

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: P509270

Luminaire Tested: **VERD-CA2-60-740-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-740-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8640 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

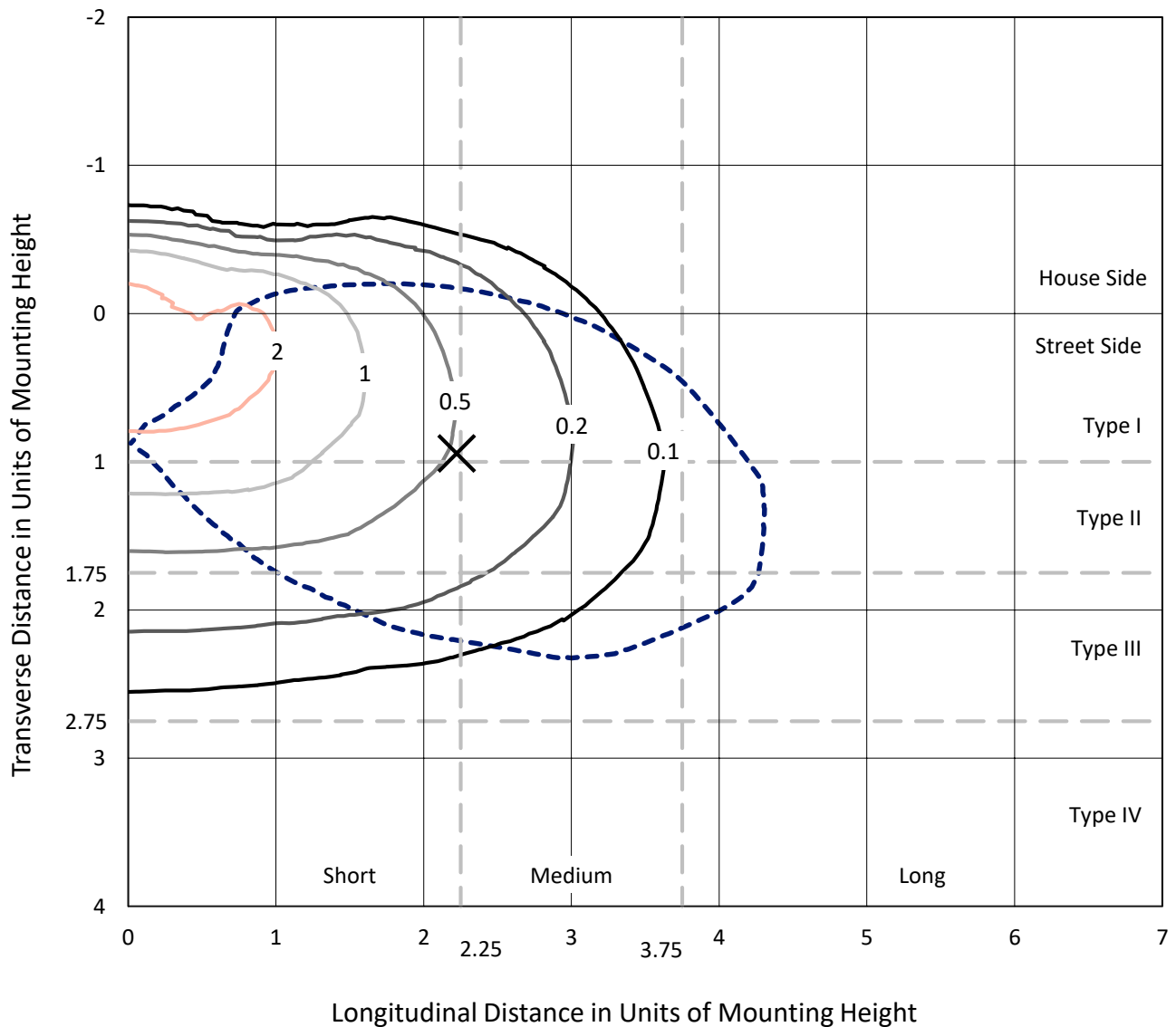
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

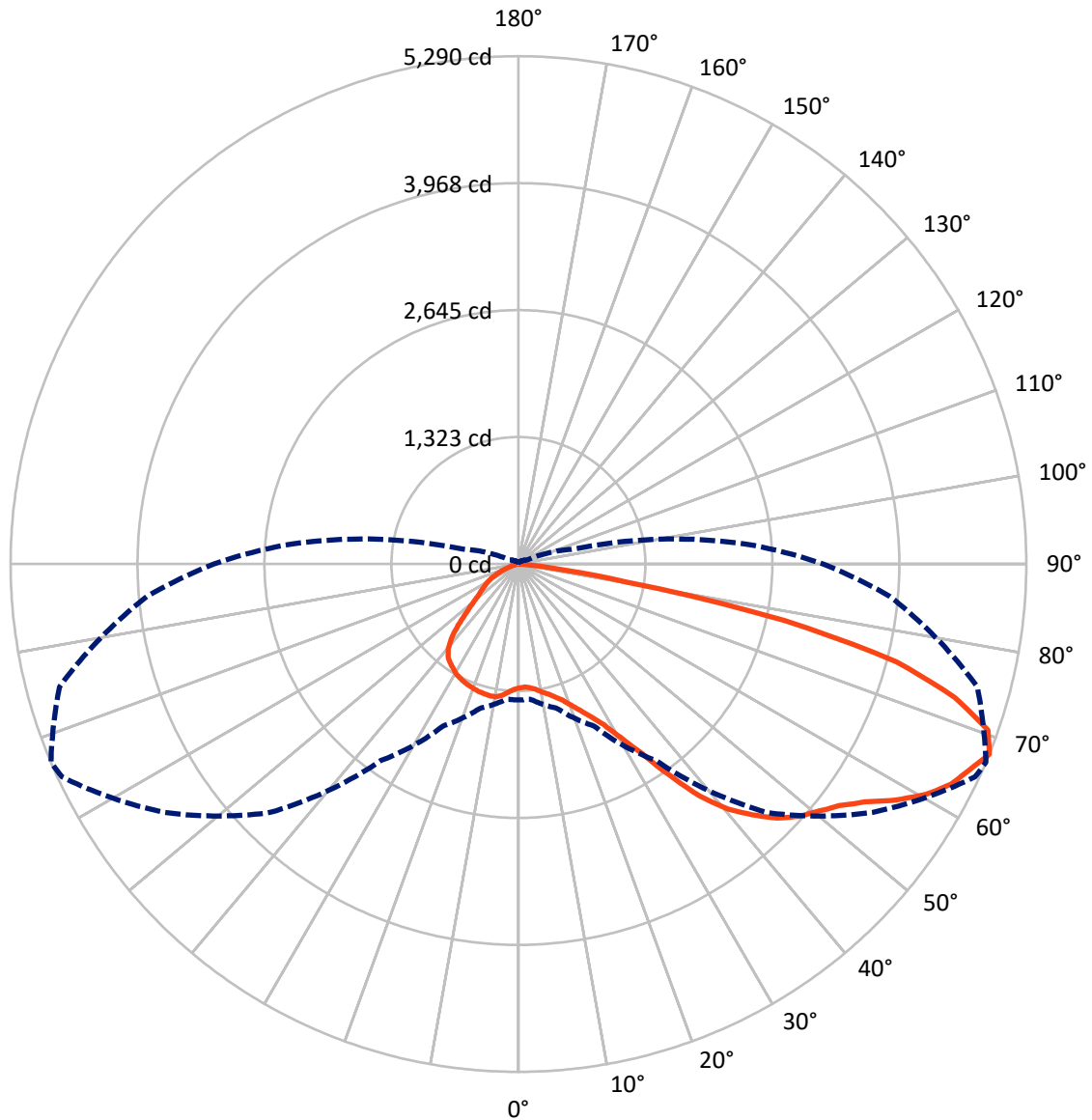
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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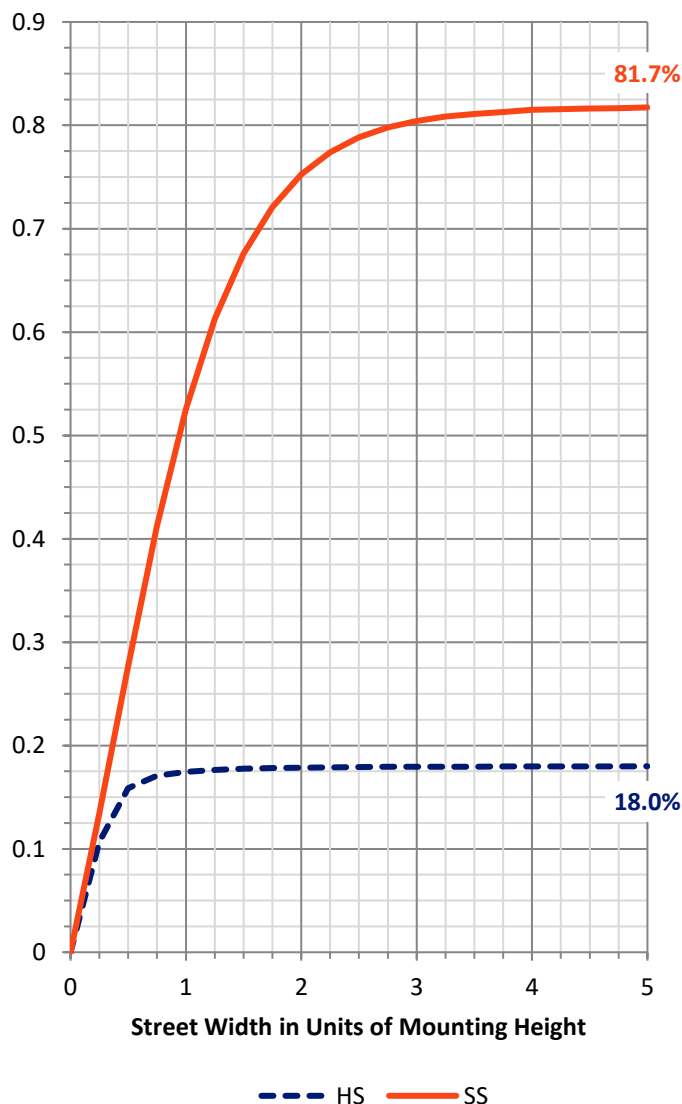
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1574.3	0.0	1574.3
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	7065.8	0.0	7065.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	8640.0	0.0	8640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.5
10°-20°	404.8	4.7
20°-30°	690.7	8.0
30°-40°	1075.1	12.4
40°-50°	1517.7	17.6
50°-60°	1827.9	21.2
60°-70°	1889.0	21.9
70°-80°	1040.6	12.0
80°-90°	64.9	0.8
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°	8640.0	100.0
0°-180°	8640.0	100.0

Coefficient of Utilization



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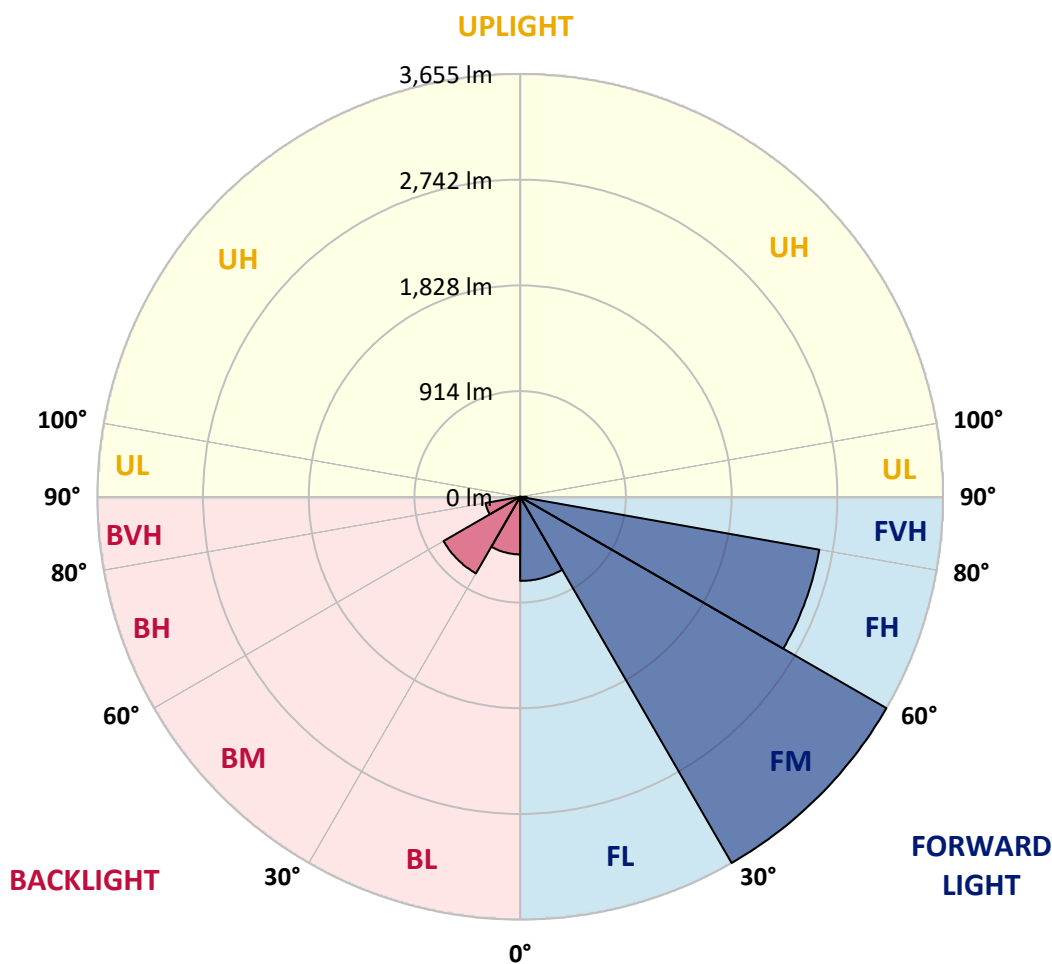
