

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: P400536

Luminaire Tested: **ARCH-L-PA3-90-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11387 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

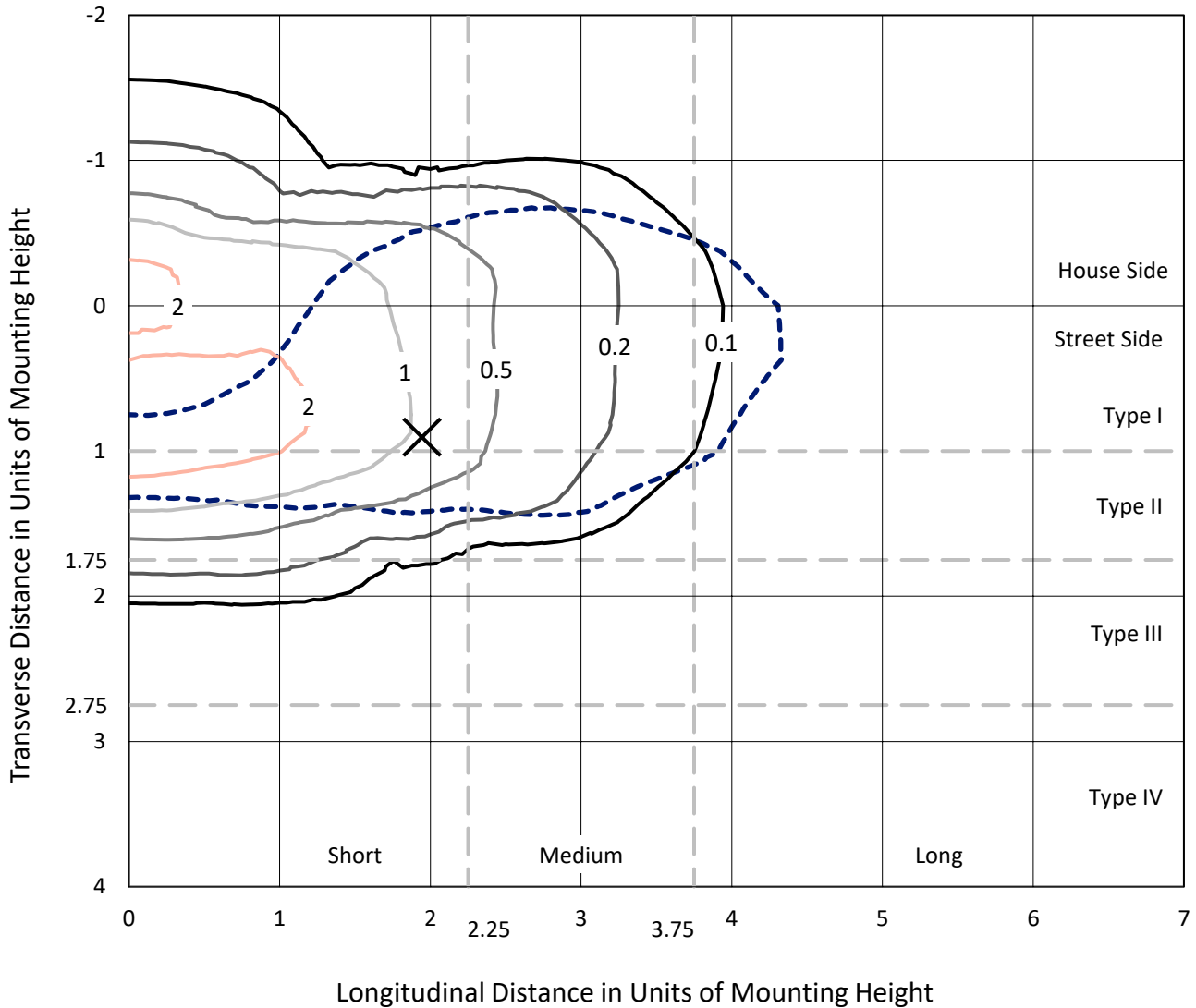
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

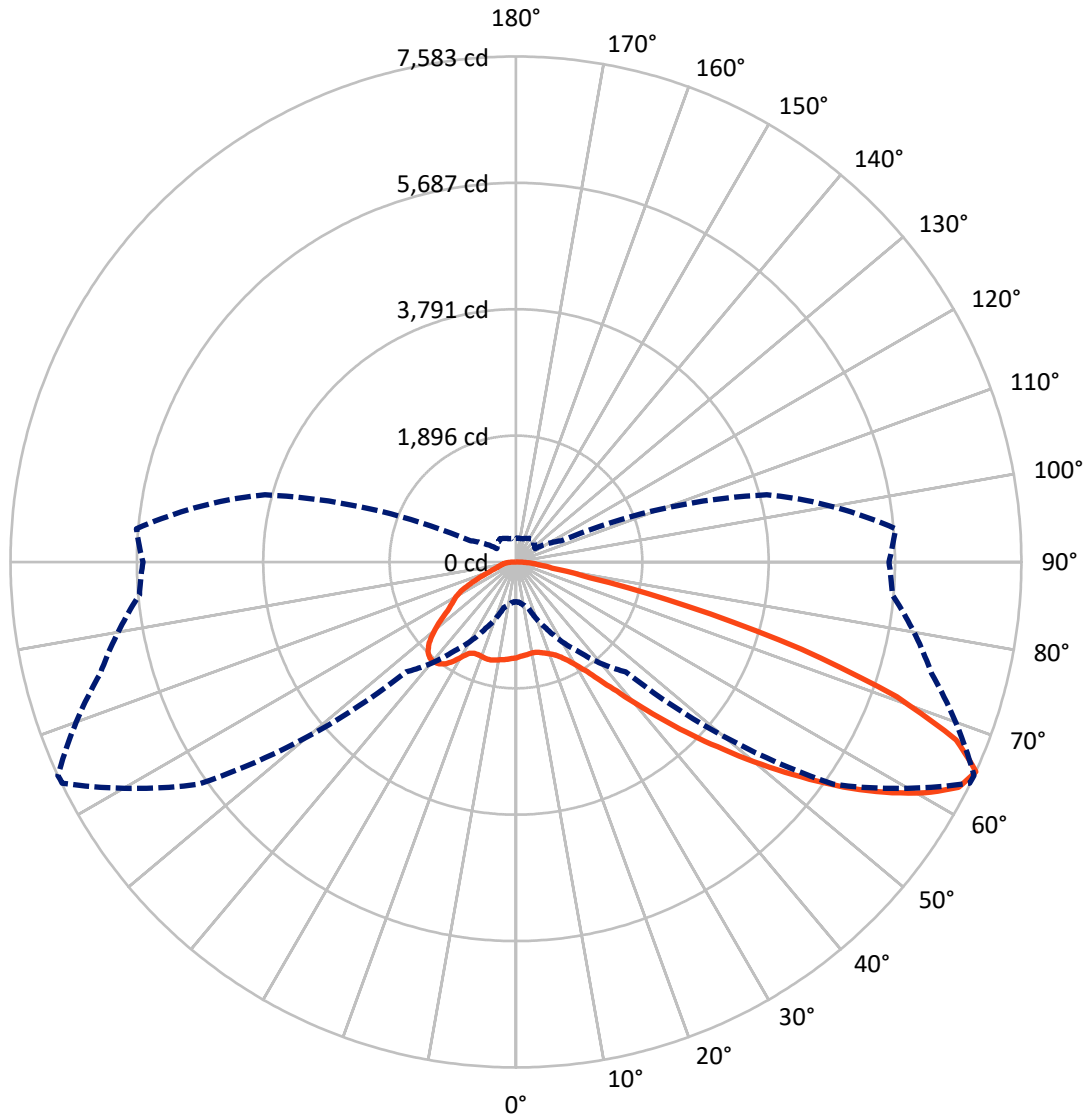
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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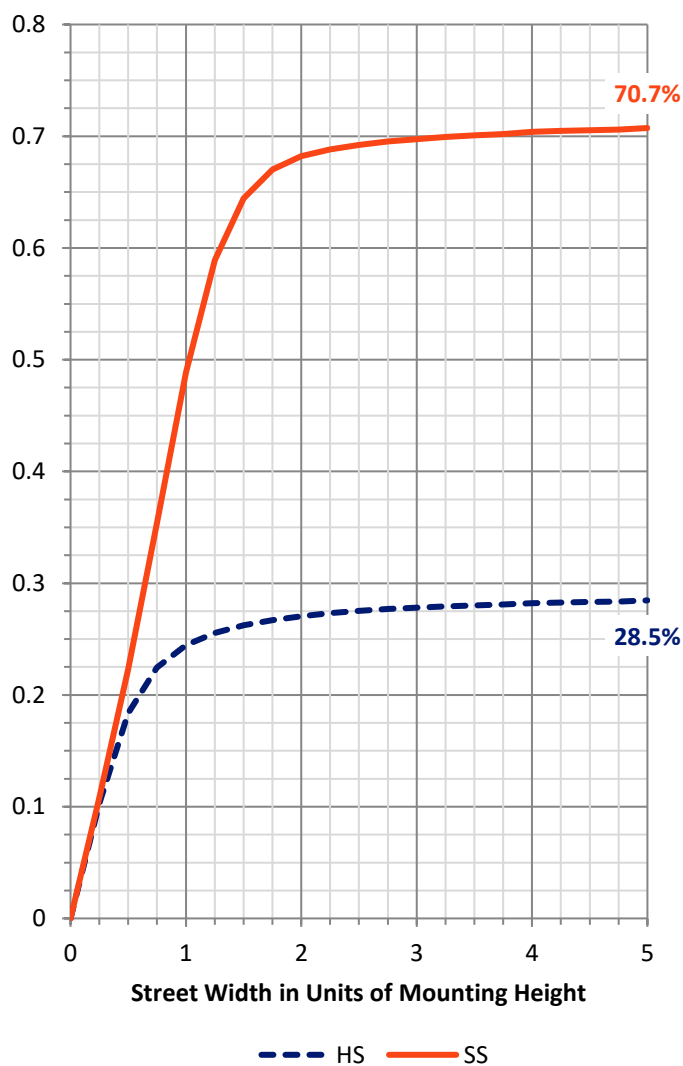
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.2	0.0	3292.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	8094.9	0.0	8094.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	11387.0	0.0	11387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.2
10°-20°	409.3	3.6
20°-30°	727.0	6.4
30°-40°	1229.9	10.8
40°-50°	2141.0	18.8
50°-60°	2766.8	24.3
60°-70°	2421.1	21.3
70°-80°	1316.9	11.6
80°-90°	237.9	2.1
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°	11387.0	100.0
0°-180°	11387.0	100.0

Coefficient of Utilization



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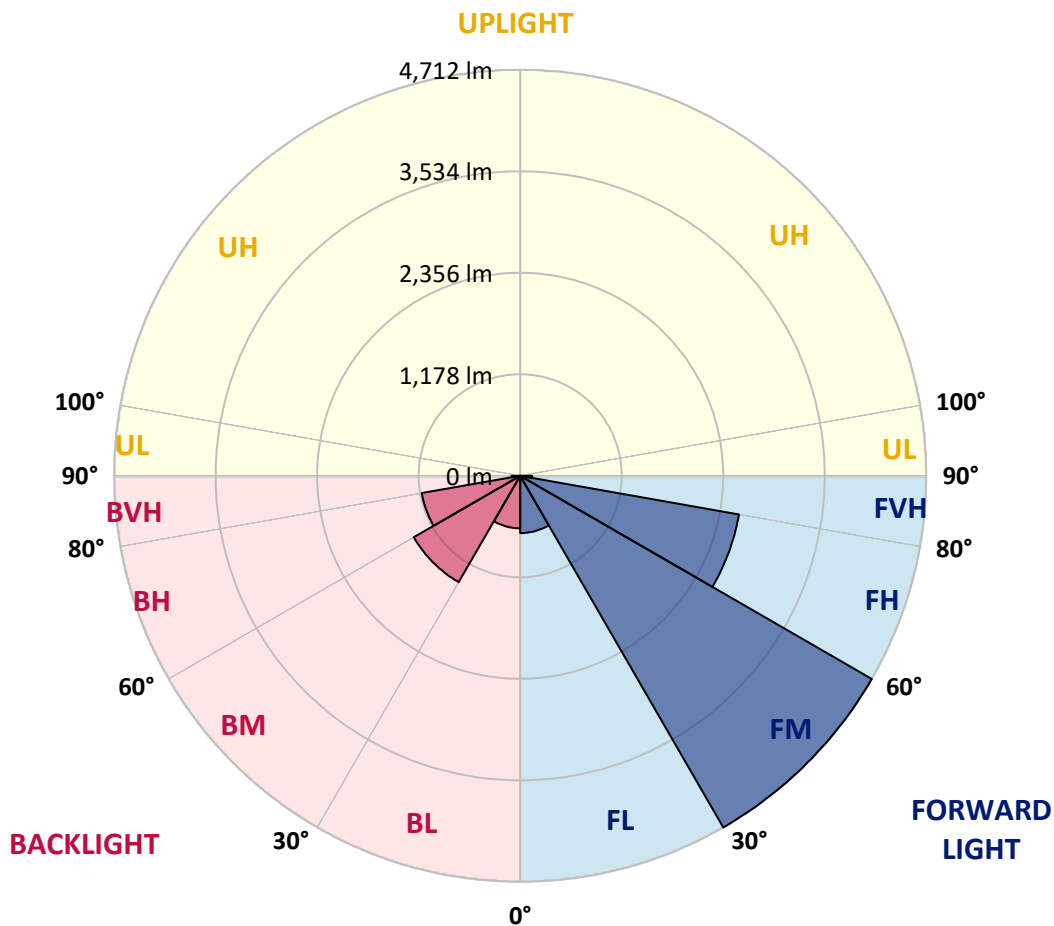
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.4	5.8			
