

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: P798583

Luminaire Tested: **ARCH1-20-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2991 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

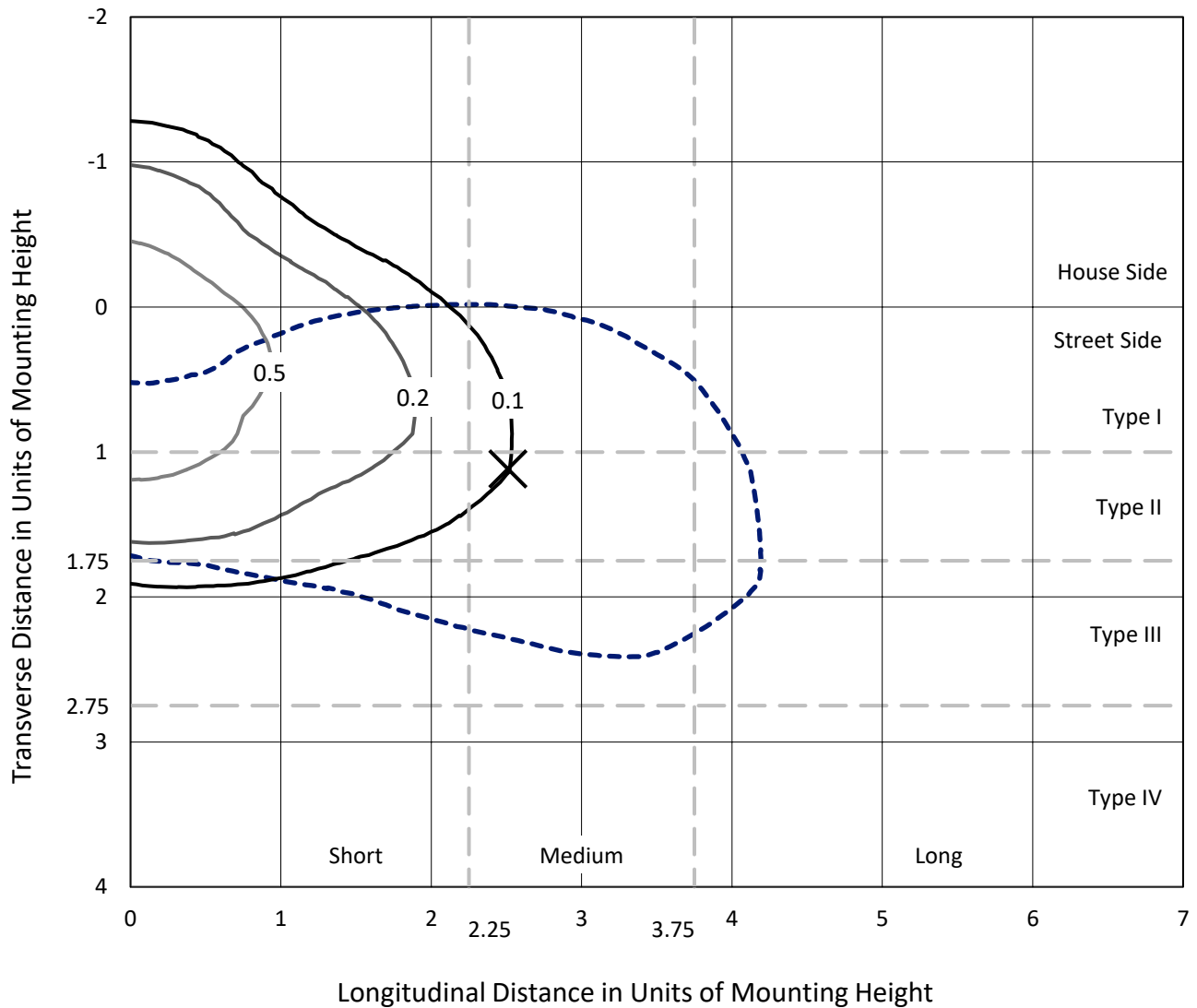
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

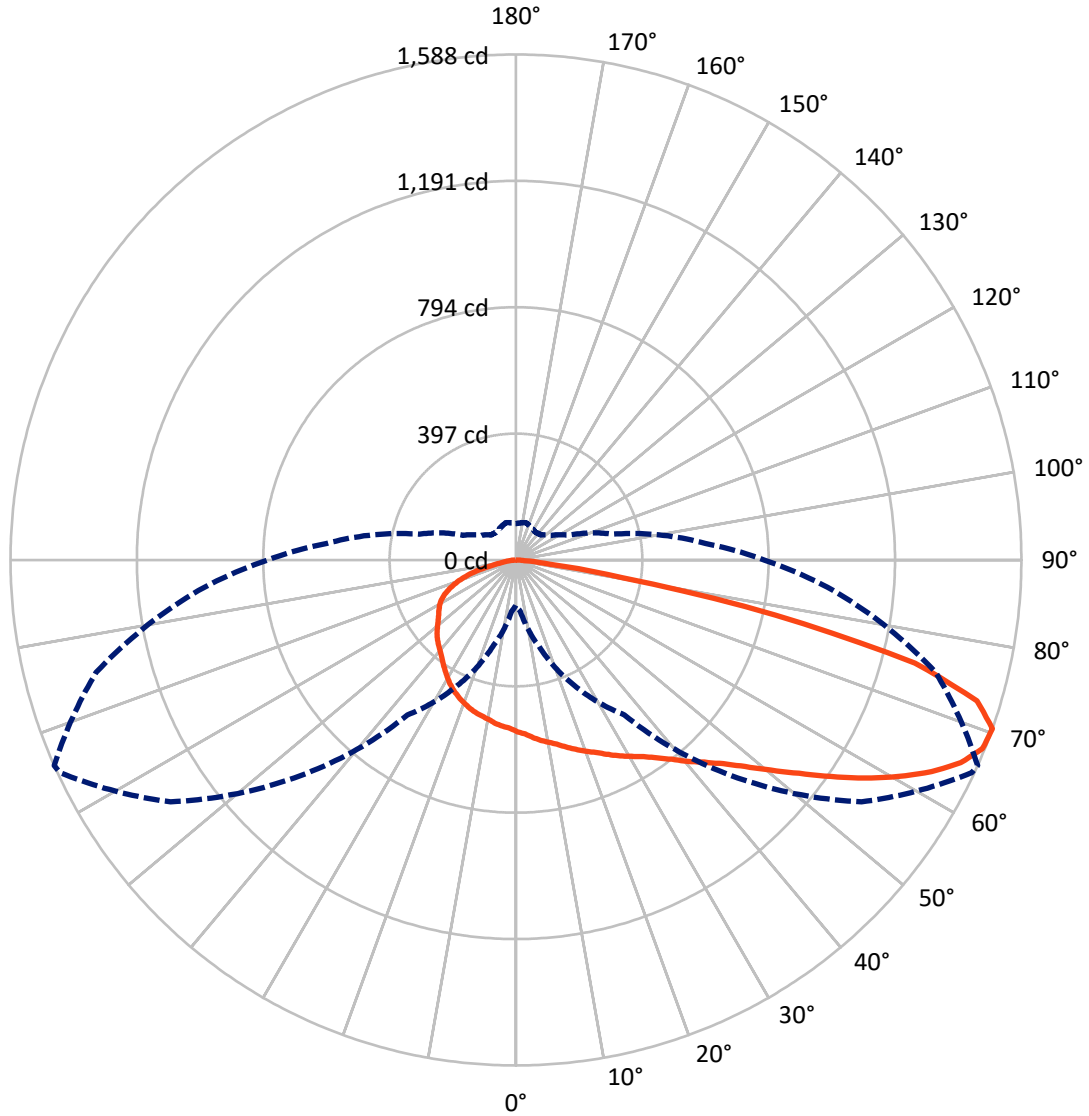
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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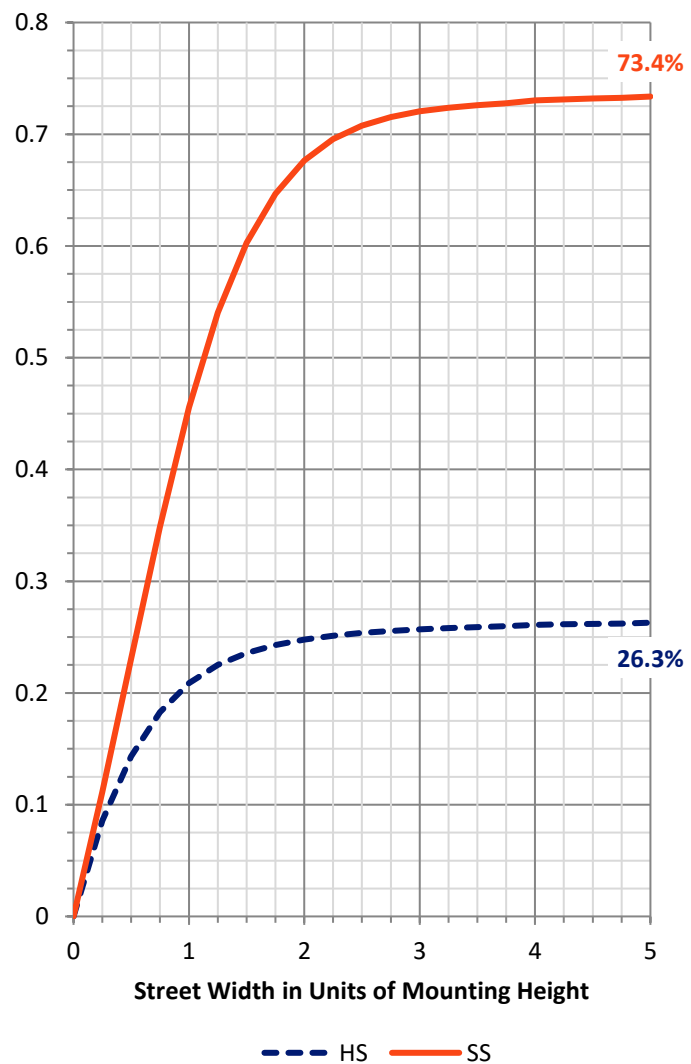
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.5	0.0	792.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	2198.4	0.0	2198.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	2991.0	0.0	2991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.7
10°-20°	155.6	5.2
20°-30°	260.8	8.7
30°-40°	390.5	13.1
40°-50°	522.1	17.5
50°-60°	609.6	20.4
60°-70°	606.2	20.3
70°-80°	358.9	12.0
80°-90°	35.4	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°	2991.0	100.0
0°-180°	2991.0	100.0

Coefficient of Utilization

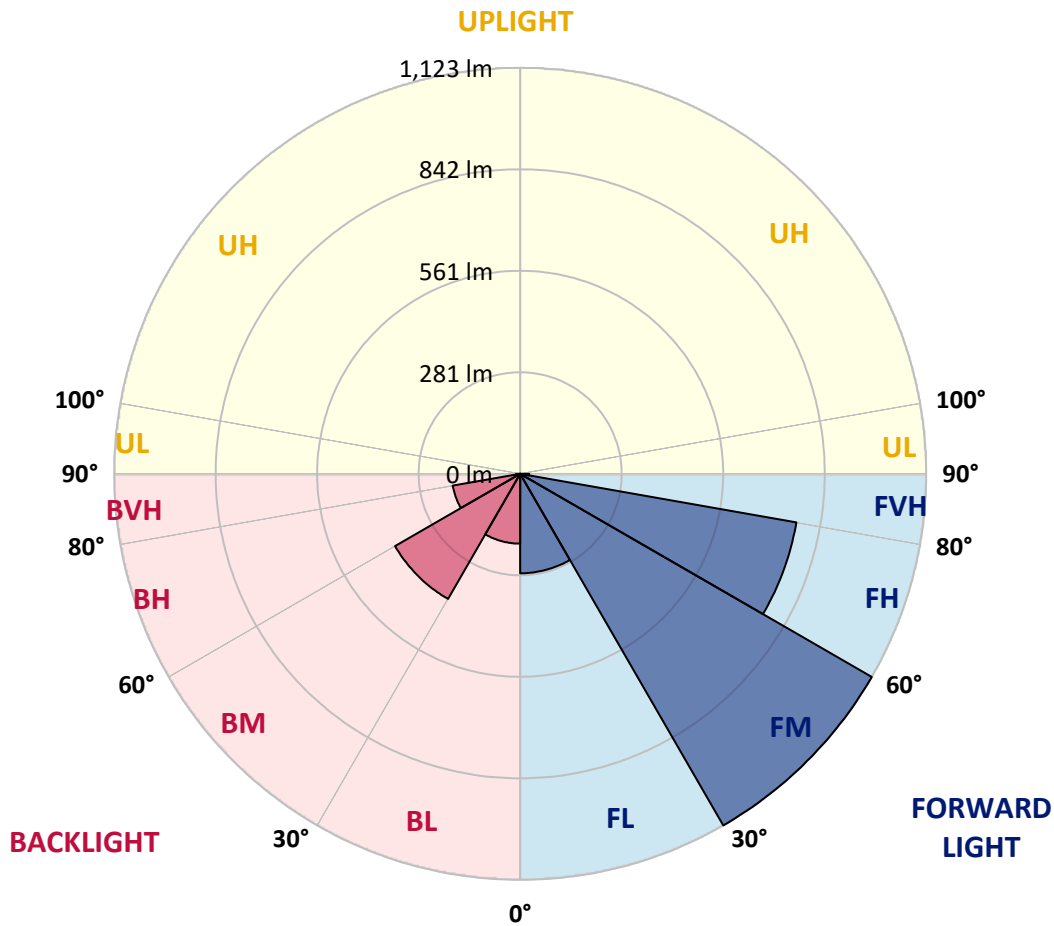


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.1	9.2			
FM (30°-60°)	1122.8	37.5			
FH (60°-80°)	775.7	25.9			G1/1800
FVH (80°-90°)	24.9	0.8			G1/100
BL (0°-30°)	193.2	6.5	B1/500		
BM (30°-60°)	399.5	13.4	B1/1000		
