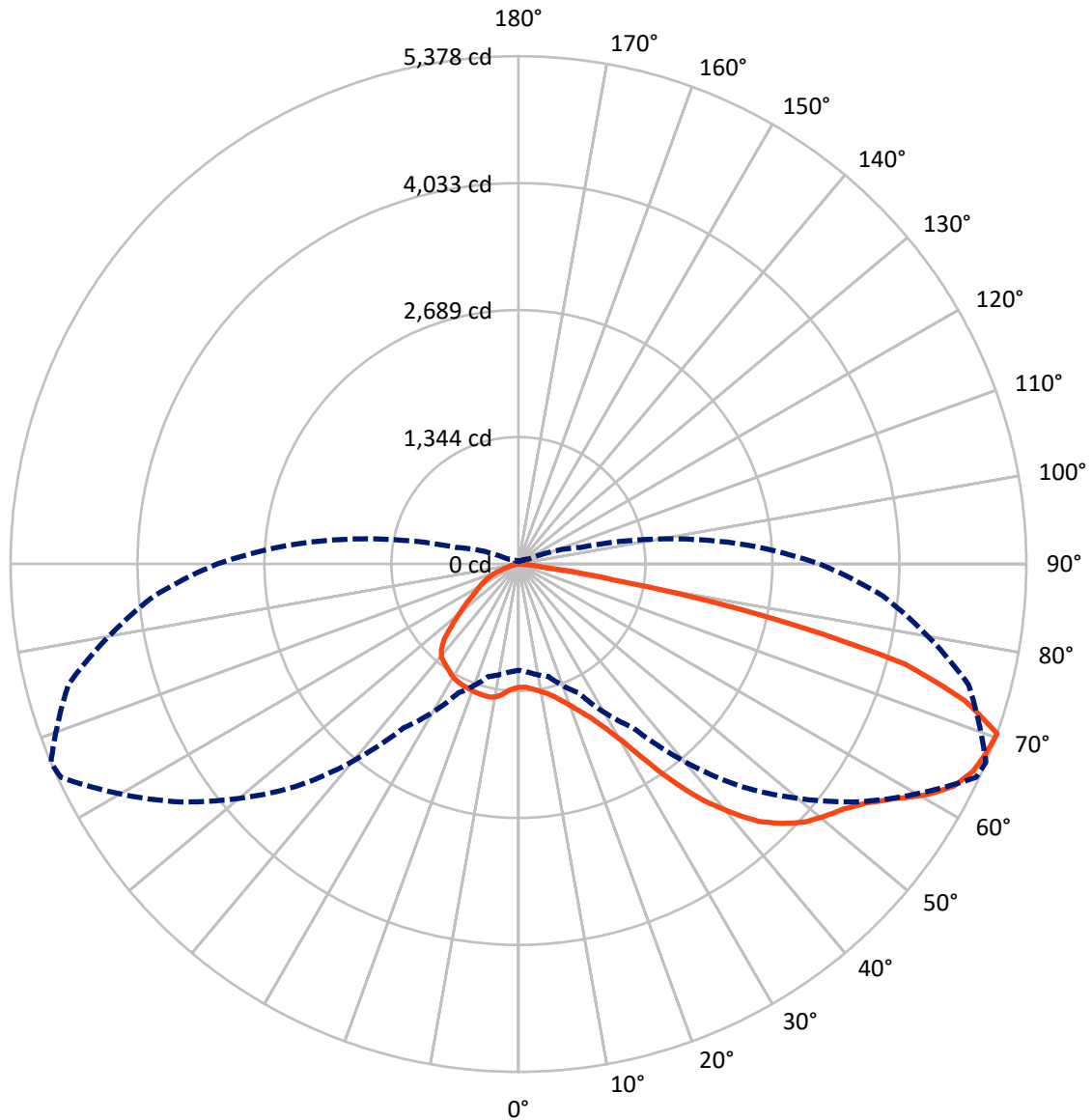
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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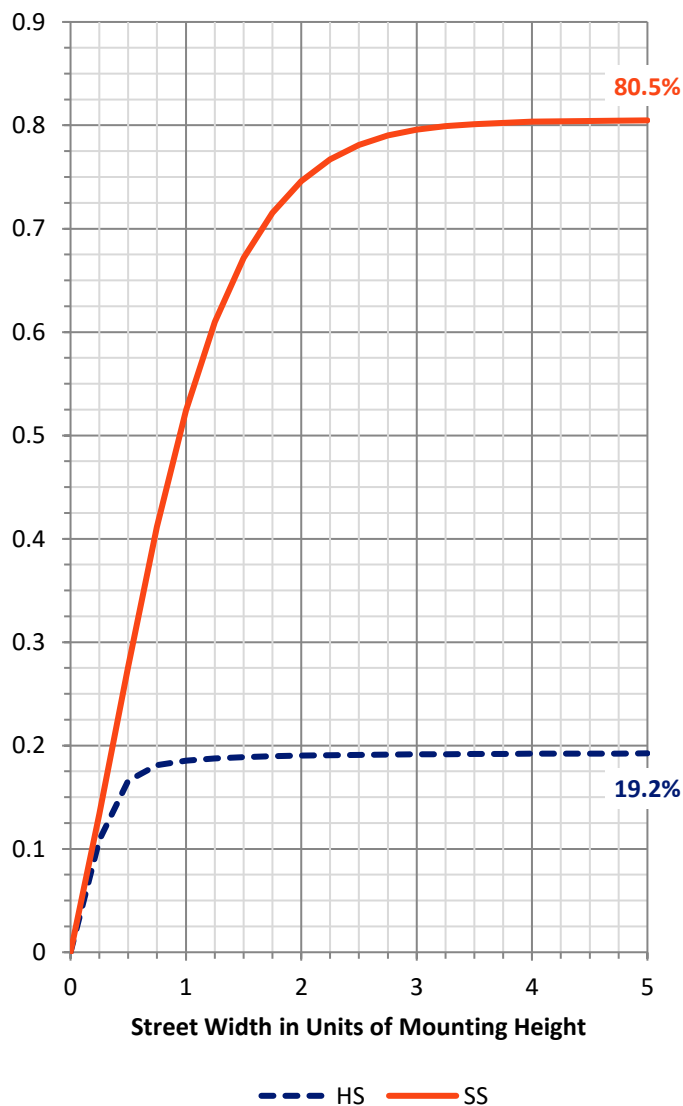
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1755.9	0.0	1755.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7254.1	0.0	7254.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	9010.0	0.0	9010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.5
10°-20°	415.9	4.6
20°-30°	722.8	8.0
30°-40°	1131.9	12.6
40°-50°	1592.6	17.7
50°-60°	1899.4	21.1
60°-70°	1968.2	21.8
70°-80°	1086.1	12.1
80°-90°	61.8	0.7
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°	9010.0	100.0
0°-180°	9010.0	100.0

Coefficient of Utilization



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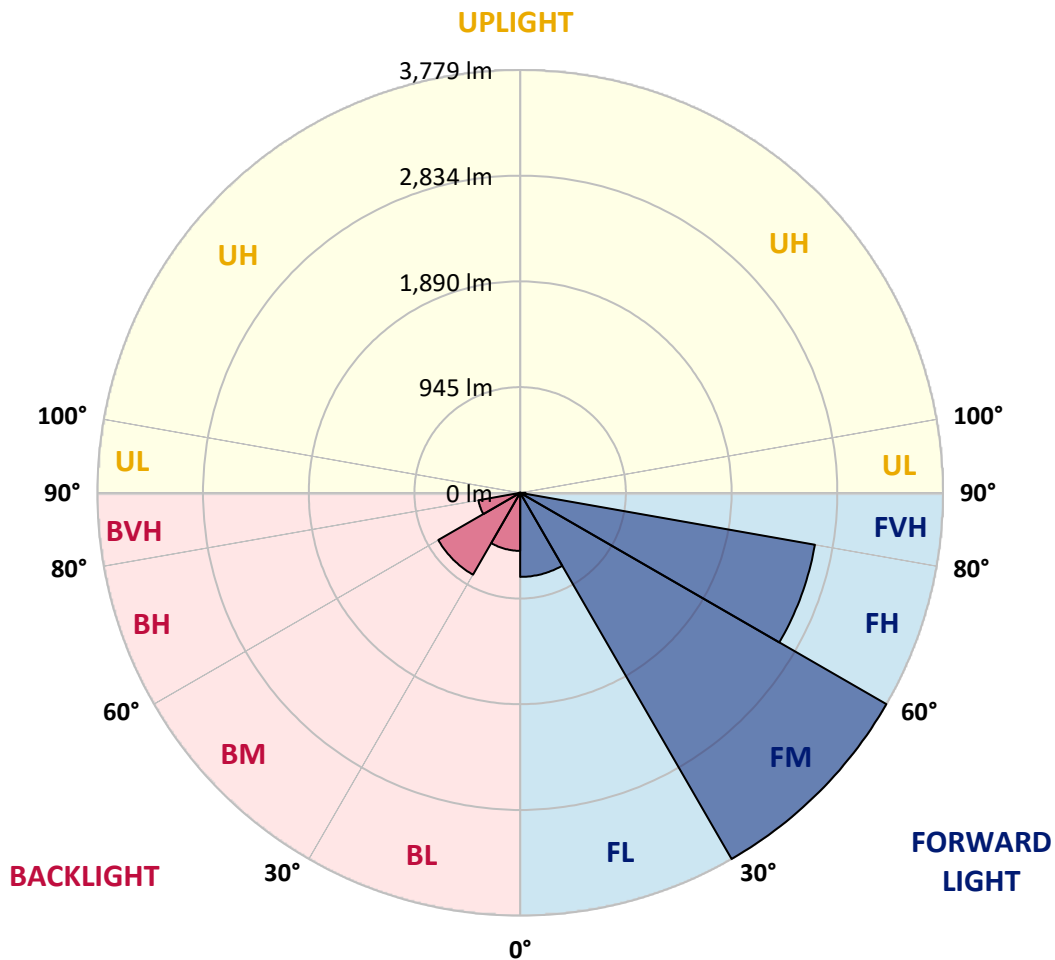
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.6	8.3			
FM	(30°-60°)	3779.2	41.9			
FH	(60°-80°)	2675.2	29.7			G2/5000
FVH	(80°-90°)	48.0	0.5			G1/100
BL	(0°-30°)	518.5	5.8	B2/1000		
BM	(30°-60°)	844.6	9.4	B1/1000		
BH	(60°-80°)	379.0	4.2	B1/500		G1/500
BVH	(80°-90°)	13.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1313.0	1313.0	1313.0	1310.3	1310.3	1310.3	1307.5	1304.8	1304.8	1304.8	1307.5
5°	1348.6	1348.6	1345.8	1343.1	1340.4	1332.2	1326.7	1324.0	1324.0	1321.2	1326.7
