

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: P691393

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T2-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5459 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 42.8
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



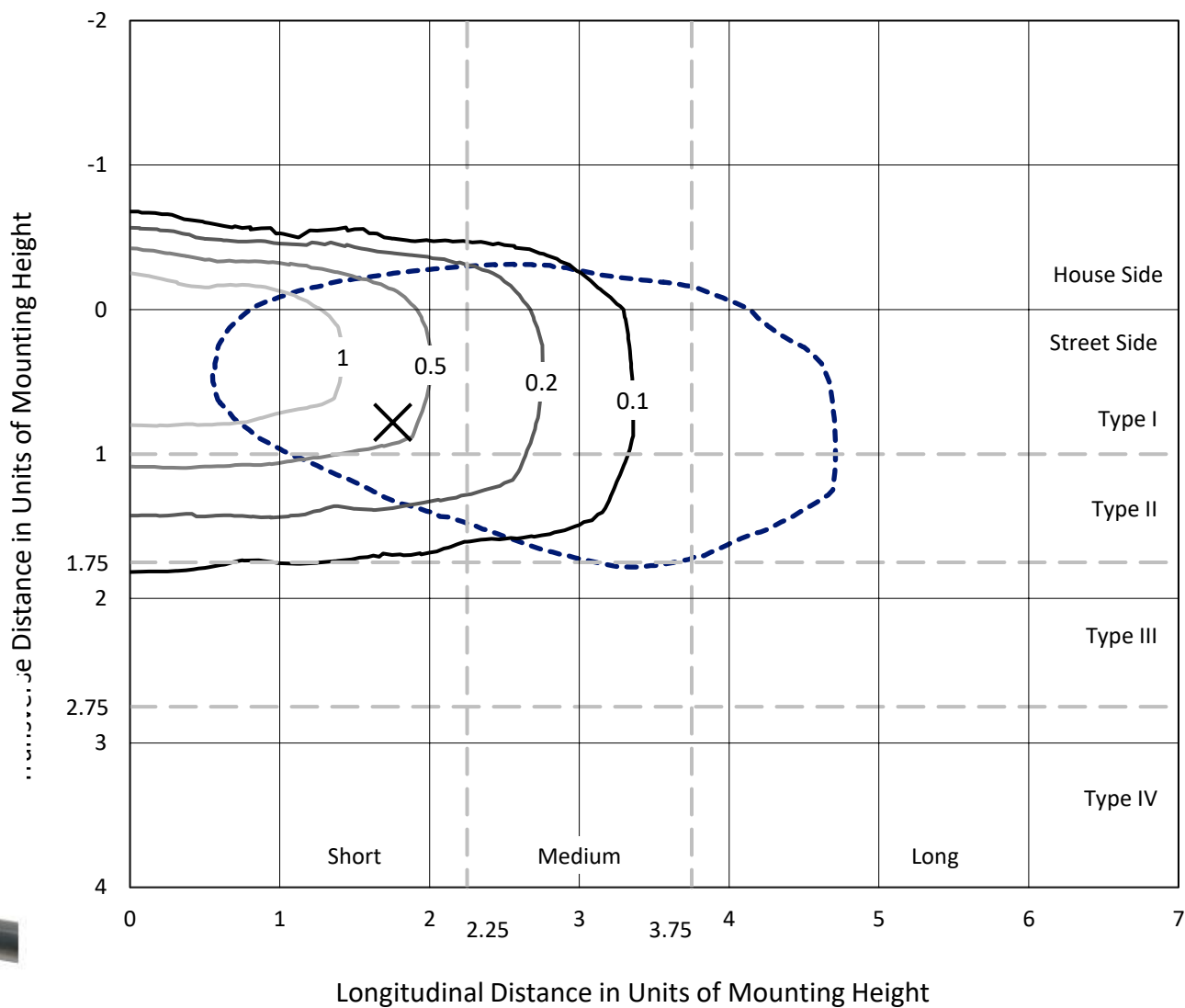
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

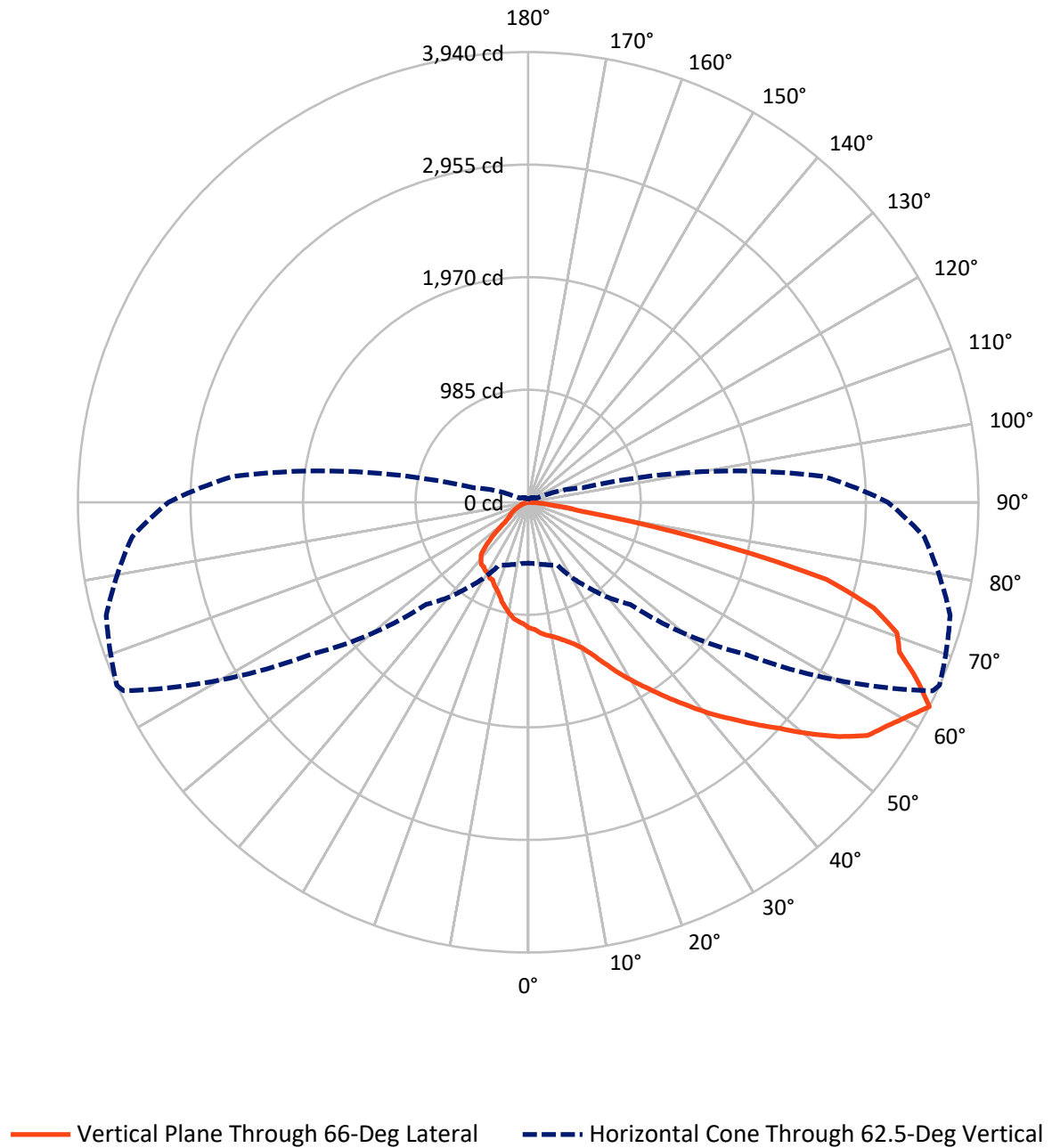


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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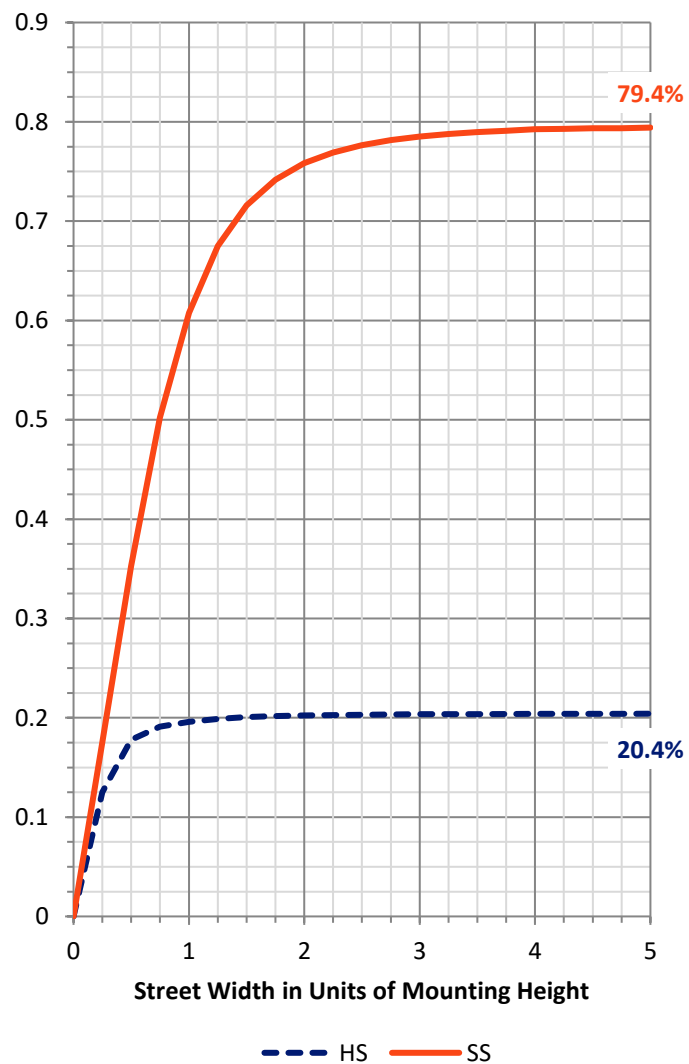
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.7	0.0	1127.7
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	4331.3	0.0	4331.3
	% Fixture	79.3	0.0	79.3
Total	Lumens	5459.0	0.0	5459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.9
10°-20°	295.5	5.4
20°-30°	484.8	8.9
30°-40°	713.3	13.1
40°-50°	940.8	17.2
50°-60°	1095.1	20.1
60°-70°	1088.2	19.9
70°-80°	673.2	12.3
80°-90°	64.4	1.2
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°	5459.0	100.0
0°-180°	5459.0	100.0

Coefficient of Utilization