BH (60°-80°)	189.3	6.3	B1/500		G1/500
BVH (80°-90°)	10.5	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	559.7	558.8	558.3	556.6	552.6	554.4	550.4	547.7	547.3	541.1	537.6
5°	582.6	582.1	581.3	578.6	572.4	573.3	566.7	561.9	560.5	550.8	543.3
7.5°	602.0	601.1	600.7	597.1	590.5	590.1	582.1	575.1	572.9	559.7	548.2
10°	617.0	615.7	616.5	613.0	606.0	604.6	594.5	585.2	583.0	566.3	550.4
12.5°	629.8	628.9	630.2	627.1	621.4	620.1	609.9	598.0	595.4	576.0	555.2
15°	643.9	640.8	643.4	642.1	638.2	637.7	628.5	615.2	611.7	588.3	562.7
17.5°	651.4	649.6	652.7	653.1	651.4	654.5	645.7	629.8	626.7	599.8	569.4
20°	656.7	654.0	657.6	660.2	661.5	667.7	660.6	645.2	641.7	610.8	575.5
22.5°	674.8	669.0	669.5	671.2	672.1	680.9	676.5	661.5	658.0	624.5	583.0
25°	720.2	708.7	701.2	695.9	689.8	697.3	694.6	680.1	677.0	640.8	592.3
27.5°	790.7	776.2	761.2	745.8	721.5	718.4	714.0	700.8	697.3	657.1	601.6
30°	871.0	856.5	838.8	814.1	768.7	744.9	734.7	720.2	716.2	671.7	610.4
32.5°	950.8	938.0	920.4	890.4	825.6	777.1	755.5	740.5	736.5	687.5	621.0
35°	1013.0	1005.1	993.6	956.1	882.0	815.0	785.5	767.4	763.0	712.7	640.4
37.5°	1063.3	1057.6	1047.9	1008.6	923.1	852.9	819.9	799.1	794.3	740.0	661.1
40°	1137.4	1122.4	1114.5	1057.6	958.8	887.3	858.7	837.1	831.8	769.1	677.8
42.5°	1200.5	1189.4	1179.7	1101.2	992.7	916.9	895.3	875.4	868.4	797.8	695.9