7.5°	1392.3	1392.3	1392.3	1386.9	1378.7	1367.7	1356.8	1348.6	1345.8	1343.1	1345.8
10°	1458.0	1458.0	1452.5	1444.3	1430.6	1414.2	1395.1	1378.7	1375.9	1370.5	1375.9
12.5°	1542.8	1534.6	1529.1	1515.4	1499.0	1471.7	1441.6	1417.0	1411.5	1406.0	1425.2
15°	1630.3	1627.6	1613.9	1605.7	1578.3	1542.8	1501.8	1468.9	1463.5	1452.5	1468.9
17.5°	1734.3	1737.0	1731.5	1717.9	1679.6	1627.6	1578.3	1531.8	1526.4	1518.2	1526.4
20°	1876.5	1871.0	1860.1	1840.9	1797.2	1728.8	1665.9	1613.9	1605.7	1600.2	1592.0
22.5°	2018.8	2021.5	1999.6	1980.5	1925.7	1860.1	1775.3	1712.4	1701.4	1698.7	1660.4
25°	2155.5	2161.0	2152.8	2128.2	2081.7	1996.9	1903.9	1827.3	1813.6	1810.9	1745.2
27.5°	2297.8	2300.5	2308.7	2297.8	2248.5	2161.0	2057.0	1969.5	1969.5	1947.6	1849.2
30°	2434.5	2440.0	2445.5	2445.5	2420.9	2344.3	2254.0	2177.4	2177.4	2161.0	1991.4
32.5°	2541.2	2544.0	2576.8	2604.1	2604.1	2549.4	2489.2	2481.0	2478.3	2508.4	2316.9
35°	2637.0	2645.2	2691.7	2765.5	2795.6	2773.7	2776.5	2806.6	2836.6	2910.5	2765.5
37.5°	2708.1	2719.0	2762.8	2847.6	2932.4	2989.8	3044.5	3126.6	3173.1	3285.3	3085.6
40°	2727.2	2740.9	2833.9	2954.3	3091.0	3222.3	3320.8	3422.0	3452.1	3531.4	3279.8
42.5°	2667.0	2680.7	2798.4	3041.8	3233.3	3438.4	3545.1	3673.7	3725.7	3695.6	3441.2
45°	2626.0	2634.2	2757.3	3033.6	3356.4	3649.1	3753.0	3887.1	3919.9	3848.8	3575.2