FM (30°-60°)	4712.3	41.4			
FH (60°-80°)	2578.2	22.6			G2/5000
FVH (80°-90°)	140.0	1.2			G2/225
BL (0°-30°)	608.9	5.3	B2/1000		
BM (30°-60°)	1425.4	12.5	B2/2500		
BH (60°-80°)	1159.9	10.2	B3/2500		G3/2500
BVH (80°-90°)	97.9	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1413.4	1411.9	1408.9	1411.9	1413.4	1416.4	1414.9	1417.9	1416.4	1420.9	1428.4
5°	1377.4	1374.4	1372.9	1380.4	1384.9	1392.4	1395.4	1405.9	1404.4	1411.9	1423.9
7.5°	1336.9	1336.9	1335.4	1344.4	1350.4	1363.9	1374.4	1392.4	1393.9	1407.4	1420.9
10°	1305.5	1307.0	1305.5	1313.0	1321.9	1338.4	1356.4	1381.9	1383.4	1402.9	1416.4
12.5°	1293.5	1293.5	1293.5	1304.0	1316.0	1338.4	1359.4	1386.4	1389.4	1410.4	1422.4
15°	1310.0	1311.5	1308.5	1319.0	1332.4	1359.4	1378.9	1407.4	1410.4	1429.9	1437.4
17.5°	1368.4	1374.4	1366.9	1372.9	1369.9	1390.9	1408.9	1437.4	1438.9	1455.3	1458.3
20°	1483.8	1489.8	1477.8	1470.3	1443.4	1441.9	1449.3	1471.8	1471.8	1482.3	1474.8
22.5°	1662.2	1668.2	1647.2	1618.7	1554.3	1522.8	1506.3	1516.8	1515.3	1519.8	1500.3
25°	1899.0	1897.5	1872.0	1819.6	1716.1	1639.7	1599.2	1582.7	1582.7	1573.7	1549.8
27.5°	2192.8	2170.3	2125.3	2062.4	1918.5	1812.1	1725.1	1683.2	1675.7	1648.7	1603.7