45°	1211.0	1215.4	1210.6	1122.8	1046.5	946.0	932.3	919.5	912.9	836.6	723.3
47.5°	1211.5	1211.5	1182.8	1135.2	1113.1	978.6	972.0	976.4	969.4	886.0	755.9
50°	1179.7	1185.5	1170.5	1138.3	1130.8	1011.3	1020.5	1044.3	1037.3	938.5	791.2
52.5°	1114.0	1133.0	1132.5	1133.4	1105.2	1039.0	1071.7	1125.9	1114.0	997.6	828.7
55°	998.0	1036.0	1069.9	1099.0	1083.1	1055.8	1134.3	1212.8	1200.5	1063.7	866.6
57.5°	898.8	923.1	965.4	1047.9	1057.1	1070.4	1193.0	1303.7	1292.6	1136.9	906.3
60°	785.5	819.0	861.3	978.6	1025.4	1089.3	1257.3	1392.3	1381.7	1211.0	944.7
62.5°	611.3	654.5	739.1	872.3	979.1	1101.2	1308.1	1470.4	1465.5	1281.2	979.1
65°	426.0	464.4	583.0	741.8	905.4	1095.9	1348.6	1540.0	1535.6	1338.5	1003.3
67.5°	248.7	293.3	427.3	597.1	775.3	1059.3	1361.9	1581.1	1581.1	1373.3	1009.9
70°	142.0	162.7	281.8	435.3	594.5	958.3	1324.8	1580.6	1588.1	1365.4	982.6
72.5°	99.2	108.5	189.6	292.8	403.1	775.3	1227.8	1504.3	1514.5	1290.4	889.1
75°	77.2	83.8	133.6	199.8	254.0	526.6	1015.7	1268.4	1295.3	1099.9	718.9
77.5°	58.7	63.5	78.1	124.8	162.7	302.5	670.3	831.8	833.5	673.4	385.5
80°	42.8	47.6	52.0	76.3	86.4	141.6	253.1	347.5	337.8	325.9	208.6
82.5°	25.6	30.4	31.8	41.5	42.3	60.4	88.6	112.0	107.6	143.3	97.9
85°	11.0	15.4	16.3	19.0	18.1	24.7	35.3	29.5	26.5	30.4	21.2
