

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: P509262

Luminaire Tested: **VERD-CA2-60-730-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509262
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-CA2-60-730-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8484 lumens
Efficiency: N/A
Efficacy: 133.8 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

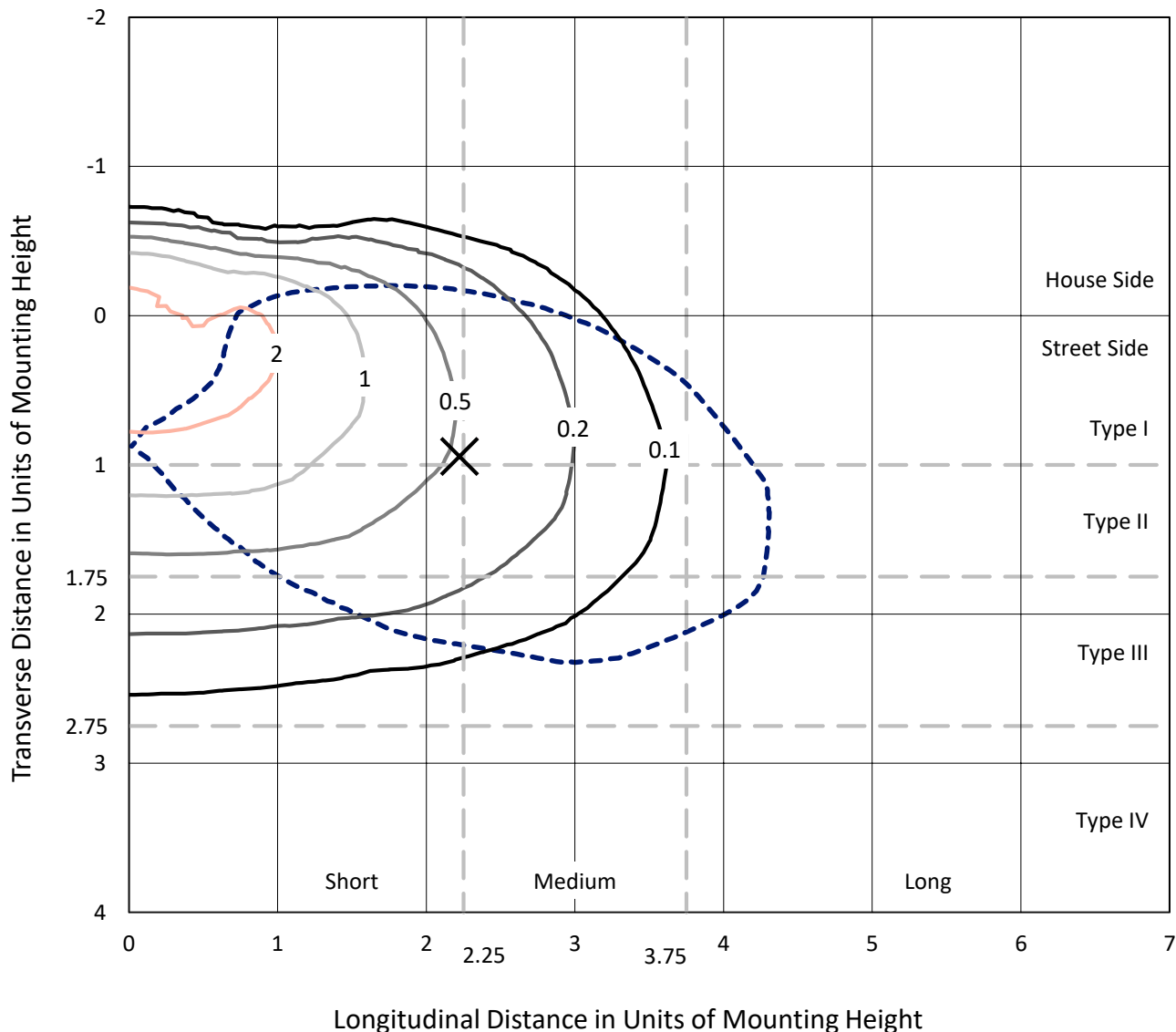
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

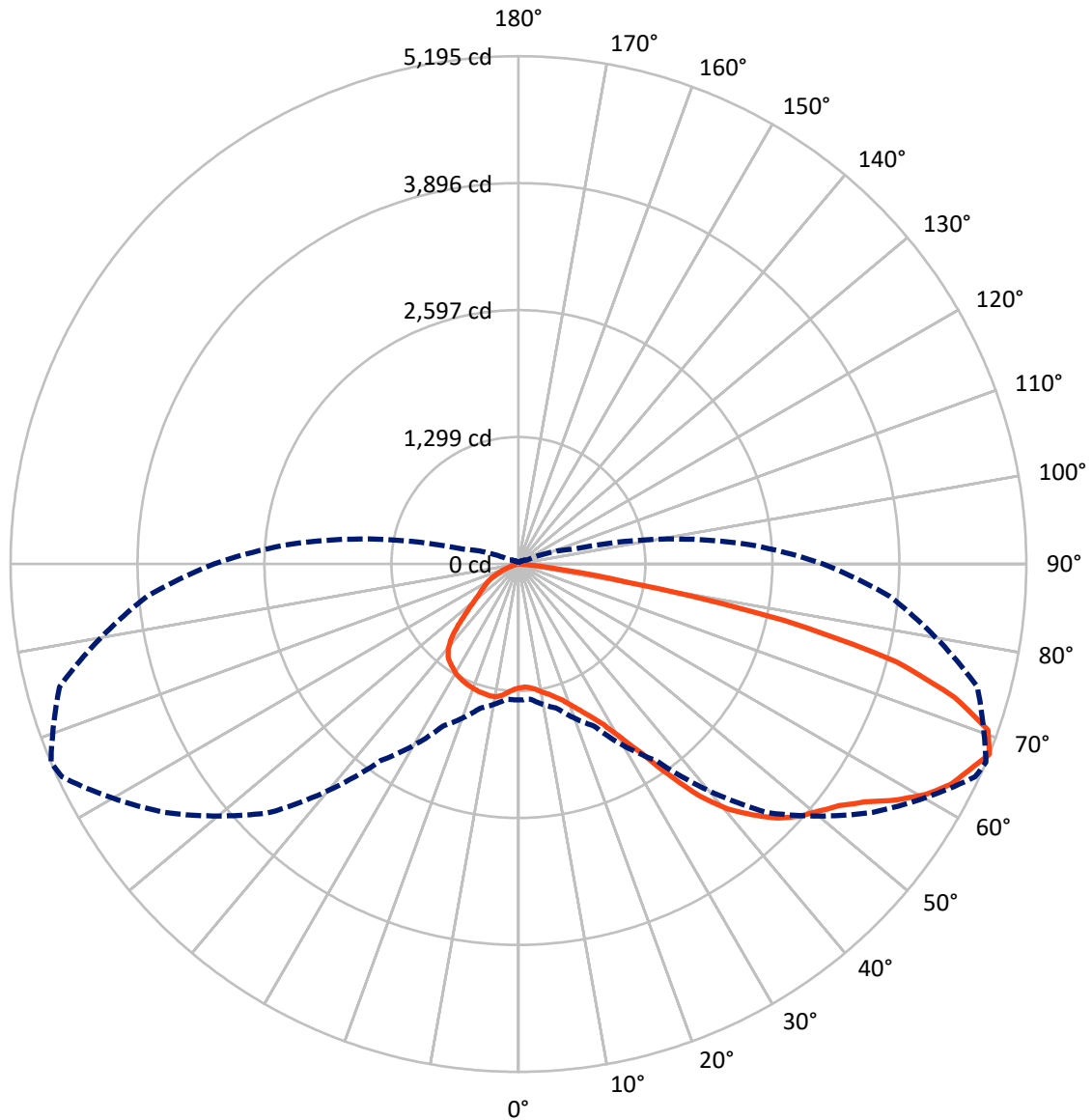
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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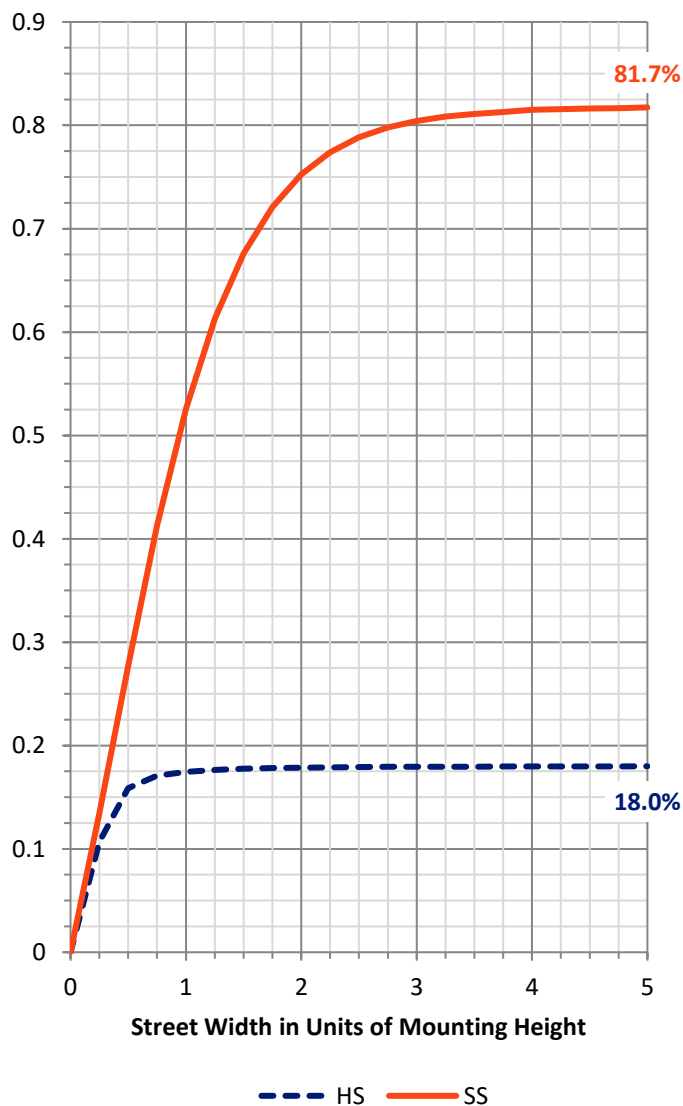
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1545.8	0.0	1545.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	6938.2	0.0	6938.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	8484.0	0.0	8484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.5
10°-20°	397.5	4.7
20°-30°	678.3	8.0
30°-40°	1055.7	12.4
40°-50°	1490.3	17.6
50°-60°	1794.9	21.2
60°-70°	1854.9	21.9
70°-80°	1021.8	12.0
80°-90°	63.7	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°	8484.0	100.0
0°-180°	8484.0	100.0

