

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: P798579

Luminaire Tested: **ARCH1-20-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

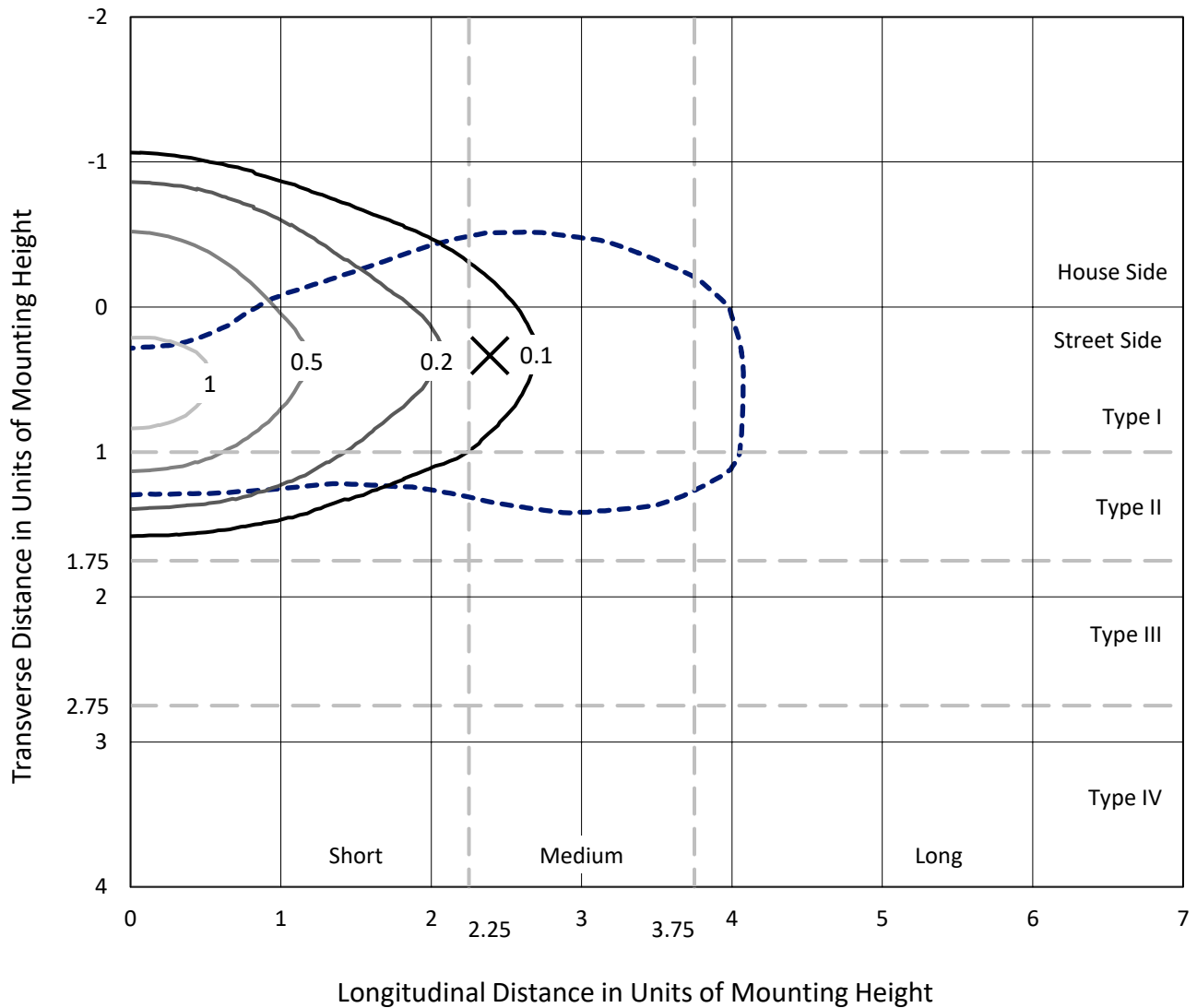
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

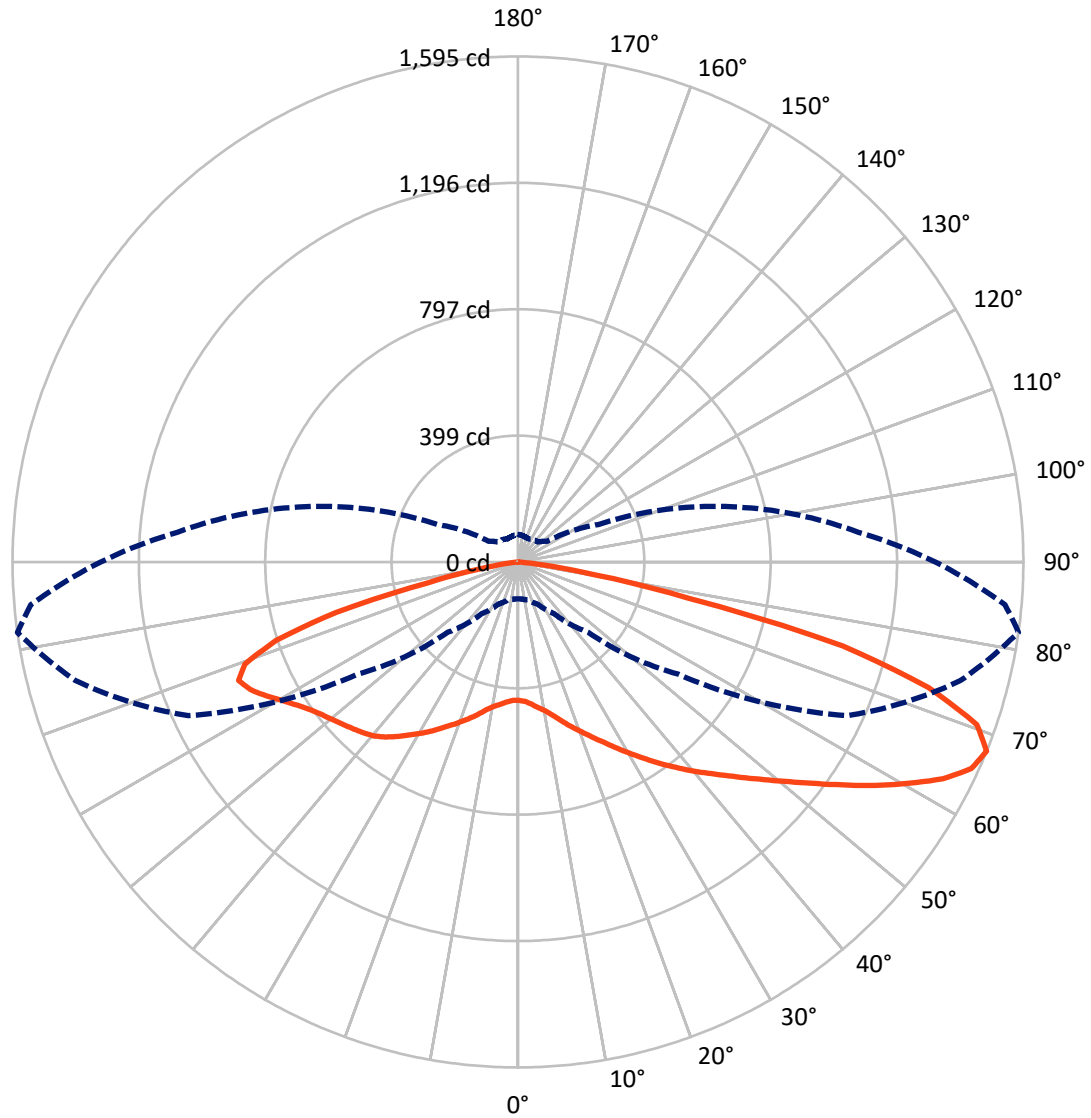
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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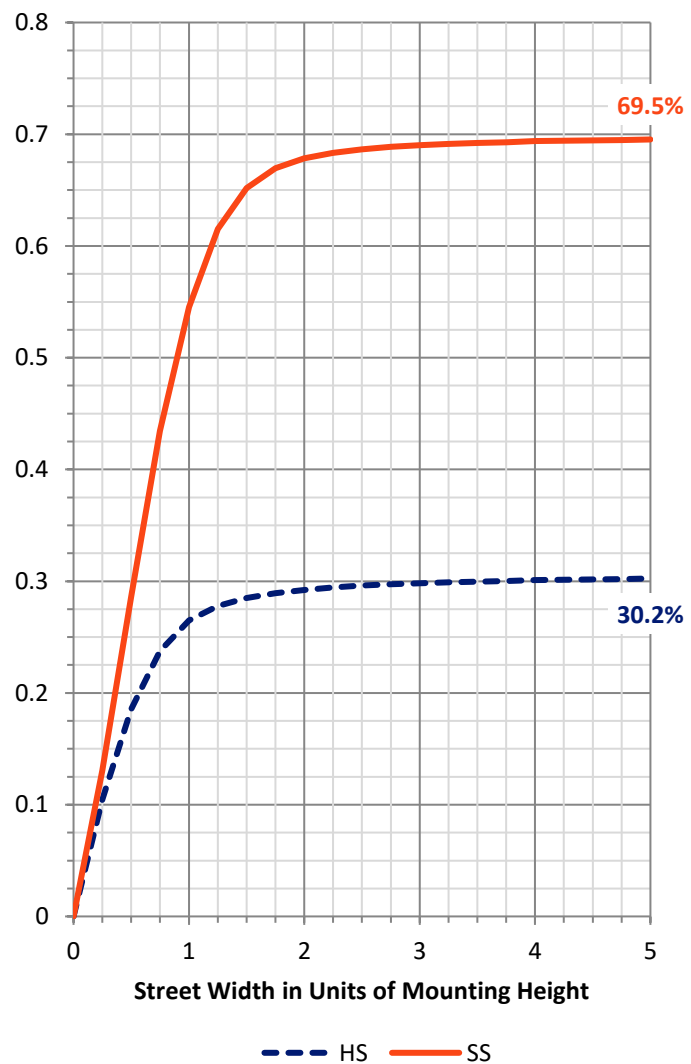
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.9	0.0	924.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2112.1	0.0	2112.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	3037.0	0.0	3037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.5
10°-20°	162.5	5.4
20°-30°	326.6	10.8
30°-40°	513.1	16.9
40°-50°	625.0	20.6
50°-60°	590.6	19.4
60°-70°	487.7	16.1
70°-80°	265.6	8.7
80°-90°	20.9	0.7
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°	3037.0	100.0
0°-180°	3037.0	100.0

Coefficient of Utilization



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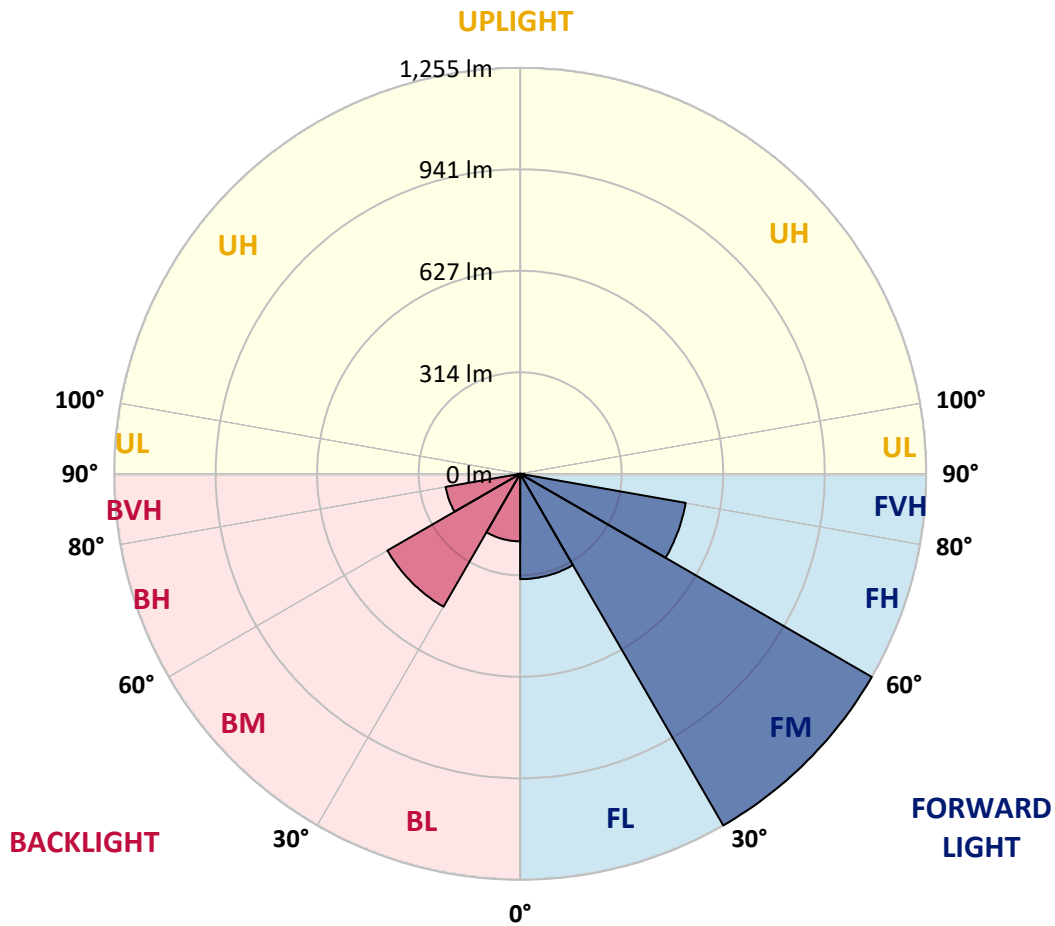