47.5°	2574.0	2582.3	2710.8	3022.7	3457.6	3829.6	3900.7	4048.4	4081.3	3971.9	3690.1
50°	2497.5	2502.9	2650.6	3000.8	3523.2	3958.2	4037.5	4185.2	4198.9	4086.7	3799.5
52.5°	2404.4	2420.9	2563.1	2948.8	3569.7	4037.5	4133.2	4291.9	4311.0	4234.5	3919.9
55°	2278.6	2297.8	2461.9	2872.2	3553.3	4064.9	4177.0	4434.1	4467.0	4404.1	4021.1
57.5°	2150.1	2177.4	2338.8	2765.5	3487.7	4105.9	4322.0	4644.8	4688.5	4570.9	4103.2
60°	2018.8	2029.7	2196.6	2620.5	3378.3	4146.9	4486.1	4921.0	4962.1	4735.0	4168.8
62.5°	1868.3	1882.0	2029.7	2420.9	3189.5	4108.6	4609.2	5153.6	5178.2	4871.8	4196.2
65°	1693.2	1693.2	1819.1	2177.4	2935.1	3971.9	4625.6	5273.9	5290.3	4959.3	4163.3
67.5°	1449.8	1460.7	1561.9	1876.5	2593.2	3703.8	4532.6	5301.3	5342.3	5014.1	4073.1
70°	1124.3	1148.9	1233.7	1504.5	2117.2	3331.8	4393.1	5345.0	5377.9	4934.7	3870.6
72.5°	768.7	793.3	869.9	1031.3	1526.4	2672.5	3974.6	4932.0	4940.2	4549.0	3476.7
75°	202.4	224.3	284.5	413.1	640.1	1797.2	3178.6	4177.0	4226.2	3933.6	2869.5
77.5°	60.2	60.2	73.9	95.7	131.3	366.5	1616.6	2661.6	2710.8	2593.2	1789.0
80°	46.5	46.5	54.7	65.7	84.8	188.7	560.8	982.0	1042.2	1113.3	738.6
82.5°	30.1	32.8	35.6	38.3	38.3	76.6	150.4	251.7	248.9	270.8	238.0
85°	19.1	19.1	16.4	16.4	13.7	19.1	13.7	16.4	19.1	19.1	21.9
87.5°	2.7	0.0	0.0	0.0	0.0	2.7	2.7	5.5	5.5	5.5	8.2