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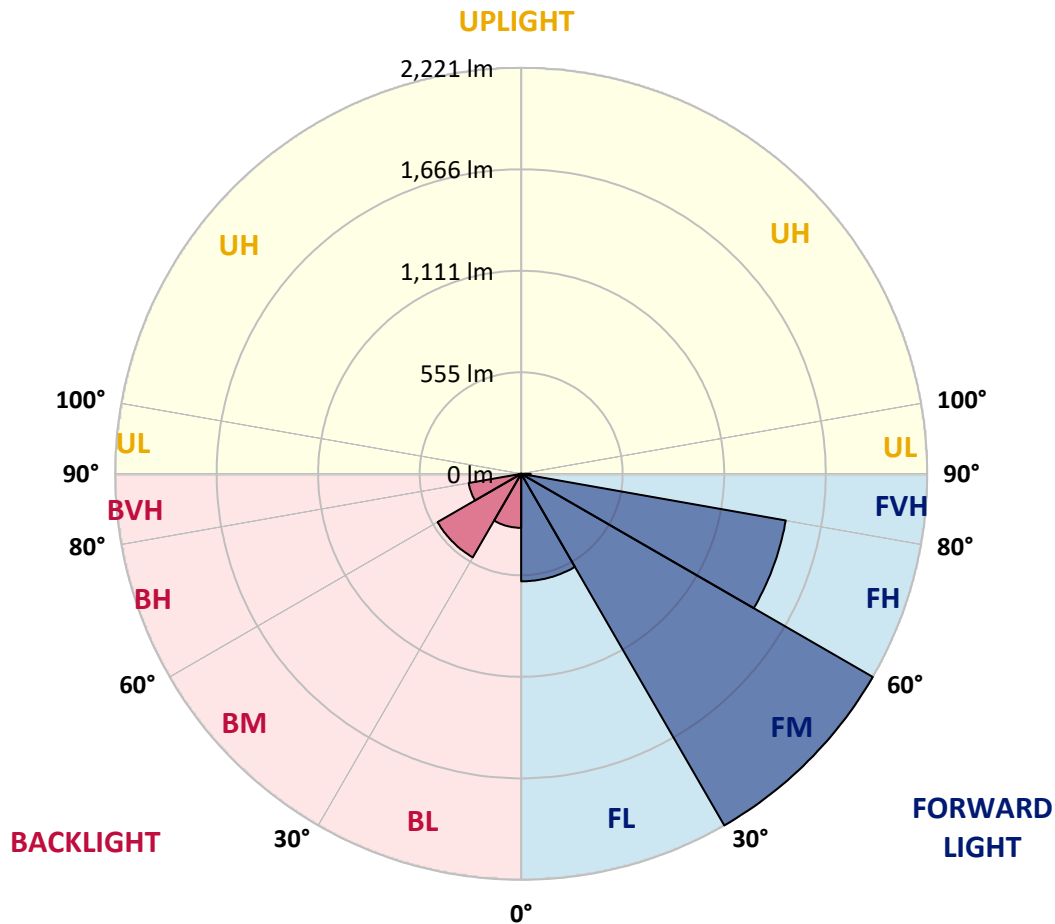
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.2	10.8			
FM	(30°-60°)	2221.2	40.7			
FH	(60°-80°)	1469.9	26.9			G1/1800
FVH	(80°-90°)	52.0	1.0			G1/100
BL	(0°-30°)	295.7	5.4	B1/500		
BM	(30°-60°)	528.0	9.7	B1/1000		
BH	(60°-80°)	291.5	5.3	B1/500		G1/500
BVH	(80°-90°)	12.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5
2.5°	1160.3	1160.3	1158.2	1143.8	1137.6	1129.4	1123.2	1117.1	1115.0	1108.8	1098.5
5°	1228.1	1226.1	1226.1	1213.7	1201.4	1184.9	1168.5	1152.0	1150.0	1133.5	1110.9
7.5°	1267.2	1267.2	1263.1	1254.9	1246.7	1236.4	1211.7	1176.7	1174.7	1152.0	1121.2
10°	1277.5	1279.6	1287.8	1267.2	1261.1	1250.8	1238.4	1201.4	1195.2	1162.3	1112.9
12.5°	1314.5	1314.5	1312.5	1294.0	1287.8	1279.6	1259.0	1230.2	1224.0	1182.9	1115.0
15°	1359.8	1361.9	1355.7	1339.2	1331.0	1320.7	1294.0	1263.1	1261.1	1207.6	1131.5
17.5°	1382.4	1382.4	1386.5	1363.9	1366.0	1361.9	1349.5	1306.3	1304.3	1254.9	1160.3
20°	1390.7	1392.7	1394.8	1394.8	1396.8	1392.7	1405.1	1368.0	1361.9	1306.3	1199.3