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.7	10.7			
FM (30°-60°)	1254.7	41.3			
FH (60°-80°)	519.1	17.1			G0/660
FVH (80°-90°)	12.6	0.4			G1/100
BL (0°-30°)	208.6	6.9	B1/500		
BM (30°-60°)	473.9	15.6	B1/1000		
BH (60°-80°)	234.1	7.7	B1/500		G1/500
BVH (80°-90°)	8.3	0.3			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6
2.5°	456.4	456.4	459.9	459.9	456.9	452.0	450.7	445.4	440.5	440.5	441.0
5°	500.1	499.6	502.3	498.7	491.2	481.5	474.9	463.5	453.8	450.7	450.2
7.5°	553.4	553.0	554.3	548.6	534.5	518.6	505.4	486.8	471.0	464.3	462.6
10°	613.0	612.5	611.2	601.5	582.5	557.8	538.0	512.4	488.6	478.0	475.8
12.5°	681.3	680.4	677.3	663.2	637.2	605.5	576.8	543.7	512.0	497.4	492.6
15°	757.6	756.3	750.5	733.3	698.5	658.4	621.3	579.0	540.2	521.2	514.6
17.5°	837.9	837.9	829.0	803.5	764.7	714.8	669.0	615.2	569.7	546.4	538.4
20°	919.4	919.0	908.0	877.1	831.2	773.9	715.7	656.6	600.2	571.9	562.2
22.5°	1005.4	1004.5	990.9	955.6	900.9	836.1	768.2	697.6	633.7	599.7	587.4
25°	1104.2	1102.9	1086.1	1042.9	978.1	904.9	827.3	745.7	672.0	630.6	616.0
27.5°	1209.2	1207.4	1187.6	1137.3	1066.3	978.1	892.5	801.3	714.4	665.0	648.7