Coefficient of Utilization



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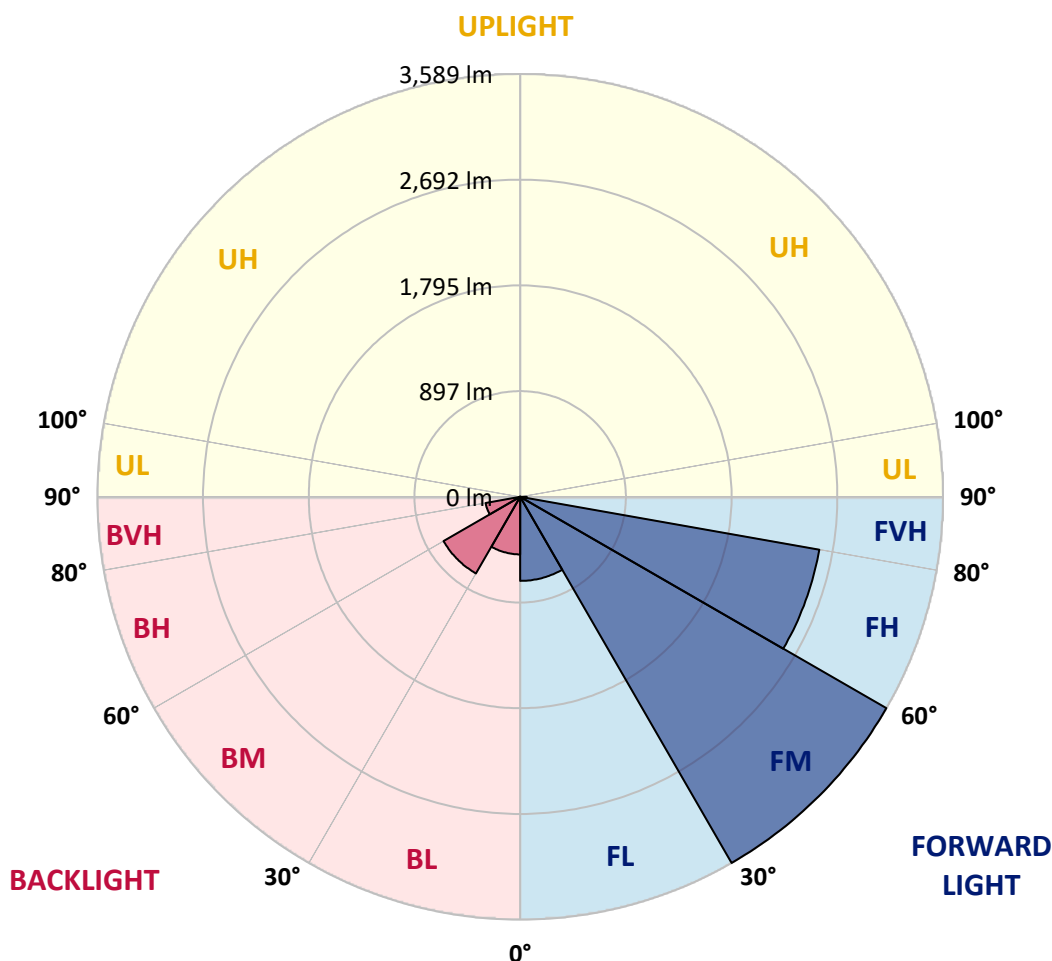
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.9	8.4			
FM	(30°-60°)	3589.4	42.3			
FH	(60°-80°)	2578.8	30.4			G2/5000
FVH	(80°-90°)	56.0	0.7			G1/100
BL	(0°-30°)	488.8	5.8	B1/500		
BM	(30°-60°)	751.5	8.9	B1/1000		
BH	(60°-80°)	297.9	3.5	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8
2.5°	1255.0	1267.7	1267.7	1263.8	1265.8	1256.9	1251.0	1257.9	1259.9	1265.8	1273.6
5°	1279.5	1294.3	1293.3	1286.4	1280.5	1272.6	1264.8	1270.7	1271.7	1273.6	1283.5
7.5°	1331.6	1345.3	1339.4	1332.6	1329.6	1311.9	1295.2	1294.3	1296.2	1302.1	1312.9
10°	1399.3	1410.1	1408.2	1397.4	1389.5	1363.0	1339.4	1330.6	1331.6	1333.5	1352.2
12.5°	1475.9	1490.6	1479.8	1465.1	1451.4	1413.1	1380.7	1367.9	1365.9	1370.8	1386.6
15°	1551.5	1567.2	1559.4	1550.6	1519.1	1476.9	1435.7	1415.0	1413.1	1413.1	1422.9
17.5°	1650.7	1656.6	1651.7	1638.9	1603.6	1550.6	1501.5	1471.0	1466.1	1469.0	1471.0
20°	1760.7	1771.5	1765.6	1751.9	1700.8	1643.8	1582.0	1545.6	1542.7	1545.6	1527.0
22.5°	1894.2	1898.2	1895.2	1872.6	1826.5	1750.9	1669.4	1628.1	1628.1	1631.1	1592.8