22.5°	1427.7	1431.8	1442.1	1435.9	1446.2	1452.4	1456.5	1458.5	1450.3	1392.7	1265.2
25°	1444.1	1454.4	1468.8	1491.5	1507.9	1520.3	1551.1	1565.5	1563.5	1514.1	1374.2
27.5°	1419.5	1431.8	1481.2	1520.3	1577.9	1610.8	1668.4	1686.9	1693.1	1647.8	1491.5
30°	1452.4	1456.5	1479.1	1528.5	1600.5	1699.2	1777.4	1818.6	1818.6	1783.6	1606.7
32.5°	1400.9	1413.3	1479.1	1569.6	1680.7	1787.7	1861.8	1950.2	1950.2	1933.8	1771.2
35°	1394.8	1400.9	1440.0	1540.8	1682.8	1878.2	1977.0	2081.9	2096.3	2098.3	1933.8
37.5°	1337.2	1349.5	1419.5	1549.1	1744.5	1933.8	2071.6	2234.1	2250.6	2273.2	2069.5
40°	1273.4	1277.5	1339.2	1475.0	1730.1	2005.8	2162.1	2404.9	2423.4	2454.2	2250.6
42.5°	1178.8	1195.2	1298.1	1446.2	1723.9	2028.4	2262.9	2565.3	2585.9	2629.1	2400.7
45°	1094.4	1100.6	1176.7	1341.3	1656.0	2061.3	2341.1	2754.6	2766.9	2793.7	2526.2
47.5°	1026.5	1030.7	1106.8	1248.7	1592.3	2053.1	2417.2	2925.3	2954.1	2995.3	2674.4
50°	822.9	845.5	1034.8	1172.6	1481.2	2038.7	2476.9	3139.3	3182.5	3198.9	2845.1
52.5°	701.5	705.6	804.4	1096.5	1366.0	1977.0	2534.5	3357.3	3406.7	3361.5	3050.8
55°	650.1	654.2	699.4	944.3	1269.3	1857.6	2577.7	3567.2	3602.1	3491.1	3205.1