30°	1302.6	1301.3	1279.7	1228.1	1146.5	1050.8	954.7	856.8	758.9	701.6	681.3
32.5°	1373.2	1373.2	1353.8	1303.1	1218.4	1120.5	1017.3	909.3	805.2	740.8	717.0
35°	1416.0	1417.3	1400.5	1360.0	1280.2	1186.2	1082.2	971.0	854.6	782.7	757.2
37.5°	1422.2	1426.6	1416.9	1389.5	1322.9	1240.9	1145.7	1030.6	905.8	825.1	796.4
40°	1393.5	1396.6	1397.0	1386.4	1340.6	1280.2	1201.7	1093.6	960.0	869.6	836.5
42.5°	1336.2	1338.4	1342.3	1345.4	1327.8	1297.4	1244.4	1152.3	1017.8	915.0	876.2
45°	1262.1	1261.6	1268.2	1281.5	1280.6	1287.7	1268.2	1205.6	1077.7	966.6	920.3
47.5°	1151.4	1149.2	1172.6	1202.5	1217.5	1250.6	1268.7	1247.5	1143.0	1023.5	970.6
50°	978.1	975.9	1027.0	1097.6	1141.7	1192.0	1244.4	1272.7	1211.4	1087.4	1025.3
52.5°	767.3	765.1	829.9	953.4	1049.5	1122.7	1195.5	1278.4	1276.2	1158.9	1087.0
55°	570.6	568.9	631.9	765.5	921.2	1042.5	1135.5	1263.4	1337.0	1240.9	1162.0
57.5°	402.2	401.3	456.0	566.7	756.3	944.6	1077.7	1234.3	1393.0	1330.0	1246.6
60°	282.2	280.9	320.6	406.1	571.9	796.8	1020.4	1195.5	1434.9	1417.7	1336.6
62.5°	190.1	189.2	217.4	288.8	406.1	613.4	933.5	1169.5	1458.8	1505.9	1427.4