25°	2008.2	2031.7	2024.8	1997.4	1943.3	1877.6	1779.4	1728.3	1731.2	1733.2	1680.2
27.5°	2140.7	2160.4	2155.5	2134.8	2099.5	2016.0	1898.2	1864.8	1861.8	1858.9	1776.4
30°	2267.4	2282.1	2291.9	2287.0	2258.6	2180.0	2074.9	2050.4	2058.2	2052.3	1910.0
32.5°	2370.5	2396.0	2423.5	2429.4	2421.6	2351.8	2275.3	2288.0	2297.8	2367.6	2282.1
35°	2458.9	2486.4	2531.6	2578.7	2587.5	2560.0	2521.7	2615.0	2643.5	2785.9	2695.5
37.5°	2551.2	2574.8	2619.9	2694.6	2743.7	2758.4	2795.7	2943.0	3011.7	3134.5	2966.6
40°	2593.4	2617.0	2695.5	2789.8	2891.9	2974.4	3049.1	3219.9	3296.5	3333.8	3115.8
42.5°	2551.2	2573.8	2700.5	2878.2	3016.7	3199.3	3283.7	3454.6	3505.7	3501.8	3299.5
45°	2509.9	2531.6	2664.1	2900.8	3129.6	3406.5	3478.2	3669.7	3707.0	3659.8	3405.5
47.5°	2456.9	2486.4	2623.9	2887.0	3230.7	3594.1	3659.8	3822.9	3856.2	3786.5	3527.3
50°	2392.1	2417.6	2577.7	2865.4	3297.5	3734.5	3804.2	3966.2	3975.1	3910.3	3637.3
52.5°	2317.5	2331.2	2505.0	2822.2	3355.4	3837.6	3917.1	4087.0	4107.6	4090.0	3767.9
55°	2206.5	2231.1	2417.6	2754.5	3359.4	3891.6	4004.5	4257.9	4295.2	4253.9	3847.4
57.5°	2089.7	2116.2	2309.6	2660.2	3301.4	3926.0	4163.6	4479.8	4553.5	4420.9	3912.2