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.0	8.4			
FM (30°-60°)	3655.4	42.3			
FH (60°-80°)	2626.2	30.4			G2/5000
FVH (80°-90°)	57.0	0.7			G1/100
BL (0°-30°)	497.7	5.8	B1/500		
BM (30°-60°)	765.3	8.9	B1/1000		
BH (60°-80°)	303.4	3.5	B1/500		G1/500
BVH (80°-90°)	7.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1
2.5°	1278.0	1291.1	1291.1	1287.1	1289.1	1280.0	1274.0	1281.0	1283.0	1289.1	1297.1
5°	1303.1	1318.1	1317.1	1310.1	1304.1	1296.1	1288.1	1294.1	1295.1	1297.1	1307.1
7.5°	1356.1	1370.1	1364.1	1357.1	1354.1	1336.1	1319.1	1318.1	1320.1	1326.1	1337.1
10°	1425.1	1436.1	1434.1	1423.1	1415.1	1388.1	1364.1	1355.1	1356.1	1358.1	1377.1
12.5°	1503.1	1518.1	1507.1	1492.1	1478.1	1439.1	1406.1	1393.1	1391.1	1396.1	1412.1
15°	1580.1	1596.1	1588.1	1579.1	1547.1	1504.1	1462.1	1441.1	1439.1	1439.1	1449.1
17.5°	1681.1	1687.1	1682.1	1669.1	1633.1	1579.1	1529.1	1498.1	1493.1	1496.1	1498.1
20°	1793.1	1804.1	1798.1	1784.1	1732.1	1674.1	1611.1	1574.1	1571.1	1574.1	1555.1
22.5°	1929.1	1933.1	1930.1	1907.1	1860.1	1783.1	1700.1	1658.1	1658.1	1661.1	1622.1
25°	2045.1	2069.1	2062.1	2034.1	1979.1	1912.1	1812.1	1760.1	1763.1	1765.1	1711.1