57.5°	617.2	625.4	646.0	767.3	1154.1	1658.1	2585.9	3682.4	3696.8	3593.9	3283.3
60°	571.9	571.9	613.0	670.6	1028.6	1444.1	2518.0	3740.0	3809.9	3711.2	3427.3
62.5°	532.8	536.9	563.7	606.9	905.2	1263.1	2318.5	3904.6	3939.5	3822.3	3478.7
65°	487.6	491.7	516.4	559.6	822.9	1162.3	2211.5	3838.7	3735.9	3793.5	3542.5
67.5°	436.1	438.2	462.9	502.0	691.2	1071.8	1954.3	3587.7	3503.4	3657.7	3365.6
70°	384.7	384.7	405.3	436.1	563.7	940.1	1614.9	3359.4	3423.2	3431.4	3190.7
72.5°	320.9	323.0	343.6	370.3	452.6	785.8	1277.5	3131.0	3159.8	3050.8	2806.0
75°	230.4	238.6	261.3	288.0	358.0	623.3	907.2	2544.7	2694.9	2888.3	2411.0
77.5°	35.0	35.0	43.2	65.8	117.3	312.7	419.7	1405.1	1559.4	2417.2	2106.6
80°	28.8	28.8	30.9	43.2	67.9	174.9	135.8	440.2	473.2	1110.9	1187.0
82.5°	14.4	14.4	22.6	30.9	41.1	51.4	57.6	211.9	244.8	378.5	473.2
85°	8.2	8.2	10.3	14.4	16.5	16.5	18.5	100.8	104.9	205.7	213.9
87.5°	2.1	2.1	4.1	4.1	4.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5	1098.5
2.5°	1094.4	1088.3	1075.9	1065.6	1059.5	1047.1	1036.8	1028.6	1024.5	1034.8	1036.8
5°	1096.5	1082.1	1059.5	1045.1	1028.6	1008.0	983.3	968.9	962.8	964.8	971.0