30°	2506.0	2489.5	2425.1	2333.6	2167.3	2030.9	1887.0	1803.1	1798.6	1740.1	1672.7
32.5°	2874.7	2847.7	2775.8	2666.4	2467.0	2275.2	2095.3	1967.9	1960.4	1867.5	1774.6
35°	3348.3	3325.9	3186.5	3077.1	2820.8	2569.0	2356.1	2186.8	2180.8	2066.9	1948.5
37.5°	3916.4	3857.9	3723.0	3517.7	3247.9	2949.7	2679.9	2467.0	2459.5	2333.6	2183.8
40°	4423.0	4370.5	4250.6	4061.8	3772.5	3441.3	3075.6	2817.8	2810.3	2657.4	2468.5
42.5°	4797.7	4761.7	4683.8	4574.4	4367.5	4166.7	3580.7	3241.9	3228.4	3030.6	2795.3
45°	5015.0	4986.5	4941.6	4968.6	4965.6	4928.1	4183.2	3747.0	3703.6	3447.3	3159.5
47.5°	4962.6	4937.1	4955.1	5164.9	5454.2	5671.5	4884.6	4264.1	4205.7	3871.4	3547.7
50°	4583.4	4593.9	4688.3	5090.0	5738.9	6221.6	5662.5	4853.1	4775.2	4298.6	3916.4
52.5°	3892.4	3917.9	4147.2	4709.3	5707.5	6578.3	6365.4	5461.7	5358.2	4715.3	4252.1
55°	3092.0	3156.5	3453.3	4043.8	5296.8	6603.8	6896.0	6073.2	5959.3	5106.4	4544.4
57.5°	2287.2	2383.1	2726.3	3268.9	4509.9	6200.6	7161.3	6657.7	6519.8	5494.6	4853.1
60°	1450.8	1509.3	1905.0	2545.0	3451.8	5214.4	7126.8	7155.3	7035.4	5881.3	5175.4
62.5°	926.3	954.7	1154.1	1815.1	2413.1	3860.9	6750.6	7531.5	7450.6	6233.5	5481.1