65°	144.2	143.8	156.5	195.8	287.5	440.5	795.5	1166.4	1461.8	1572.1	1504.6
67.5°	116.4	116.9	123.9	146.4	198.9	313.1	616.9	1147.0	1445.5	1594.6	1542.1
70°	95.3	95.3	98.3	113.3	146.8	211.2	430.8	1058.8	1400.1	1535.9	1497.6
72.5°	72.8	73.2	82.9	91.7	110.7	148.2	276.1	876.2	1292.9	1354.2	1325.1
75°	57.8	57.3	63.1	75.4	86.0	105.8	169.3	628.4	1100.2	1058.3	1039.8
77.5°	41.5	41.0	45.4	56.0	65.3	75.0	101.0	317.1	598.4	549.9	536.2
80°	28.2	27.3	31.3	38.8	43.2	44.1	49.4	121.7	261.1	246.1	243.0
82.5°	14.6	14.6	16.8	22.0	22.5	22.9	22.0	39.2	86.4	80.7	77.2
85°	5.7	5.7	6.2	7.5	7.5	7.9	7.9	10.1	9.3	8.8	8.4
87.5°	0.4	0.4	0.9	0.9	1.3	1.3	1.3	1.8	2.2	2.2	2.2
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°	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6	436.6
2.5°	440.1	438.3	432.6	431.3	430.4	429.1	429.5	426.4	425.1	425.5	423.8
5°	448.0	444.9	437.9	434.8	433.9	432.6	433.9	431.7	429.5	430.4	429.5
7.5°	459.1	454.6	445.8	442.7	442.3	441.0	442.7	441.0	439.2	440.1	438.3
10°	470.5	464.8	455.1	452.0	452.0	451.6	453.3	450.7	448.9	449.4	448.5