27.5°	2180.1	2200.1	2195.1	2174.1	2138.1	2053.1	1933.1	1899.1	1896.1	1893.1	1809.1
30°	2309.1	2324.1	2334.1	2329.1	2300.1	2220.1	2113.1	2088.1	2096.1	2090.1	1945.1
32.5°	2414.1	2440.1	2468.1	2474.1	2466.1	2395.1	2317.1	2330.1	2340.1	2411.1	2324.1
35°	2504.1	2532.1	2578.1	2626.1	2635.1	2607.1	2568.1	2663.1	2692.1	2837.1	2745.1
37.5°	2598.1	2622.1	2668.1	2744.1	2794.1	2809.1	2847.1	2997.1	3067.1	3192.1	3021.1
40°	2641.1	2665.1	2745.1	2841.1	2945.1	3029.1	3105.1	3279.1	3357.1	3395.1	3173.1
42.5°	2598.1	2621.1	2750.1	2931.1	3072.1	3258.1	3344.1	3518.1	3570.1	3566.1	3360.1
45°	2556.1	2578.1	2713.1	2954.1	3187.1	3469.1	3542.1	3737.1	3775.1	3727.1	3468.1
47.5°	2502.1	2532.1	2672.1	2940.1	3290.1	3660.1	3727.1	3893.2	3927.2	3856.2	3592.1
50°	2436.1	2462.1	2625.1	2918.1	3358.1	3803.1	3874.2	4039.2	4048.2	3982.2	3704.1
52.5°	2360.1	2374.1	2551.1	2874.1	3417.1	3908.2	3989.2	4162.2	4183.2	4165.2	3837.1
55°	2247.1	2272.1	2462.1	2805.1	3421.1	3963.2	4078.2	4336.2	4374.2	4332.2	3918.2
57.5°	2128.1	2155.1	2352.1	2709.1	3362.1	3998.2	4240.2	4562.2	4637.2	4502.2	3984.2
60°	1997.1	2021.1	2215.1	2567.1	3257.1	4048.2	4407.2	4827.2	4874.2	4647.2	4028.2
