

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: P798617

Luminaire Tested: **ARCH1-20-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
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



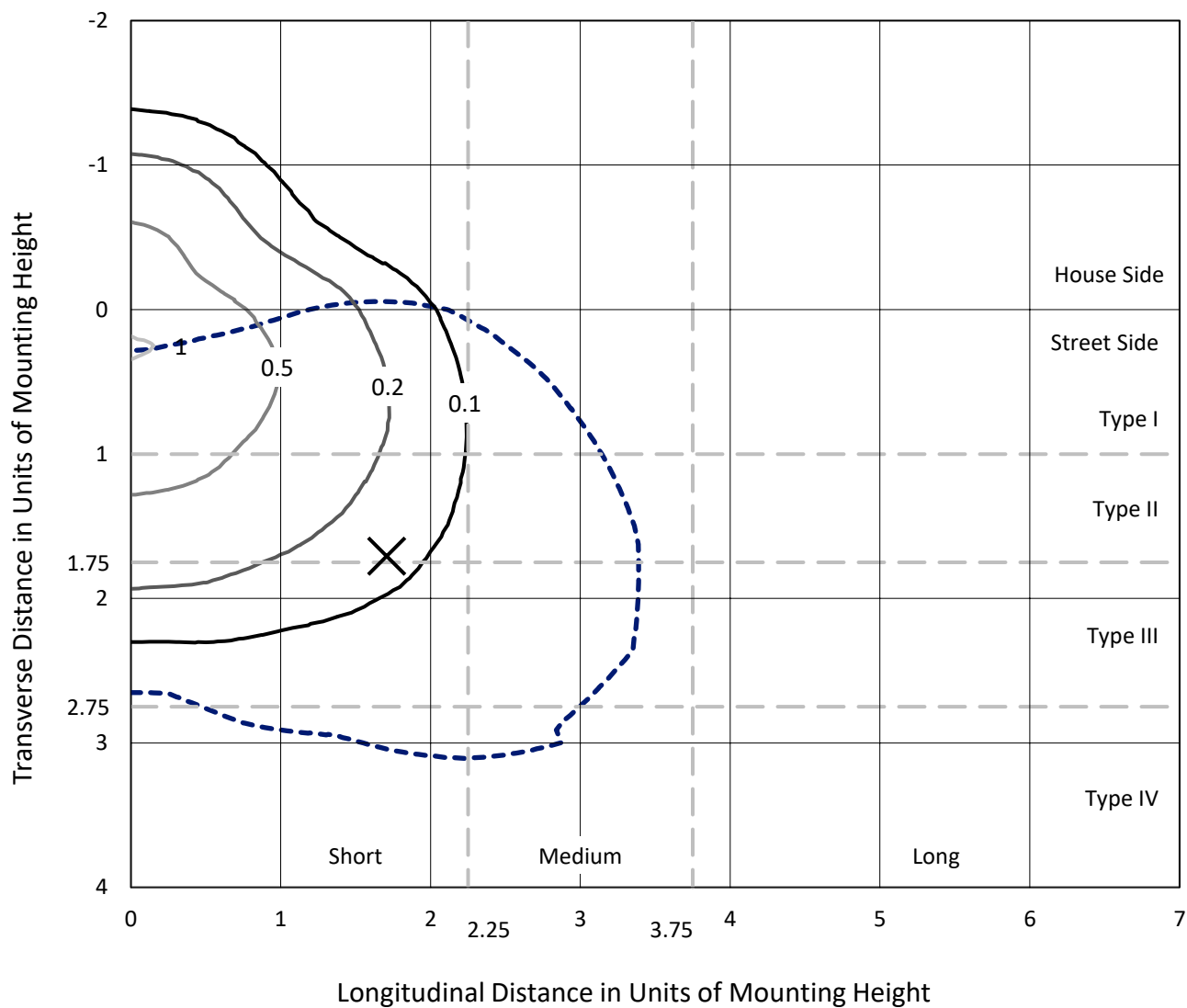
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