65°	595.0	607.0	708.9	1116.6	1642.7	2330.6	5813.9	7572.0	7582.5	6453.9	5670.0
67.5°	484.1	490.1	527.6	689.5	1161.6	1287.5	4049.8	6996.4	7123.8	6396.9	5605.5
70°	440.6	448.1	487.1	550.1	899.3	888.8	1960.4	5854.3	6062.7	6068.7	5319.3
72.5°	371.7	382.2	434.7	520.1	695.4	701.4	830.3	4169.7	4476.9	5424.2	4889.1
75°	310.3	316.2	361.2	458.6	589.0	560.6	583.0	2210.7	2654.4	4349.5	4432.0
77.5°	251.8	257.8	290.8	365.7	523.1	436.2	458.6	915.8	1131.6	2952.7	3622.6
80°	179.9	185.9	223.3	284.8	395.7	392.7	340.2	505.1	548.6	1596.2	2353.1
82.5°	128.9	133.4	169.4	203.8	274.3	394.2	256.3	343.2	359.7	707.4	948.7
85°	86.9	86.9	116.9	134.9	176.9	248.8	206.8	232.3	242.8	335.7	256.3
87.5°	37.5	37.5	62.9	68.9	92.9	115.4	154.4	116.9	119.9	181.4	104.9
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°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1432.9	1434.4	1437.4	1446.4	1452.3	1461.3	1465.8	1471.8	1471.8	1468.8	1470.3
5°	1429.9	1434.4	1444.9	1461.3	1471.8	1488.3	1500.3	1509.3	1512.3	1509.3	1510.8
7.5°	1428.4	1435.9	1453.8	1477.8	1492.8	1513.8	1530.3	1540.8	1548.3	1545.3	1546.8
10°	1423.9	1435.9	1458.3	1488.3	1510.8	1531.8	1546.8	1551.3	1555.8	1552.8	1551.3
12.5°	1429.9	1443.4	1467.3	1503.3	1528.8	1545.3	1549.8	1542.3	1531.8	1525.8	1524.3