87.5°	2.6	4.4	4.4	4.9	4.0	6.2	6.6	4.9	4.4	5.3	5.3
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°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	536.7	535.4	535.8	528.3	526.1	523.9	522.6	521.7	520.8	522.2	523.5
5°	540.7	537.6	534.1	523.0	518.6	513.8	510.3	507.2	505.8	505.8	507.2
7.5°	543.8	538.5	531.0	516.4	508.5	501.9	496.1	492.2	490.0	490.0	491.3
10°	544.2	536.7	524.8	507.2	496.6	486.9	480.3	475.9	472.8	472.8	473.7
12.5°	546.9	536.7	521.3	500.1	486.9	475.0	467.0	460.4	459.1	459.1	460.0
15°	551.3	538.9	519.1	493.9	478.1	464.4	455.6	448.5	445.9	447.6	448.1
17.5°	555.2	540.2	515.1	486.0	467.0	452.0	442.3	436.2	432.6	436.6	436.6
20°	557.9	540.2	509.4	475.9	455.1	438.4	429.1	421.6	419.0	423.8	424.3
22.5°	561.9	539.8	503.2	465.7	442.3	424.7	415.4	409.7	408.4	413.7	415.4
25°	566.3	540.7	496.6	454.2	428.2	411.0	404.0	401.3	402.2	408.8	411.0
27.5°	571.1	542.5	490.0	441.5	412.8	397.4	393.4	394.7	398.2	406.6	409.3
30°	575.5	542.9	480.7	426.5	395.2	380.6	382.4	388.1	393.4	401.8	404.9
32.5°	581.3	543.3	471.0	410.1	376.2	365.6	373.5	382.8	388.1	396.0	399.6
35°	595.4	550.8	463.5	394.3	358.5	352.8	366.0	378.0	381.0	388.1	391.2
37.5°	611.7	563.2	459.5	378.0	341.3	340.0	356.8	368.7	369.6	374.0	377.1
40°	621.8	568.5	455.1	364.3	325.9	326.8	344.0	353.3	351.5	354.6	356.8
