

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: P507723

Luminaire Tested: **VERD-S-CA1-80-727-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-727-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9146 lumens
Efficiency: N/A
Efficacy: 110.1 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): 83.1
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

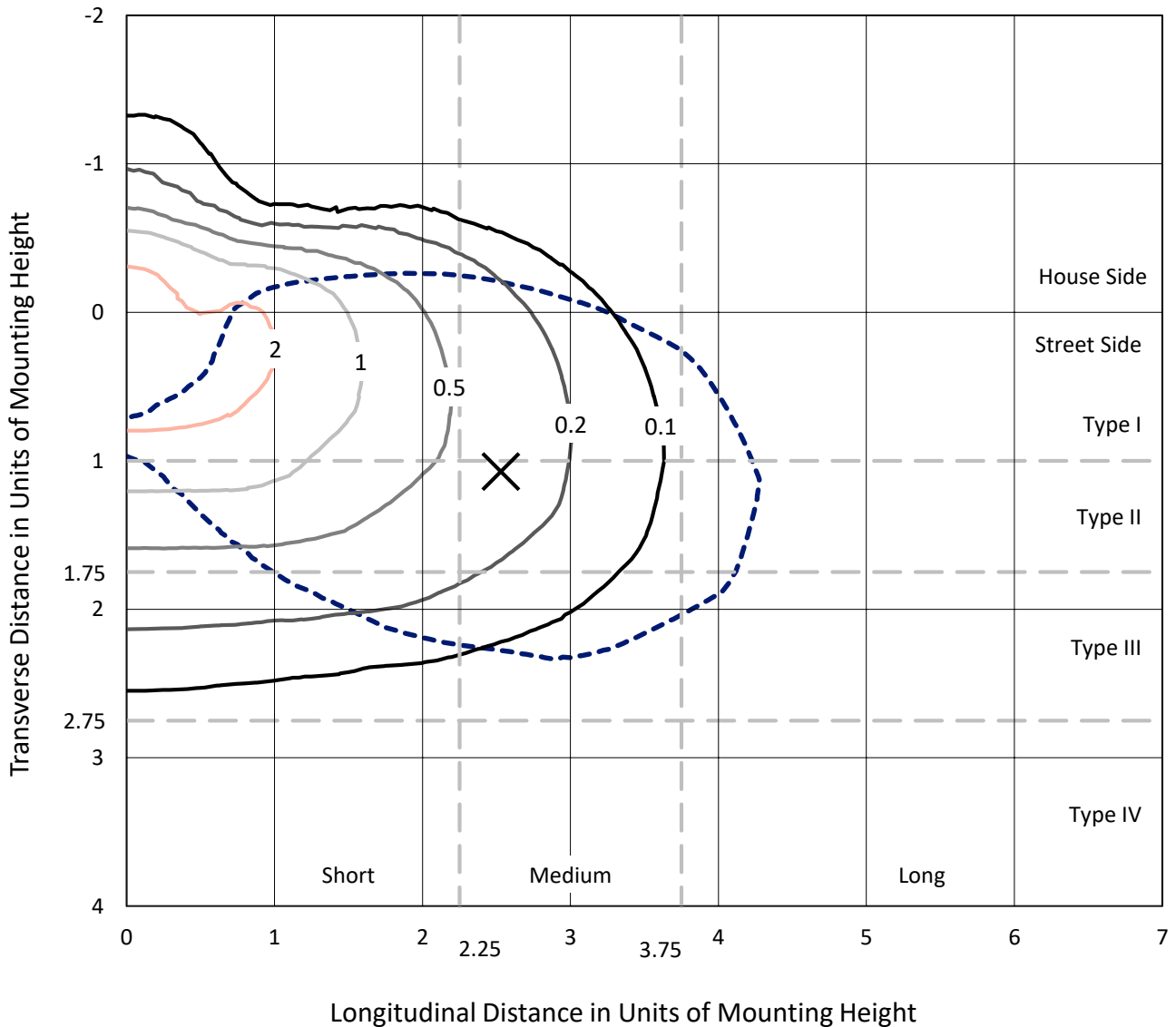


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Iso-Footcandle Lines of Horizontal Illumination

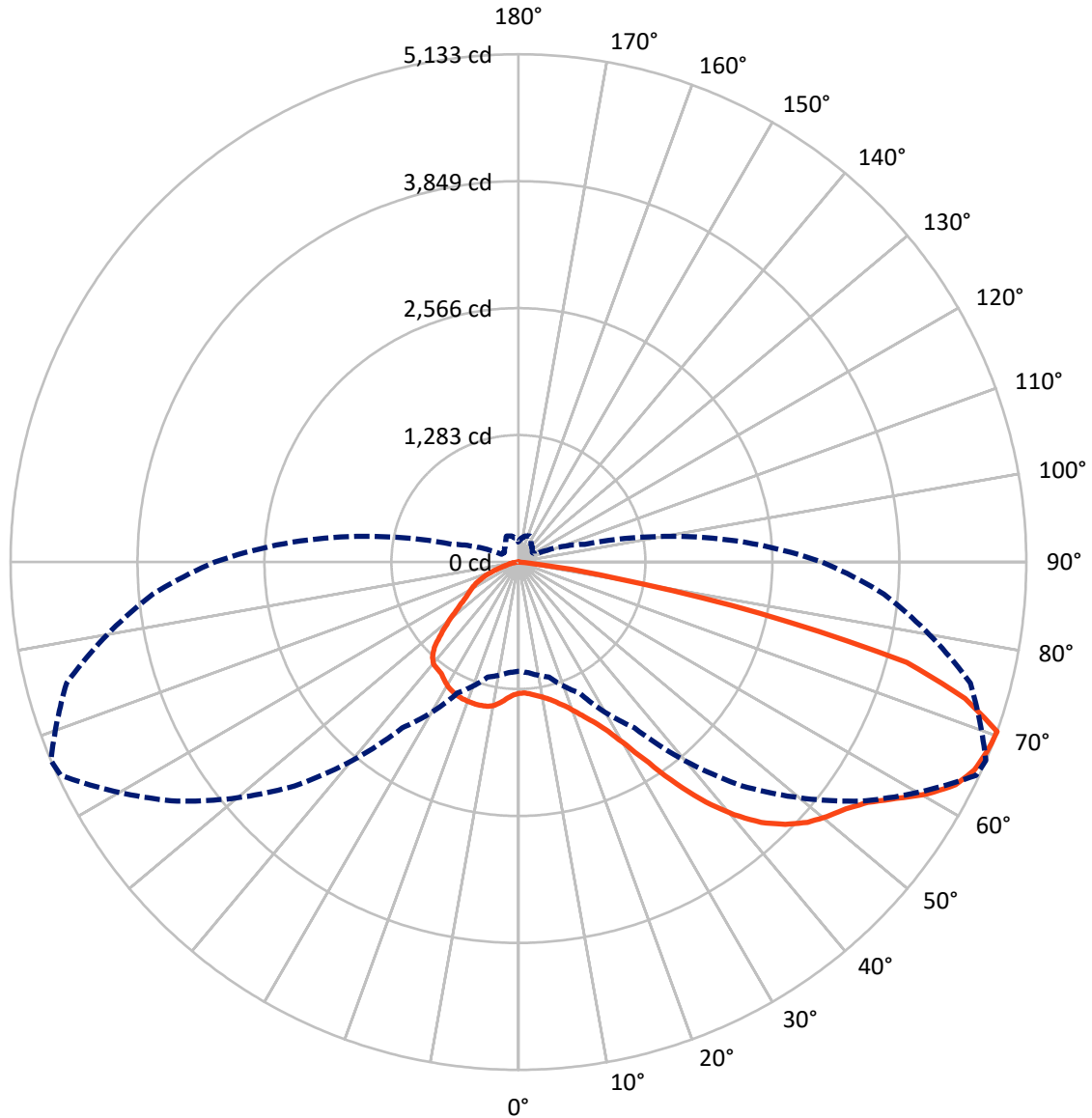
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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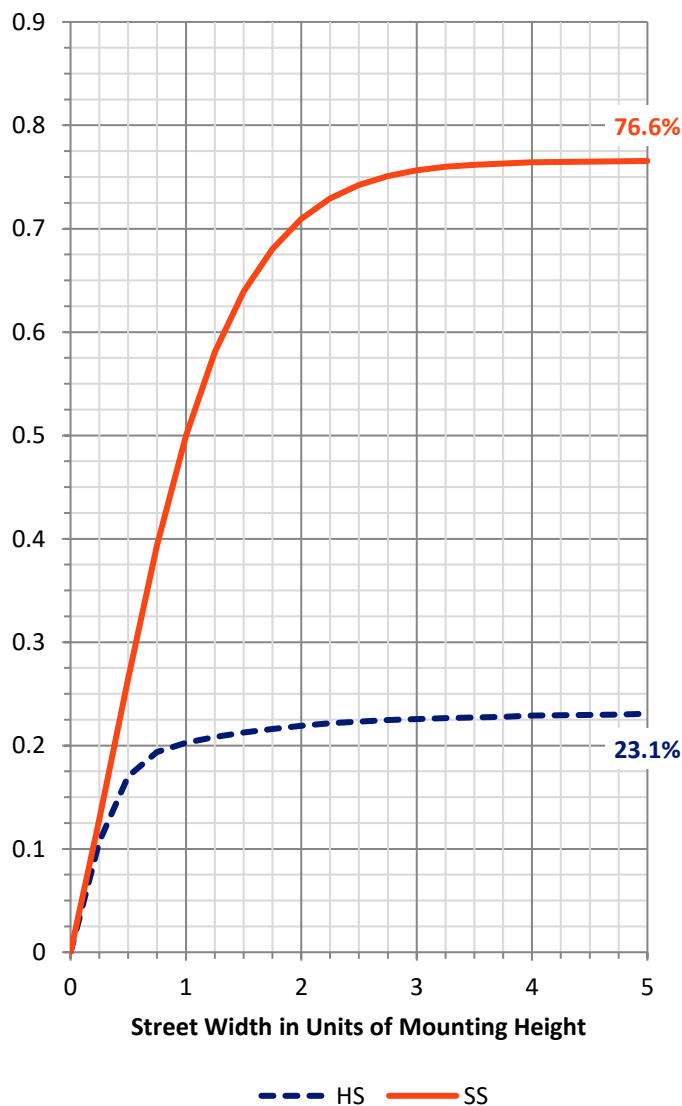
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2139.9	0.0	2139.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7006.1	0.0	7006.1
	% Fixture	76.6	0.0	76.6
Total	Lumens	9146.0	0.0	9146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.5
10°-20°	433.6	4.7
20°-30°	764.6	8.4
30°-40°	1172.0	12.8
40°-50°	1597.6	17.5
50°-60°	1890.5	20.7
60°-70°	1970.8	21.5
70°-80°	1102.5	12.1
80°-90°	79.8	0.9
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°	9146.0	100.0
0°-180°	9146.0	100.0

Coefficient of Utilization