12.5°	487.3	479.8	469.2	466.6	465.2	466.6	467.0	463.5	460.4	460.8	459.5
15°	507.6	499.2	487.7	483.8	482.9	482.4	480.7	476.3	472.3	471.8	470.5
17.5°	529.6	519.0	505.4	501.4	497.4	496.1	491.7	486.0	479.8	479.8	478.0
20°	550.8	538.9	522.6	516.8	511.1	505.8	498.3	489.0	481.1	479.8	478.0
22.5°	573.7	559.6	540.6	532.3	522.1	511.5	498.7	486.4	476.3	474.1	472.7
25°	599.3	581.6	559.2	546.8	530.5	514.2	495.2	479.3	467.4	463.9	463.0
27.5°	627.5	606.3	579.0	560.9	537.1	511.5	487.3	468.3	453.8	449.4	448.0
30°	656.2	631.0	597.1	570.6	537.1	503.2	472.7	450.7	433.9	427.7	426.9
32.5°	684.8	656.6	613.4	575.9	531.8	489.0	453.8	427.7	408.8	401.3	403.1
35°	719.2	684.8	628.4	578.1	523.0	471.8	432.2	401.7	382.3	375.7	377.0
37.5°	755.0	713.1	640.3	576.4	510.7	452.4	407.9	378.4	354.1	342.6	344.0
40°	785.8	738.6	648.7	570.2	494.8	430.4	384.1	345.3	311.8	300.7	299.4
42.5°	814.9	757.6	653.1	560.9	476.7	404.8	350.1	300.3	266.8	253.1	253.6
45°	845.4	776.1	651.3	548.6	454.2	374.8	306.5	256.2	226.7	214.3	214.8
47.5°	880.2	796.0	649.6	535.3	426.9	336.0	264.6	217.4	191.8	183.0	182.1