15°	1441.9	1455.3	1479.3	1516.8	1539.3	1545.3	1534.8	1510.8	1486.8	1473.3	1471.8
17.5°	1458.3	1467.3	1486.8	1519.8	1537.8	1530.3	1509.3	1480.8	1462.8	1452.3	1453.8
20°	1468.8	1468.8	1483.8	1509.3	1524.3	1518.3	1492.8	1461.3	1432.9	1419.4	1414.9
22.5°	1483.8	1476.3	1477.8	1500.3	1521.3	1512.3	1458.3	1402.9	1362.4	1347.4	1345.9
25°	1524.3	1503.3	1489.8	1503.3	1552.8	1479.3	1371.4	1307.0	1269.5	1256.0	1257.5
27.5°	1573.7	1545.3	1516.8	1539.3	1578.2	1404.4	1260.5	1187.1	1164.6	1154.1	1158.6
30°	1623.2	1585.7	1548.3	1629.2	1560.3	1287.5	1118.1	1046.2	1026.7	1019.2	1025.2
32.5°	1714.6	1653.2	1608.2	1749.1	1504.8	1154.1	963.7	897.8	879.8	870.8	867.8
35°	1867.5	1789.6	1744.6	1854.0	1426.9	1005.7	822.8	776.4	756.9	737.4	734.4
37.5°	2087.8	1993.4	1952.9	1914.0	1317.5	858.8	714.9	683.5	655.0	625.0	623.5
40°	2351.6	2228.7	2198.8	1941.0	1166.1	720.9	640.0	610.0	574.0	545.6	547.1
42.5°	2655.9	2498.5	2434.1	1933.5	978.7	647.5	586.0	553.1	521.6	496.1	494.6
45°	2981.1	2802.8	2654.4	1881.0	792.9	596.5	553.1	514.1	482.6	454.1	451.1
47.5°	3340.8	3141.5	2858.2	1779.1	655.0	560.6	533.6	478.1	449.6	431.7	431.7
50°	3703.6	3465.2	3045.6	1624.7	574.0	533.6	505.1	458.6	436.2	421.2	421.2
