

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: P691501

Luminaire Tested: **CRTK2-C016-D-U-T2-8027-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691501
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-D-U-T2-8027-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K 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: 4563 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 41.6
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



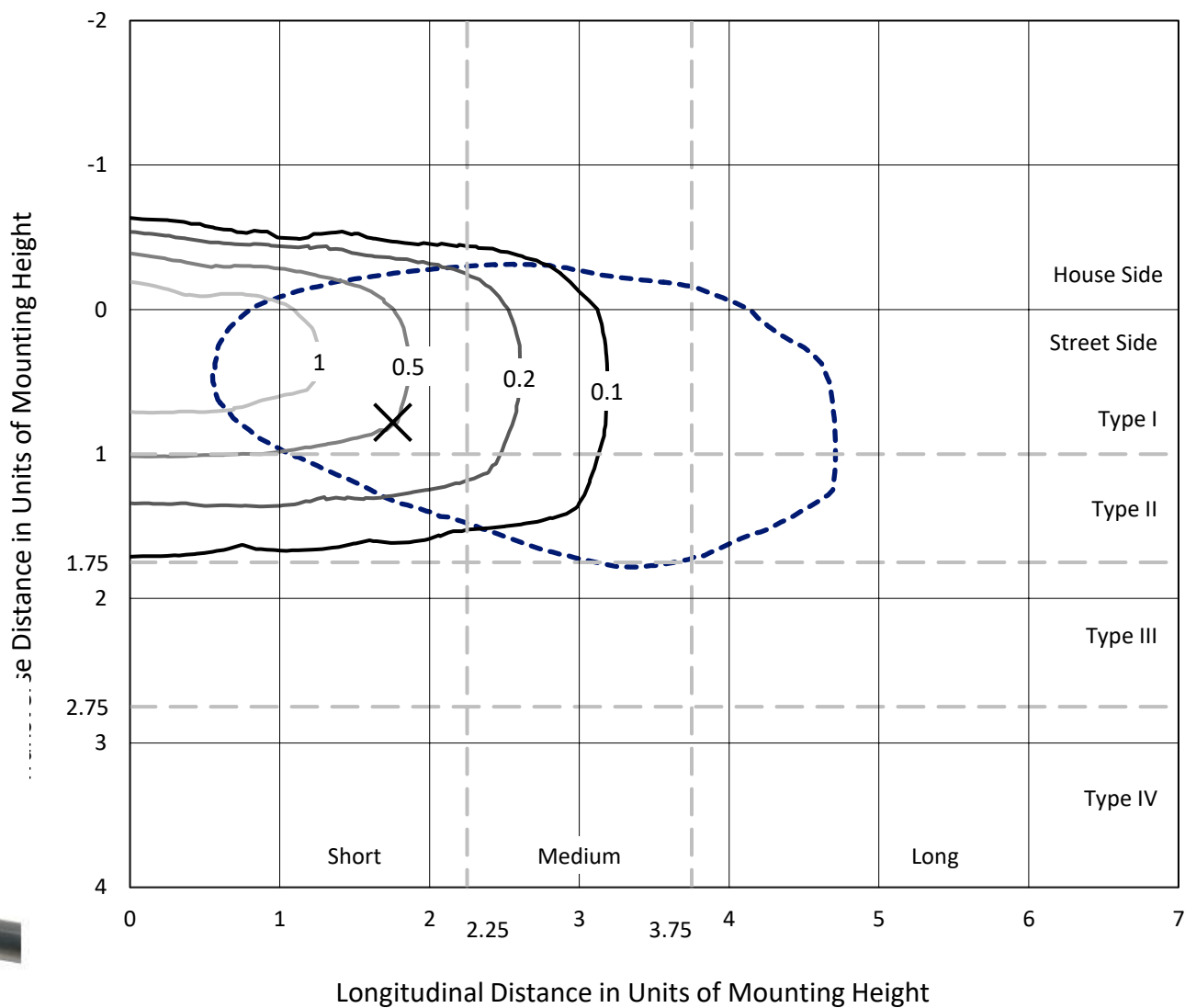
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

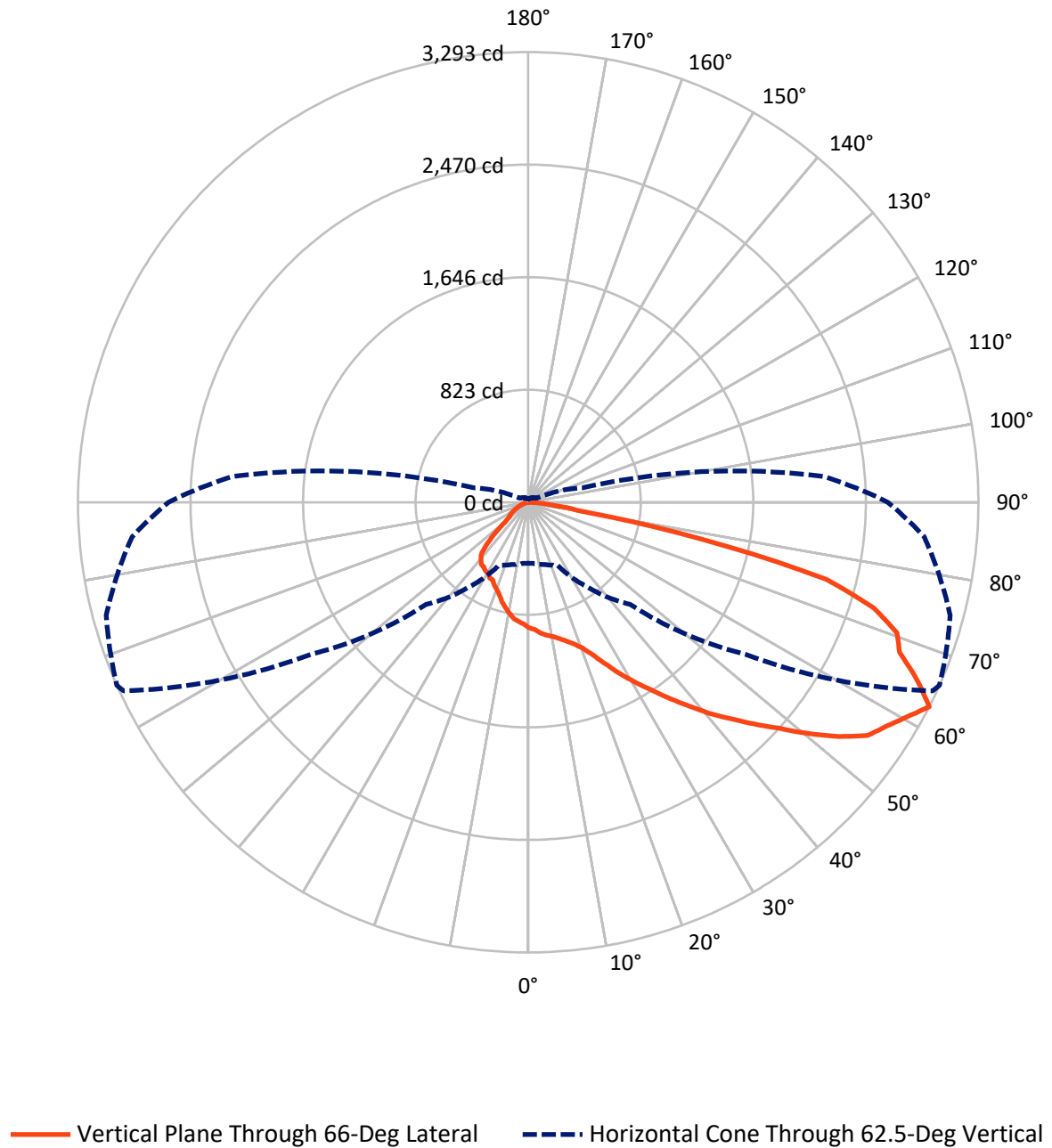


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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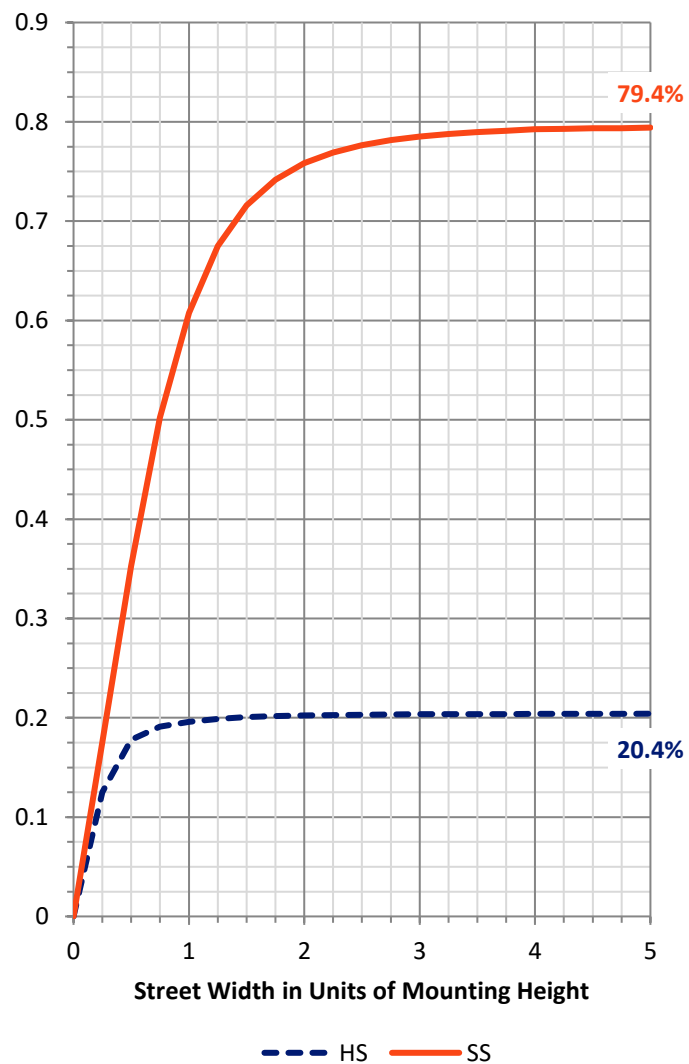
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.6	0.0	942.6
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	3620.4	0.0	3620.4
	% Fixture	79.3	0.0	79.3
Total	Lumens	4563.0	0.0	4563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.9
10°-20°	247.0	5.4
20°-30°	405.2	8.9
30°-40°	596.2	13.1
40°-50°	786.4	17.2
50°-60°	915.4	20.1
60°-70°	909.6	19.9
70°-80°	562.7	12.3