60°	1961.0	1984.6	2175.1	2520.7	3198.3	3975.1	4327.6	4740.0	4786.2	4563.3	3955.4
62.5°	1811.8	1830.4	2012.1	2351.8	3040.2	3962.3	4469.0	4949.2	4963.9	4690.9	3951.5
65°	1630.1	1629.1	1798.0	2116.2	2781.0	3860.2	4494.5	5054.3	5071.9	4773.4	3916.1
67.5°	1390.5	1387.5	1528.9	1828.5	2454.0	3594.1	4426.8	5152.5	5194.7	4859.8	3813.0
70°	1090.0	1093.9	1201.0	1468.1	1991.5	3188.5	4248.1	5086.7	5095.5	4693.9	3545.9
72.5°	770.9	768.9	841.6	1022.2	1472.0	2489.3	3733.5	4637.9	4665.4	4283.4	3089.3
75°	353.5	368.2	549.9	624.5	888.7	1694.9	3071.6	3940.7	3993.7	3687.3	2408.8
77.5°	65.8	67.8	117.8	237.6	347.6	611.8	1835.3	2669.0	2780.0	2512.9	1357.1
80°	52.0	53.0	69.7	113.9	145.3	275.0	603.9	1099.8	1124.4	980.0	489.0
82.5°	38.3	39.3	52.0	73.6	67.8	118.8	251.4	320.1	339.8	316.2	194.4
85°	22.6	23.6	30.4	36.3	35.4	47.1	42.2	38.3	34.4	28.5	24.5
87.5°	5.9	7.9	12.8	12.8	9.8	8.8	7.9	6.9	7.9	6.9	6.9
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°	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8	1266.8
2.5°	1275.6	1274.6	1277.6	1285.4	1292.3	1293.3	1303.1	1315.9	1310.0	1326.7	1320.8
5°	1289.3	1292.3	1303.1	1315.9	1327.6	1337.5	1352.2	1373.8	1366.9	1382.6	1376.7