52.5°	4013.8	3802.5	3200.0	1440.4	523.1	511.1	485.6	449.6	425.7	412.2	410.7
55°	4315.1	4115.7	3337.8	1257.5	481.1	481.1	481.1	442.1	415.2	403.2	401.7
57.5°	4614.8	4445.5	3481.7	1137.6	443.6	455.6	472.1	433.2	406.2	395.7	394.2
60°	4953.6	4841.2	3648.1	1053.7	410.7	428.7	460.1	422.7	391.2	382.2	380.7
62.5°	5313.3	5313.3	3799.5	935.3	380.7	406.2	442.1	409.2	377.7	370.2	368.7
65°	5595.1	5716.5	3896.9	758.4	350.7	383.7	421.2	391.2	359.7	358.2	355.2
67.5°	5628.0	5818.4	3835.5	572.5	323.7	359.7	400.2	371.7	341.7	341.7	337.2
70°	5391.2	5584.6	3643.6	428.7	304.3	335.7	373.2	347.7	319.2	322.2	314.7
72.5°	4995.5	5043.5	3167.0	338.7	281.8	310.3	340.2	320.7	295.3	295.3	284.8
75°	4473.9	4207.2	2300.7	283.3	254.8	280.3	307.3	290.8	268.3	260.8	254.8
77.5°	3561.2	3048.6	1336.9	244.3	232.3	251.8	269.8	257.8	238.3	221.8	221.8
80°	2170.3	1786.6	590.5	211.3	205.3	220.3	232.3	218.8	202.3	185.9	181.4
82.5°	825.8	689.5	286.3	181.4	179.9	188.8	197.8	184.4	172.4	164.9	142.4
85°	226.3	208.3	196.3	151.4	148.4	146.9	157.4	151.4	134.9	110.9	98.9
87.5°	85.4	97.4	106.4	92.9	98.9	91.4	104.9	95.9	85.4	55.5	49.5
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)