80°-90°	53.8	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°	4563.0	100.0
0°-180°	4563.0	100.0

Coefficient of Utilization



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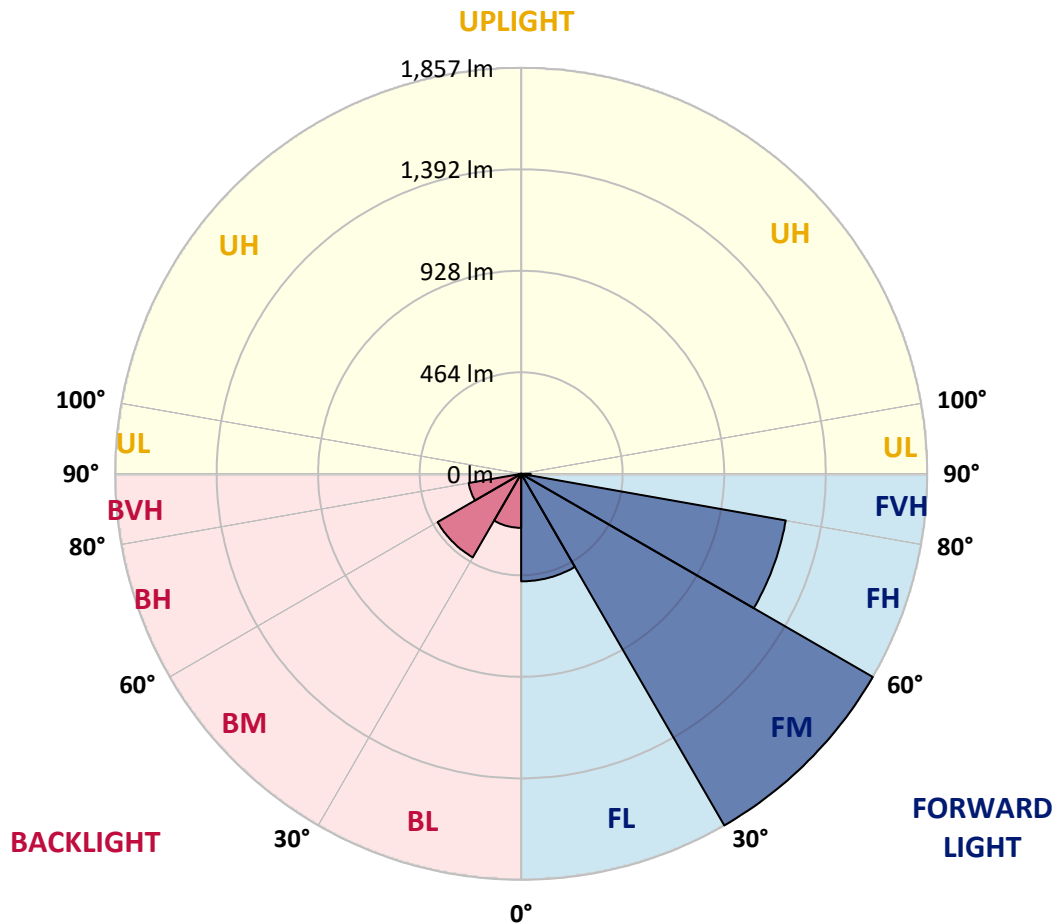
CATALOG NUMBER: CRTK2-C016-D-U-T2-8027-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.7	10.8			
FM	(30°-60°)	1856.6	40.7			
FH	(60°-80°)	1228.6	26.9			G1/1800
FVH	(80°-90°)	43.5	1.0			G1/100
BL	(0°-30°)	247.2	5.4	B1/500		
BM	(30°-60°)	441.4	9.7	B1/1000		
BH	(60°-80°)	243.7	5.3	B1/500		G1/500
BVH	(80°-90°)	10.3	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°	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2
2.5°	969.8	969.8	968.1	956.1	950.9	944.0	938.9	933.7	932.0	926.8	918.2
5°	1026.6	1024.8	1024.8	1014.5	1004.2	990.5	976.7	962.9	961.2	947.5	928.6
7.5°	1059.2	1059.2	1055.8	1048.9	1042.0	1033.4	1012.8	983.6	981.9	962.9	937.1
10°	1067.8	1069.6	1076.4	1059.2	1054.1	1045.5	1035.2	1004.2	999.1	971.5	930.3
12.5°	1098.8	1098.8	1097.1	1081.6	1076.4	1069.6	1052.4	1028.3	1023.1	988.7	932.0
15°	1136.6	1138.3	1133.2	1119.4	1112.5	1103.9	1081.6	1055.8	1054.1	1009.4	945.7
17.5°	1155.5	1155.5	1159.0	1140.1	1141.8	1138.3	1128.0	1091.9	1090.2	1048.9	969.8