42.5°	632.0	570.2	445.9	352.8	311.4	312.2	325.5	332.1	333.0	339.6	342.7
45°	649.2	575.1	435.7	342.2	298.1	295.0	303.0	311.8	323.3	336.1	339.6
47.5°	672.1	585.2	425.1	329.4	285.3	275.2	278.3	293.7	305.6	317.5	319.7
50°	695.5	595.4	415.4	314.0	272.5	254.0	255.4	269.5	279.2	288.4	289.7
52.5°	718.4	604.2	407.1	299.5	258.0	228.9	234.2	248.7	255.4	259.8	261.1
55°	741.4	611.7	399.6	287.1	241.2	209.0	213.9	227.6	234.2	236.4	237.3
57.5°	765.2	620.5	393.8	276.5	222.3	191.4	194.5	204.2	210.4	213.0	212.1
60°	785.0	628.0	390.7	265.5	203.3	175.1	174.2	183.0	191.8	194.5	193.6
62.5°	800.4	632.9	385.9	251.4	186.6	158.8	154.4	165.8	175.1	176.8	178.2
65°	808.8	633.3	374.0	233.3	169.4	141.1	138.0	149.5	155.2	157.0	157.0
67.5°	807.5	626.2	350.6	209.0	153.5	125.2	122.6	129.7	138.0	139.4	138.0
70°	780.2	597.1	313.1	183.5	134.5	111.1	106.3	113.3	121.3	116.4	114.2
72.5°	702.5	521.7	258.0	155.2	113.3	93.5	91.3	98.3	98.8	99.7	97.5
75°	554.4	388.5	193.2	120.8	91.7	78.5	78.1	76.7	78.5	82.0	79.4
77.5°	291.1	194.0	104.5	74.1	66.6	63.1	60.0	59.5	64.8	67.0	64.4
80°	157.9	108.9	60.0	44.5	40.6	41.0	45.0	44.1	49.8	51.2	49.0
82.5°	68.8	51.6	29.5	26.9	26.9	26.5	27.8	30.9	37.0	37.0	29.5
85°	15.0	12.8	11.5	13.2	15.0	15.0	15.0	15.0	10.6	5.7	4.0
87.5°	4.9	4.9	4.9	5.3	5.7	5.7	4.9	3.5	2.2	0.4	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)