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°	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1310.3	1313.0	1315.7	1318.5	1324.0	1324.0	1326.7	1326.7	1326.7	1326.7	1326.7
5°	1326.7	1329.4	1337.6	1345.8	1365.0	1375.9	1386.9	1395.1	1395.1	1400.5	1400.5
7.5°	1351.3	1359.5	1384.1	1395.1	1411.5	1427.9	1436.1	1438.8	1444.3	1444.3	1444.3
10°	1392.3	1400.5	1419.7	1427.9	1436.1	1436.1	1433.4	1430.6	1422.4	1419.7	1422.4
12.5°	1430.6	1441.6	1441.6	1438.8	1430.6	1419.7	1406.0	1392.3	1378.7	1367.7	1367.7
15°	1477.1	1471.7	1455.3	1433.4	1411.5	1384.1	1356.8	1332.2	1310.3	1302.1	1302.1
17.5°	1518.2	1504.5	1468.9	1427.9	1381.4	1337.6	1293.9	1252.8	1214.5	1200.9	1192.6
20°	1567.4	1542.8	1479.9	1417.0	1351.3	1282.9	1209.1	1135.2	1069.6	1042.2	1039.5
22.5°	1624.8	1583.8	1496.3	1400.5	1313.0	1209.1	1086.0	982.0	916.4	883.5	878.1
25°	1693.2	1633.1	1512.7	1386.9	1266.5	1113.3	949.2	831.6	749.5	713.9	700.3
27.5°	1778.0	1698.7	1534.6	1370.5	1195.4	995.7	809.7	672.9	582.6	538.9	533.4
30°	1887.5	1778.0	1556.5	1345.8	1107.9	858.9	659.2	506.1	415.8	372.0	361.1
32.5°	2139.1	1939.4	1583.8	1304.8	998.4	727.6	497.8	339.2	248.9	207.9	205.2
35°	2565.8	2303.2	1646.7	1250.1	889.0	571.7	320.0	180.5	134.0	117.6	117.6
37.5°	2885.9	2606.9	1816.3	1179.0	746.8	383.0	164.1	106.7	84.8	82.1	82.1
40°	3077.4	2787.4	2002.3	1099.6	577.2	205.2	101.2	82.1	76.6	73.9	73.9