20°	1162.4	1164.1	1165.8	1165.8	1167.6	1164.1	1174.4	1143.5	1138.3	1091.9	1002.5
22.5°	1193.4	1196.8	1205.4	1200.2	1208.8	1214.0	1217.4	1219.2	1212.3	1164.1	1057.5
25°	1207.1	1215.7	1227.8	1246.7	1260.4	1270.7	1296.5	1308.6	1306.9	1265.6	1148.7
27.5°	1186.5	1196.8	1238.1	1270.7	1318.9	1346.4	1394.5	1410.0	1415.2	1377.4	1246.7
30°	1214.0	1217.4	1236.3	1277.6	1337.8	1420.3	1485.7	1520.1	1520.1	1490.8	1343.0
32.5°	1171.0	1181.3	1236.3	1312.0	1404.9	1494.3	1556.2	1630.1	1630.1	1616.4	1480.5
35°	1165.8	1171.0	1203.7	1287.9	1406.6	1569.9	1652.5	1740.2	1752.2	1753.9	1616.4
37.5°	1117.7	1128.0	1186.5	1294.8	1458.2	1616.4	1731.6	1867.4	1881.2	1900.1	1729.9
40°	1064.4	1067.8	1119.4	1232.9	1446.1	1676.6	1807.2	2010.1	2025.6	2051.4	1881.2
42.5°	985.3	999.1	1085.0	1208.8	1441.0	1695.5	1891.5	2144.3	2161.5	2197.6	2006.7
45°	914.8	920.0	983.6	1121.1	1384.2	1723.0	1956.8	2302.5	2312.8	2335.1	2111.6
47.5°	858.1	861.5	925.1	1043.8	1330.9	1716.1	2020.5	2445.2	2469.3	2503.7	2235.4
50°	687.8	706.7	864.9	980.1	1238.1	1704.1	2070.3	2624.0	2660.1	2673.9	2378.1
52.5°	586.4	589.8	672.3	916.5	1141.8	1652.5	2118.5	2806.3	2847.6	2809.7	2550.1