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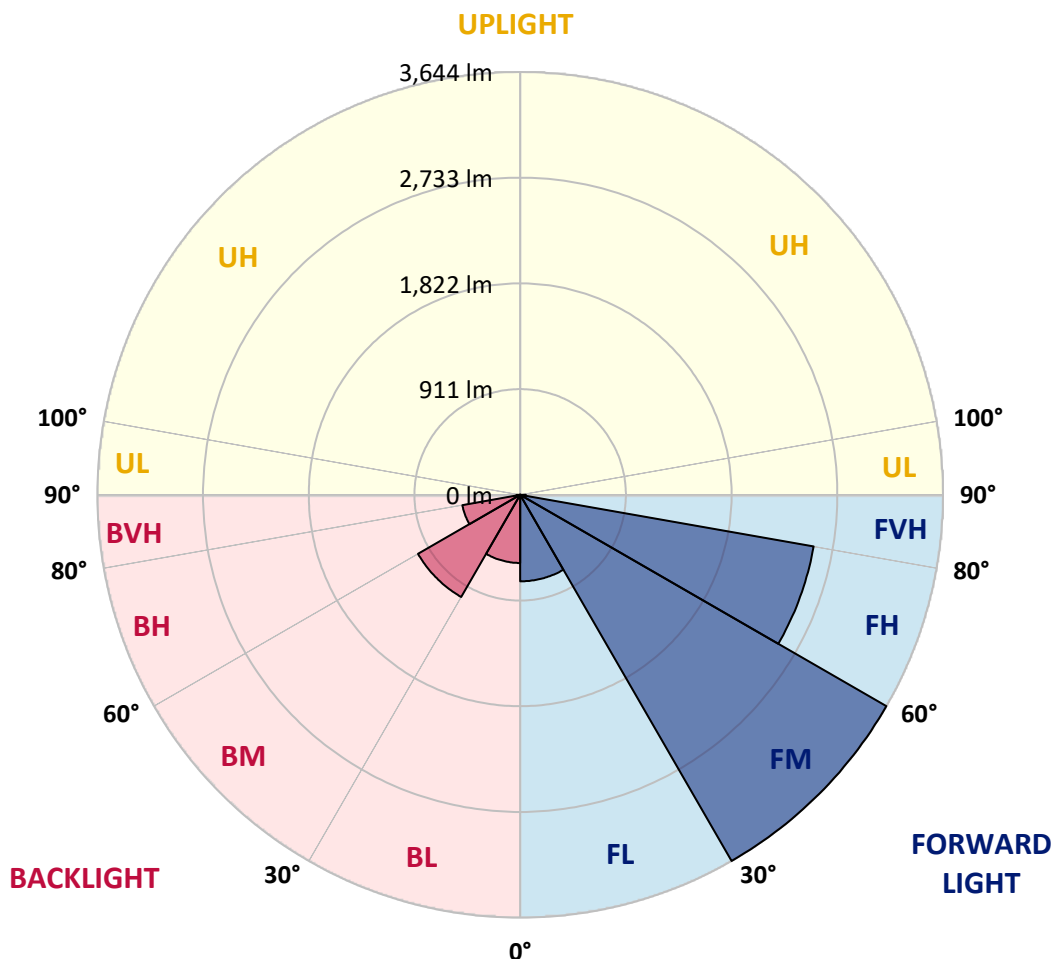
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.5	8.2			
FM (30°-60°)	3643.7	39.8			
FH (60°-80°)	2568.0	28.1			G2/5000
FVH (80°-90°)	48.9	0.5			G1/100
BL (0°-30°)	587.4	6.4	B2/1000		
BM (30°-60°)	1016.4	11.1	B2/2500		
BH (60°-80°)	505.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.9	0.3			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°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1331.8	1331.8	1331.8	1329.2	1329.2	1329.2	1326.6	1324.0	1324.0	1326.6	1326.6
5°	1365.6	1365.6	1363.0	1360.4	1355.2	1350.0	1344.8	1342.2	1342.2	1342.2	1344.8
7.5°	1412.3	1409.7	1404.5	1401.9	1394.1	1386.4	1376.0	1365.6	1365.6	1360.4	1365.6
10°	1469.4	1469.4	1461.6	1456.4	1446.1	1425.3	1409.7	1394.1	1391.5	1386.4	1394.1
12.5°	1542.1	1542.1	1536.9	1523.9	1508.4	1482.4	1453.9	1427.9	1425.3	1417.5	1433.1
15°	1630.4	1622.6	1620.0	1609.6	1581.1	1547.3	1508.4	1474.6	1474.6	1461.6	1479.8
17.5°	1729.0	1726.4	1723.9	1710.9	1677.1	1627.8	1575.9	1536.9	1529.1	1521.4	1531.7
20°	1848.5	1845.9	1843.3	1822.5	1783.6	1723.9	1661.5	1609.6	1604.4	1596.6	1588.9
22.5°	1986.1	1986.1	1975.7	1960.1	1905.6	1835.5	1760.2	1695.3	1695.3	1687.5	1651.2