42.5°	3236.0	2937.9	2089.9	1001.2	366.5	114.9	84.8	76.6	71.1	68.4	68.4
45°	3367.3	3052.7	2100.8	875.3	205.2	95.7	79.3	68.4	65.7	62.9	62.9
47.5°	3471.3	3151.2	2073.5	697.5	128.6	90.3	73.9	62.9	57.4	57.4	57.4
50°	3569.7	3236.0	1996.9	549.8	120.4	84.8	68.4	57.4	54.7	54.7	54.7
52.5°	3660.0	3296.2	1868.3	443.1	112.2	79.3	65.7	54.7	49.2	52.0	52.0
55°	3733.9	3320.8	1737.0	341.9	106.7	76.6	62.9	52.0	46.5	46.5	46.5
57.5°	3774.9	3268.8	1627.6	259.9	103.9	73.9	60.2	49.2	41.0	38.3	38.3
60°	3777.6	3200.5	1526.4	218.8	98.5	68.4	57.4	43.8	35.6	32.8	32.8
62.5°	3728.4	3118.4	1373.2	188.7	93.0	65.7	52.0	41.0	32.8	30.1	30.1
65°	3632.7	2973.4	1203.6	161.4	90.3	65.7	46.5	38.3	32.8	27.4	27.4
67.5°	3479.5	2732.7	976.6	142.2	84.8	60.2	46.5	35.6	30.1	27.4	27.4
70°	3189.5	2388.0	675.7	123.1	79.3	54.7	43.8	35.6	30.1	24.6	24.6
72.5°	2749.1	1939.4	333.7	101.2	68.4	54.7	43.8	32.8	27.4	24.6	24.6
75°	2125.4	1389.6	202.4	82.1	54.7	49.2	41.0	32.8	27.4	21.9	21.9
77.5°	1250.1	618.2	145.0	62.9	41.0	38.3	35.6	30.1	24.6	21.9	21.9
80°	456.8	262.6	106.7	49.2	32.8	32.8	27.4	24.6	21.9	19.1	19.1
82.5°	177.8	139.5	71.1	35.6	27.4	24.6	21.9	19.1	16.4	16.4	16.4
85°	24.6	24.6	24.6	19.1	16.4	16.4	13.7	13.7	10.9	10.9	10.9
87.5°	8.2	8.2	8.2	10.9	8.2	8.2	5.5	5.5	5.5	8.2	8.2
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)