55°	543.4	546.8	584.6	789.3	1061.0	1552.7	2154.6	2981.7	3010.9	2918.1	2679.0
57.5°	515.9	522.7	539.9	641.4	964.7	1385.9	2161.5	3078.0	3090.0	3004.0	2744.4
60°	478.0	478.0	512.4	560.6	859.8	1207.1	2104.7	3126.1	3184.6	3102.1	2864.8
62.5°	445.4	448.8	471.2	507.3	756.6	1055.8	1937.9	3263.7	3292.9	3194.9	2907.7
65°	407.5	411.0	431.6	467.7	687.8	971.5	1848.5	3208.7	3122.7	3170.8	2961.0
67.5°	364.5	366.3	386.9	419.6	577.8	895.9	1633.6	2998.9	2928.4	3057.3	2813.2
70°	321.6	321.6	338.7	364.5	471.2	785.8	1349.8	2808.0	2861.3	2868.2	2667.0
72.5°	268.2	270.0	287.2	309.5	378.3	656.9	1067.8	2617.1	2641.2	2550.1	2345.5
75°	192.6	199.5	218.4	240.7	299.2	521.0	758.3	2127.1	2252.6	2414.2	2015.3
77.5°	29.2	29.2	36.1	55.0	98.0	261.4	350.8	1174.4	1303.4	2020.5	1760.8
80°	24.1	24.1	25.8	36.1	56.7	146.2	113.5	368.0	395.5	928.6	992.2
82.5°	12.0	12.0	18.9	25.8	34.4	43.0	48.1	177.1	204.6	316.4	395.5
85°	6.9	6.9	8.6	12.0	13.8	13.8	15.5	84.3	87.7	172.0	178.8
87.5°	1.7	1.7	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
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°	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2	918.2