62.5°	1845.1	1864.1	2049.1	2395.1	3096.1	4035.2	4551.2	5040.2	5055.2	4777.2	4024.2
65°	1660.1	1659.1	1831.1	2155.1	2832.1	3931.2	4577.2	5147.2	5165.2	4861.2	3988.2
67.5°	1416.1	1413.1	1557.1	1862.1	2499.1	3660.1	4508.2	5247.2	5290.2	4949.2	3883.2
70°	1110.0	1114.0	1223.0	1495.1	2028.1	3247.1	4326.2	5180.2	5189.2	4780.2	3611.1
72.5°	785.0	783.0	857.0	1041.0	1499.1	2535.1	3802.1	4723.2	4751.2	4362.2	3146.1
75°	360.0	375.0	560.0	636.0	905.0	1726.1	3128.1	4013.2	4067.2	3755.1	2453.1
77.5°	67.0	69.0	120.0	242.0	354.0	623.0	1869.1	2718.1	2831.1	2559.1	1382.1
80°	53.0	54.0	71.0	116.0	148.0	280.0	615.0	1120.0	1145.0	998.0	498.0
82.5°	39.0	40.0	53.0	75.0	69.0	121.0	256.0	326.0	346.0	322.0	198.0
85°	23.0	24.0	31.0	37.0	36.0	48.0	43.0	39.0	35.0	29.0	25.0
87.5°	6.0	8.0	13.0	13.0	10.0	9.0	8.0	7.0	8.0	7.0	7.0
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°	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1	1290.1
2.5°	1299.1	1298.1	1301.1	1309.1	1316.1	1317.1	1327.1	1340.1	1334.1	1351.1	1345.1
5°	1313.1	1316.1	1327.1	1340.1	1352.1	1362.1	1377.1	1399.1	1392.1	1408.1	1402.1
7.5°	1345.1	1350.1	1367.1	1380.1	1394.1	1391.1	1404.1	1417.1	1401.1	1418.1	1410.1