7.5°	1100.6	1080.0	1053.3	1022.4	979.2	938.1	909.3	892.8	884.6	894.9	894.9
10°	1088.3	1065.6	1028.6	981.3	925.7	884.6	851.7	822.9	812.6	816.7	818.8
12.5°	1088.3	1057.4	995.7	938.1	886.7	818.8	769.4	742.6	732.4	734.4	738.5
15°	1094.4	1053.3	966.9	896.9	820.8	748.8	705.6	672.7	662.4	652.1	656.2
17.5°	1115.0	1047.1	952.5	841.4	757.0	689.2	629.5	592.5	584.2	584.2	586.3
20°	1135.6	1055.3	927.8	800.2	699.4	615.1	553.4	526.6	508.1	499.9	508.1
22.5°	1178.8	1084.1	911.3	773.5	639.8	559.6	502.0	442.3	409.4	395.0	399.1
25°	1256.9	1135.6	923.7	726.2	606.9	508.1	427.9	355.9	310.6	296.2	300.4
27.5°	1378.3	1219.9	938.1	722.1	547.2	456.7	347.7	269.5	234.5	220.1	224.2
30°	1497.6	1335.1	985.4	680.9	524.6	374.4	263.3	207.8	172.8	158.4	162.5
32.5°	1600.5	1446.2	1045.1	670.6	464.9	281.8	197.5	154.3	127.5	115.2	117.3
35°	1752.7	1540.8	1096.5	639.8	395.0	211.9	144.0	111.1	96.7	92.6	92.6
37.5°	1888.5	1651.9	1145.9	629.5	296.2	158.4	102.9	90.5	88.5	82.3	82.3
40°	2030.4	1769.2	1168.5	592.5	216.0	111.1	84.3	84.3	82.3	76.1	76.1
42.5°	2197.1	1888.5	1189.1	549.3	154.3	84.3	78.2	80.2	78.2	72.0	69.9