7.5°	1320.8	1325.7	1342.4	1355.1	1368.9	1365.9	1378.7	1391.5	1375.8	1392.5	1384.6
10°	1358.1	1364.0	1373.8	1378.7	1374.8	1372.8	1369.9	1367.9	1347.3	1359.1	1354.2
12.5°	1391.5	1392.5	1389.5	1376.7	1367.9	1344.3	1333.5	1328.6	1297.2	1306.0	1300.1
15°	1423.9	1410.1	1395.4	1365.9	1341.4	1305.1	1281.5	1260.9	1231.4	1243.2	1231.4
17.5°	1459.2	1438.6	1400.3	1357.1	1307.0	1254.0	1215.7	1182.3	1138.1	1136.2	1132.2
20°	1504.4	1474.0	1412.1	1341.4	1269.7	1190.2	1129.3	1073.3	1006.5	997.7	980.0
22.5°	1561.4	1516.2	1429.8	1320.8	1223.6	1123.4	1020.3	928.0	843.5	817.0	807.2
25°	1627.1	1571.2	1439.6	1302.1	1179.4	1026.2	885.7	765.9	666.8	638.3	630.4
27.5°	1709.6	1640.9	1454.3	1274.6	1108.7	907.4	724.7	592.1	503.8	457.6	450.7
30°	1823.5	1718.5	1474.9	1247.1	1023.2	767.9	561.7	407.5	324.1	296.6	291.6
32.5°	2133.8	1903.1	1497.5	1198.0	910.3	612.8	373.2	260.2	204.3	181.7	179.7
35°	2527.6	2240.9	1580.0	1142.0	773.8	425.2	231.7	155.2	124.7	115.9	115.9
37.5°	2782.0	2503.1	1717.5	1063.5	594.1	260.2	139.4	101.1	95.3	94.3	94.3
40°	2915.5	2618.9	1816.7	955.5	397.7	151.2	98.2	87.4	85.4	83.5	83.5
42.5°	3085.4	2718.1	1902.1	809.2	230.8	106.1	86.4	79.5	76.6	74.6	74.6