10°	1383.1	1389.1	1399.1	1404.1	1400.1	1398.1	1395.1	1393.1	1372.1	1384.1	1379.1
12.5°	1417.1	1418.1	1415.1	1402.1	1393.1	1369.1	1358.1	1353.1	1321.1	1330.1	1324.1
15°	1450.1	1436.1	1421.1	1391.1	1366.1	1329.1	1305.1	1284.0	1254.0	1266.0	1254.0
17.5°	1486.1	1465.1	1426.1	1382.1	1331.1	1277.0	1238.0	1204.0	1159.0	1157.0	1153.0
20°	1532.1	1501.1	1438.1	1366.1	1293.1	1212.0	1150.0	1093.0	1025.0	1016.0	998.0
22.5°	1590.1	1544.1	1456.1	1345.1	1246.0	1144.0	1039.0	945.0	859.0	832.0	822.0
25°	1657.1	1600.1	1466.1	1326.1	1201.0	1045.0	902.0	780.0	679.0	650.0	642.0
27.5°	1741.1	1671.1	1481.1	1298.1	1129.0	924.0	738.0	603.0	513.0	466.0	459.0
30°	1857.1	1750.1	1502.1	1270.0	1042.0	782.0	572.0	415.0	330.0	302.0	297.0
32.5°	2173.1	1938.1	1525.1	1220.0	927.0	624.0	380.0	265.0	208.0	185.0	183.0
35°	2574.1	2282.1	1609.1	1163.0	788.0	433.0	236.0	158.0	127.0	118.0	118.0
37.5°	2833.1	2549.1	1749.1	1083.0	605.0	265.0	142.0	103.0	97.0	96.0	96.0
40°	2969.1	2667.1	1850.1	973.0	405.0	154.0	100.0	89.0	87.0	85.0	85.0
42.5°	3142.1	2768.1	1937.1	824.0	235.0	108.0	88.0	81.0	78.0	76.0	76.0
45°	3238.1	2878.1	1882.1	647.0	134.0	97.0	81.0	73.0	70.0	70.0	70.0