45°	2316.4	1962.6	1195.2	440.2	107.0	80.2	74.1	76.1	74.1	69.9	67.9
47.5°	2425.4	2069.5	1168.5	308.6	86.4	76.1	72.0	72.0	72.0	65.8	63.8
50°	2538.6	2158.0	1145.9	166.6	84.3	74.1	67.9	65.8	67.9	63.8	61.7
52.5°	2688.8	2225.9	1086.2	113.1	82.3	72.0	65.8	61.7	63.8	59.7	61.7
55°	2888.3	2404.9	977.2	107.0	82.3	69.9	63.8	57.6	57.6	55.5	55.5
57.5°	2978.8	2472.7	802.3	102.9	80.2	69.9	59.7	53.5	49.4	47.3	45.3
60°	3089.9	2571.5	619.2	94.6	74.1	65.8	53.5	47.3	41.1	39.1	39.1
62.5°	3147.5	2594.1	489.6	84.3	67.9	57.6	47.3	39.1	32.9	28.8	28.8
65°	3180.4	2581.8	341.5	76.1	59.7	51.4	41.1	32.9	24.7	22.6	20.6
67.5°	3069.3	2507.7	199.5	65.8	51.4	45.3	35.0	26.7	20.6	18.5	16.5
70°	2847.2	2281.4	125.5	57.6	45.3	39.1	30.9	22.6	16.5	14.4	14.4
72.5°	2608.5	1839.1	86.4	45.3	35.0	30.9	22.6	18.5	14.4	10.3	10.3
75°	2347.3	1596.4	63.8	32.9	24.7	22.6	18.5	14.4	12.3	8.2	8.2
77.5°	1664.3	1057.4	51.4	24.7	16.5	14.4	12.3	10.3	8.2	8.2	6.2
80°	983.3	516.4	39.1	16.5	12.3	10.3	8.2	8.2	6.2	6.2	6.2
82.5°	368.2	197.5	26.7	12.3	8.2	8.2	6.2	6.2	4.1	4.1	4.1
85°	133.7	49.4	12.3	6.2	6.2	4.1	4.1	4.1	4.1	4.1	4.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)