25°	2118.5	2113.3	2108.1	2089.9	2045.8	1970.5	1882.2	1806.9	1796.5	1796.5	1734.2
27.5°	2240.5	2240.5	2248.3	2237.9	2193.8	2115.9	2027.6	1941.9	1936.7	1926.4	1830.3
30°	2367.7	2372.9	2375.5	2375.5	2354.7	2295.0	2199.0	2134.0	2144.4	2118.5	1973.1
32.5°	2463.8	2469.0	2502.7	2533.9	2515.7	2481.9	2427.4	2406.6	2417.0	2437.8	2279.4
35°	2554.6	2562.4	2609.1	2674.0	2702.6	2687.0	2694.8	2731.2	2754.5	2837.6	2700.0
37.5°	2622.1	2629.9	2671.5	2751.9	2837.6	2881.7	2954.4	3034.9	3079.1	3185.5	2988.2
40°	2640.3	2653.3	2739.0	2848.0	2977.8	3110.2	3198.5	3302.3	3356.8	3406.2	3182.9
42.5°	2578.0	2591.0	2702.6	2931.1	3112.8	3315.3	3411.4	3554.1	3598.3	3569.7	3333.5
45°	2539.0	2546.8	2661.1	2923.3	3229.6	3512.6	3606.1	3756.6	3782.6	3712.5	3463.3
47.5°	2484.5	2492.3	2614.3	2910.3	3323.1	3684.0	3748.9	3896.8	3930.6	3831.9	3561.9
50°	2404.0	2414.4	2554.6	2886.9	3385.4	3800.8	3870.9	4024.1	4042.2	3938.4	3665.8
52.5°	2308.0	2323.6	2471.5	2837.6	3426.9	3876.1	3966.9	4125.3	4143.5	4076.0	3777.4
55°	2191.2	2206.7	2365.1	2764.9	3414.0	3899.4	4008.5	4255.1	4286.3	4231.7	3873.5
57.5°	2076.9	2087.3	2250.9	2658.5	3341.3	3935.8	4133.1	4465.4	4506.9	4392.7	3951.4
60°	1939.3	1962.7	2121.1	2513.1	3229.6	3972.1	4294.1	4717.2	4756.2	4548.5	4011.1