50°	917.2	818.0	647.4	519.0	396.4	292.8	223.1	181.2	159.6	153.9	152.6
52.5°	959.1	841.8	646.0	499.6	359.8	246.9	186.1	149.5	134.9	131.0	130.5
55°	1009.4	869.6	647.8	476.3	315.7	203.7	154.8	128.8	119.1	116.9	116.4
57.5°	1070.7	905.3	653.1	448.9	269.4	166.2	131.9	116.0	109.8	108.0	108.0
60°	1137.3	945.9	662.8	418.0	223.1	137.1	116.9	105.8	103.2	105.4	105.4
62.5°	1209.2	993.5	680.0	380.6	179.9	116.0	105.0	97.5	95.7	100.1	100.5
65°	1275.7	1039.8	691.0	335.6	142.9	100.5	95.7	89.1	90.0	94.4	93.9
67.5°	1316.8	1078.2	675.6	279.1	113.3	89.1	86.0	80.3	82.5	86.0	86.4
70°	1291.6	1056.6	599.3	210.8	88.6	77.6	75.4	71.9	73.6	78.1	79.8
72.5°	1168.6	946.3	466.1	142.4	71.4	65.3	66.1	64.4	66.6	70.6	74.5
75°	948.5	715.3	312.7	91.3	56.4	55.6	56.9	55.6	56.4	60.4	62.6
77.5°	495.2	348.8	155.7	56.9	41.9	43.2	45.4	45.9	48.5	49.4	50.3
80°	231.1	157.0	64.8	31.8	27.8	30.4	34.8	35.3	36.2	37.5	37.9
82.5°	75.4	47.2	30.0	17.2	15.9	17.2	22.5	26.9	27.3	30.0	30.0
85°	7.9	4.9	6.6	7.1	6.2	7.5	10.1	9.7	4.4	2.6	2.6
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	1.3	0.4	0.0	0.0	0.0
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)