2.5°	914.8	909.6	899.3	890.7	885.6	875.2	866.6	859.8	856.3	864.9	866.6
5°	916.5	904.5	885.6	873.5	859.8	842.6	821.9	809.9	804.7	806.5	811.6
7.5°	920.0	902.8	880.4	854.6	818.5	784.1	760.0	746.3	739.4	748.0	748.0
10°	909.6	890.7	859.8	820.2	773.8	739.4	711.9	687.8	679.2	682.7	684.4
12.5°	909.6	883.8	832.3	784.1	741.1	684.4	643.1	620.8	612.2	613.9	617.3
15°	914.8	880.4	808.2	749.7	686.1	625.9	589.8	562.3	553.7	545.1	548.5
17.5°	932.0	875.2	796.1	703.3	632.8	576.0	526.2	495.2	488.3	488.3	490.1
20°	949.2	882.1	775.5	668.9	584.6	514.1	462.6	440.2	424.7	417.8	424.7
22.5°	985.3	906.2	761.8	646.5	534.8	467.7	419.6	369.7	342.2	330.2	333.6
25°	1050.6	949.2	772.1	607.0	507.3	424.7	357.7	297.5	259.7	247.6	251.1
27.5°	1152.1	1019.7	784.1	603.6	457.4	381.7	290.6	225.3	196.0	184.0	187.4
30°	1251.8	1116.0	823.7	569.2	438.5	313.0	220.1	173.7	144.4	132.4	135.8
32.5°	1337.8	1208.8	873.5	560.6	388.6	235.6	165.1	129.0	106.6	96.3	98.0
35°	1465.0	1287.9	916.5	534.8	330.2	177.1	120.4	92.9	80.8	77.4	77.4
37.5°	1578.5	1380.8	957.8	526.2	247.6	132.4	86.0	75.7	73.9	68.8	68.8
40°	1697.2	1478.8	976.7	495.2	180.6	92.9	70.5	70.5	68.8	63.6	63.6