62.5°	1796.5	1817.3	1957.5	2331.4	3055.7	3938.4	4416.1	4935.3	4958.7	4673.1	4031.8
65°	1630.4	1633.0	1762.8	2100.3	2806.5	3800.8	4426.5	5041.8	5065.1	4751.0	3995.5
67.5°	1409.7	1409.7	1518.8	1806.9	2471.5	3551.6	4333.0	5075.5	5109.3	4802.9	3907.2
70°	1103.4	1121.5	1204.6	1461.6	2045.8	3198.5	4213.6	5101.5	5132.6	4727.6	3707.3
72.5°	771.1	765.9	851.5	1007.3	1479.8	2552.0	3759.2	4719.8	4719.8	4343.4	3341.3
75°	236.3	264.8	303.8	407.6	675.0	1710.9	3079.1	4000.7	4052.6	3761.8	2754.5
77.5°	77.9	77.9	90.9	111.6	145.4	363.5	1539.5	2450.8	2492.3	2448.2	1705.7
80°	62.3	62.3	70.1	80.5	93.5	186.9	542.6	919.0	986.5	1087.8	706.2
82.5°	44.1	44.1	46.7	49.3	46.7	75.3	142.8	244.0	249.2	270.0	228.5
85°	28.6	26.0	26.0	23.4	20.8	20.8	18.2	18.2	20.8	20.8	26.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.8	7.8	7.8	7.8
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°	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6	1326.6
2.5°	1329.2	1331.8	1339.6	1344.8	1350.0	1355.2	1357.8	1360.4	1360.4	1363.0	1363.0
5°	1347.4	1352.6	1365.6	1378.6	1399.3	1420.1	1438.3	1448.7	1451.3	1461.6	1461.6
7.5°	1370.8	1378.6	1409.7	1433.1	1464.2	1487.6	1508.4	1518.8	1529.1	1534.3	1534.3