47.5°	3332.1	2983.1	1812.1	465.0	114.0	89.0	76.0	68.0	65.0	67.0	67.0
50°	3439.1	3054.1	1701.1	348.0	108.0	83.0	69.0	62.0	60.0	63.0	63.0
52.5°	3539.1	3061.1	1523.1	278.0	100.0	77.0	64.0	57.0	55.0	57.0	57.0
55°	3568.1	3039.1	1472.1	221.0	95.0	71.0	60.0	53.0	48.0	48.0	47.0
57.5°	3561.1	2996.1	1348.1	187.0	89.0	65.0	55.0	47.0	41.0	39.0	39.0
60°	3537.1	2936.1	1217.0	163.0	83.0	60.0	49.0	40.0	34.0	32.0	32.0
62.5°	3507.1	2823.1	1032.0	142.0	77.0	58.0	41.0	33.0	29.0	27.0	27.0
65°	3381.1	2647.1	826.0	121.0	71.0	51.0	36.0	29.0	25.0	23.0	23.0
67.5°	3172.1	2379.1	597.0	103.0	66.0	43.0	32.0	25.0	21.0	20.0	19.0
70°	2860.1	2009.1	370.0	89.0	57.0	39.0	28.0	22.0	19.0	16.0	16.0
72.5°	2384.1	1573.1	194.0	70.0	45.0	33.0	25.0	20.0	16.0	14.0	13.0
75°	1676.1	970.0	140.0	54.0	31.0	27.0	21.0	17.0	14.0	12.0	11.0
77.5°	809.0	334.0	98.0	40.0	22.0	20.0	16.0	14.0	11.0	10.0	10.0
80°	296.0	190.0	70.0	29.0	18.0	16.0	12.0	11.0	9.0	8.0	8.0
82.5°	133.0	90.0	40.0	19.0	13.0	12.0	9.0	7.0	7.0	7.0	7.0
85°	22.0	19.0	13.0	9.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0
87.5°	6.0	6.0	5.0	5.0	4.0	3.0	2.0	2.0	2.0	3.0	3.0
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)