45°	3179.7	2826.1	1848.1	635.3	131.6	95.3	79.5	71.7	68.7	68.7	68.7
47.5°	3272.0	2929.3	1779.4	456.6	111.9	87.4	74.6	66.8	63.8	65.8	65.8
50°	3377.0	2999.0	1670.4	341.7	106.1	81.5	67.8	60.9	58.9	61.9	61.9
52.5°	3475.2	3005.8	1495.6	273.0	98.2	75.6	62.8	56.0	54.0	56.0	56.0
55°	3503.7	2984.2	1445.5	217.0	93.3	69.7	58.9	52.0	47.1	47.1	46.2
57.5°	3496.8	2942.0	1323.7	183.6	87.4	63.8	54.0	46.2	40.3	38.3	38.3
60°	3473.3	2883.1	1195.1	160.1	81.5	58.9	48.1	39.3	33.4	31.4	31.4
62.5°	3443.8	2772.1	1013.4	139.4	75.6	57.0	40.3	32.4	28.5	26.5	26.5
65°	3320.1	2599.3	811.1	118.8	69.7	50.1	35.4	28.5	24.5	22.6	22.6
67.5°	3114.8	2336.1	586.2	101.1	64.8	42.2	31.4	24.5	20.6	19.6	18.7
70°	2808.5	1972.8	363.3	87.4	56.0	38.3	27.5	21.6	18.7	15.7	15.7
72.5°	2341.0	1544.7	190.5	68.7	44.2	32.4	24.5	19.6	15.7	13.7	12.8
75°	1645.8	952.5	137.5	53.0	30.4	26.5	20.6	16.7	13.7	11.8	10.8
77.5°	794.4	328.0	96.2	39.3	21.6	19.6	15.7	13.7	10.8	9.8	9.8
80°	290.7	186.6	68.7	28.5	17.7	15.7	11.8	10.8	8.8	7.9	7.9
82.5°	130.6	88.4	39.3	18.7	12.8	11.8	8.8	6.9	6.9	6.9	6.9
85°	21.6	18.7	12.8	8.8	6.9	5.9	5.9	4.9	4.9	4.9	4.9
87.5°	5.9	5.9	4.9	4.9	3.9	2.9	2.0	2.0	2.0	2.9	2.9
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)