10°	1407.1	1417.5	1448.7	1474.6	1500.6	1518.8	1531.7	1539.5	1542.1	1544.7	1544.7
12.5°	1443.5	1456.4	1474.6	1495.4	1511.0	1521.4	1529.1	1531.7	1531.7	1531.7	1531.7
15°	1482.4	1487.6	1492.8	1498.0	1505.8	1508.4	1508.4	1505.8	1500.6	1498.0	1498.0
17.5°	1521.4	1516.2	1508.4	1498.0	1487.6	1479.8	1469.4	1459.0	1451.3	1446.1	1448.7
20°	1568.1	1552.5	1518.8	1492.8	1464.2	1435.7	1412.3	1391.5	1376.0	1373.4	1376.0
22.5°	1622.6	1591.4	1536.9	1482.4	1433.1	1381.2	1331.8	1303.3	1287.7	1274.7	1274.7
25°	1687.5	1638.2	1552.5	1466.8	1388.9	1305.9	1238.4	1194.2	1168.3	1152.7	1157.9
27.5°	1762.8	1700.5	1568.1	1443.5	1324.0	1215.0	1126.7	1056.6	1028.1	1007.3	1009.9
30°	1871.8	1773.2	1586.3	1409.7	1241.0	1103.4	986.5	903.5	854.1	838.6	843.8
32.5°	2115.9	1928.9	1607.0	1360.4	1147.5	971.0	815.2	713.9	662.0	662.0	659.4
35°	2523.5	2253.5	1656.4	1300.7	1043.7	823.0	623.1	529.6	527.0	537.4	540.0
37.5°	2809.0	2552.0	1809.5	1243.6	929.4	643.8	462.1	436.2	462.1	472.5	469.9
40°	2993.4	2731.2	1986.1	1183.9	768.5	462.1	366.1	347.9	373.8	394.6	410.2
42.5°	3144.0	2855.8	2066.5	1106.0	573.8	332.3	270.0	264.8	303.8	332.3	342.7
45°	3263.4	2970.0	2076.9	996.9	389.4	246.6	220.7	244.0	290.8	314.1	316.7
47.5°	3359.4	3063.5	2048.4	823.0	259.6	215.5	215.5	246.6	290.8	314.1	314.1