42.5°	1836.5	1578.5	993.9	459.1	129.0	70.5	65.3	67.1	65.3	60.2	58.5
45°	1936.2	1640.4	999.1	368.0	89.4	67.1	61.9	63.6	61.9	58.5	56.7
47.5°	2027.3	1729.9	976.7	257.9	72.2	63.6	60.2	60.2	60.2	55.0	53.3
50°	2121.9	1803.8	957.8	139.3	70.5	61.9	56.7	55.0	56.7	53.3	51.6
52.5°	2247.4	1860.5	907.9	94.6	68.8	60.2	55.0	51.6	53.3	49.9	51.6
55°	2414.2	2010.1	816.8	89.4	68.8	58.5	53.3	48.1	48.1	46.4	46.4
57.5°	2489.9	2066.9	670.6	86.0	67.1	58.5	49.9	44.7	41.3	39.5	37.8
60°	2582.8	2149.4	517.6	79.1	61.9	55.0	44.7	39.5	34.4	32.7	32.7
62.5°	2630.9	2168.3	409.3	70.5	56.7	48.1	39.5	32.7	27.5	24.1	24.1
65°	2658.4	2158.0	285.4	63.6	49.9	43.0	34.4	27.5	20.6	18.9	17.2
67.5°	2565.6	2096.1	166.8	55.0	43.0	37.8	29.2	22.4	17.2	15.5	13.8
70°	2379.8	1907.0	104.9	48.1	37.8	32.7	25.8	18.9	13.8	12.0	12.0
72.5°	2180.4	1537.3	72.2	37.8	29.2	25.8	18.9	15.5	12.0	8.6	8.6
75°	1962.0	1334.4	53.3	27.5	20.6	18.9	15.5	12.0	10.3	6.9	6.9
77.5°	1391.1	883.8	43.0	20.6	13.8	12.0	10.3	8.6	6.9	6.9	5.2
80°	821.9	431.6	32.7	13.8	10.3	8.6	6.9	6.9	5.2	5.2	5.2
82.5°	307.8	165.1	22.4	10.3	6.9	6.9	5.2	5.2	3.4	3.4	3.4
85°	111.8	41.3	10.3	5.2	5.2	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)