50°	3452.9	3141.4	1975.7	669.8	233.7	210.3	218.1	249.2	288.2	306.3	306.3
52.5°	3530.8	3193.3	1848.5	534.8	225.9	205.1	218.1	249.2	283.0	290.8	285.6
55°	3600.9	3214.1	1734.2	431.0	218.1	202.5	223.3	254.4	280.4	280.4	270.0
57.5°	3639.8	3164.7	1648.6	355.7	210.3	202.5	225.9	259.6	288.2	293.4	285.6
60°	3639.8	3094.6	1555.1	314.1	205.1	202.5	225.9	277.8	342.7	316.7	314.1
62.5°	3590.5	3019.3	1414.9	280.4	197.3	205.1	228.5	308.9	418.0	314.1	301.2
65°	3504.8	2874.0	1230.6	249.2	189.5	207.7	225.9	355.7	498.5	303.8	267.4
67.5°	3343.9	2642.9	1002.1	218.1	179.1	202.5	220.7	327.1	306.3	251.8	225.9
70°	3066.1	2297.6	695.8	189.5	171.3	197.3	220.7	288.2	272.6	231.1	202.5
72.5°	2653.3	1884.8	373.8	155.8	150.6	186.9	215.5	264.8	233.7	189.5	171.3
75°	2038.0	1339.6	228.5	122.0	124.6	166.2	199.9	251.8	223.3	181.7	158.4
77.5°	1176.1	620.5	163.6	90.9	88.3	132.4	179.1	233.7	218.1	176.5	153.2
80°	431.0	257.0	111.6	67.5	59.7	96.1	140.2	189.5	207.7	173.9	155.8
82.5°	184.3	137.6	72.7	46.7	44.1	54.5	85.7	132.4	173.9	140.2	129.8
85°	26.0	26.0	26.0	23.4	26.0	33.8	36.3	64.9	96.1	51.9	51.9
87.5°	10.4	10.4	10.4	10.4	13.0	13.0	10.4	10.4	7.8	7.8	7.8
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)