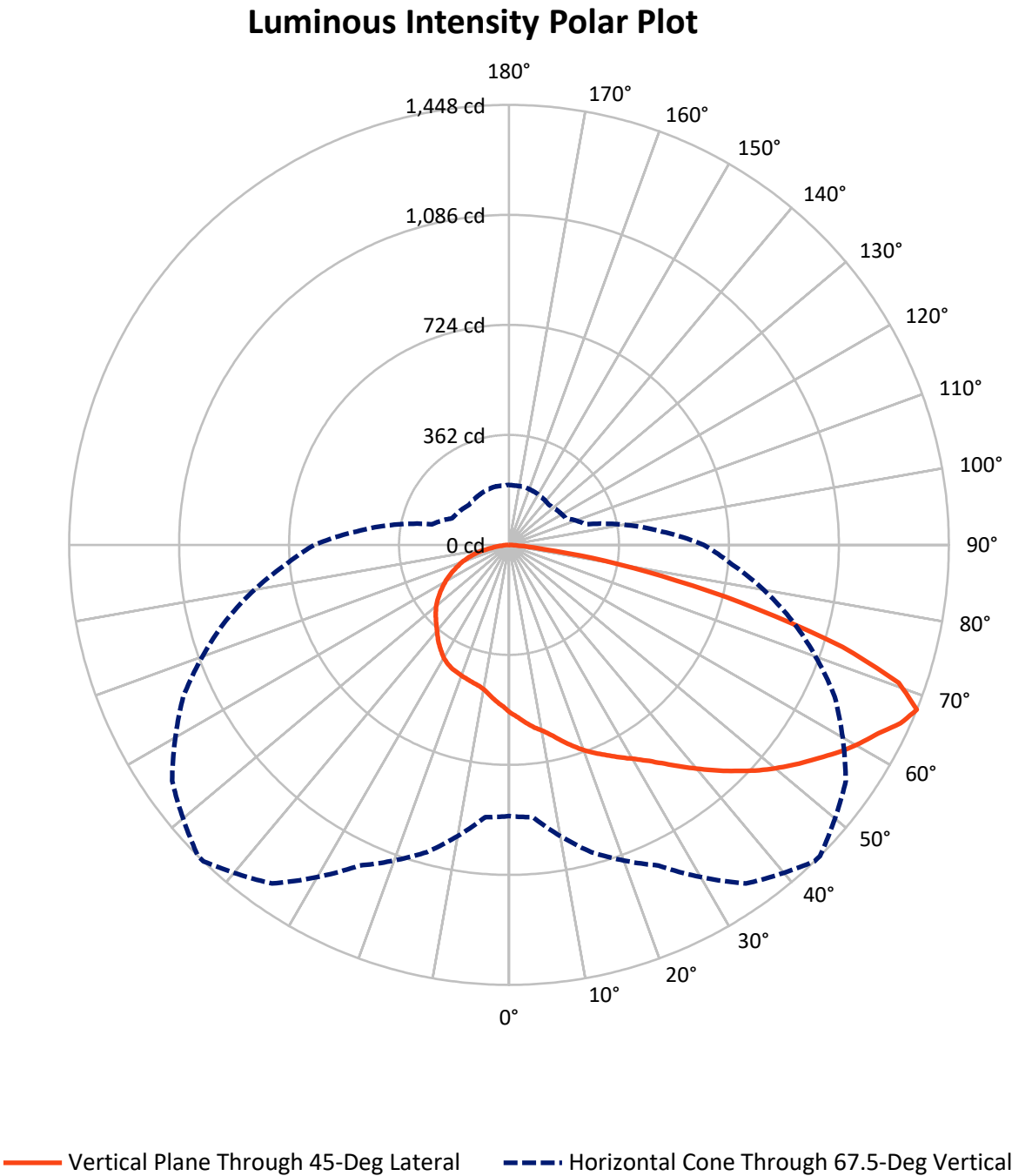
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type IV - Short - N/A

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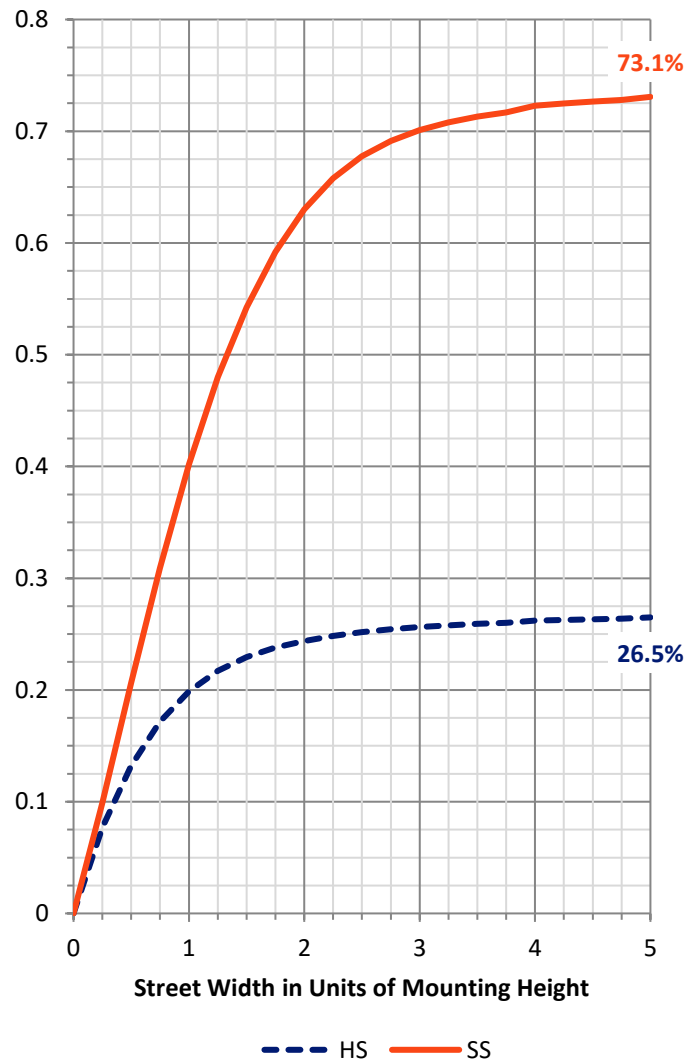
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.8	0.0	884.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	2427.2	0.0	2427.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	3312.0	0.0	3312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.6
10°-20°	163.4	4.9
20°-30°	282.0	8.5
30°-40°	415.9	12.6
40°-50°	563.4	17.0
50°-60°	688.6	20.8
60°-70°	710.2	21.4
70°-80°	389.0	11.7
80°-90°	46.6	1.4
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°	3312.0	100.0
0°-180°	3312.0	100.0

Coefficient of Utilization



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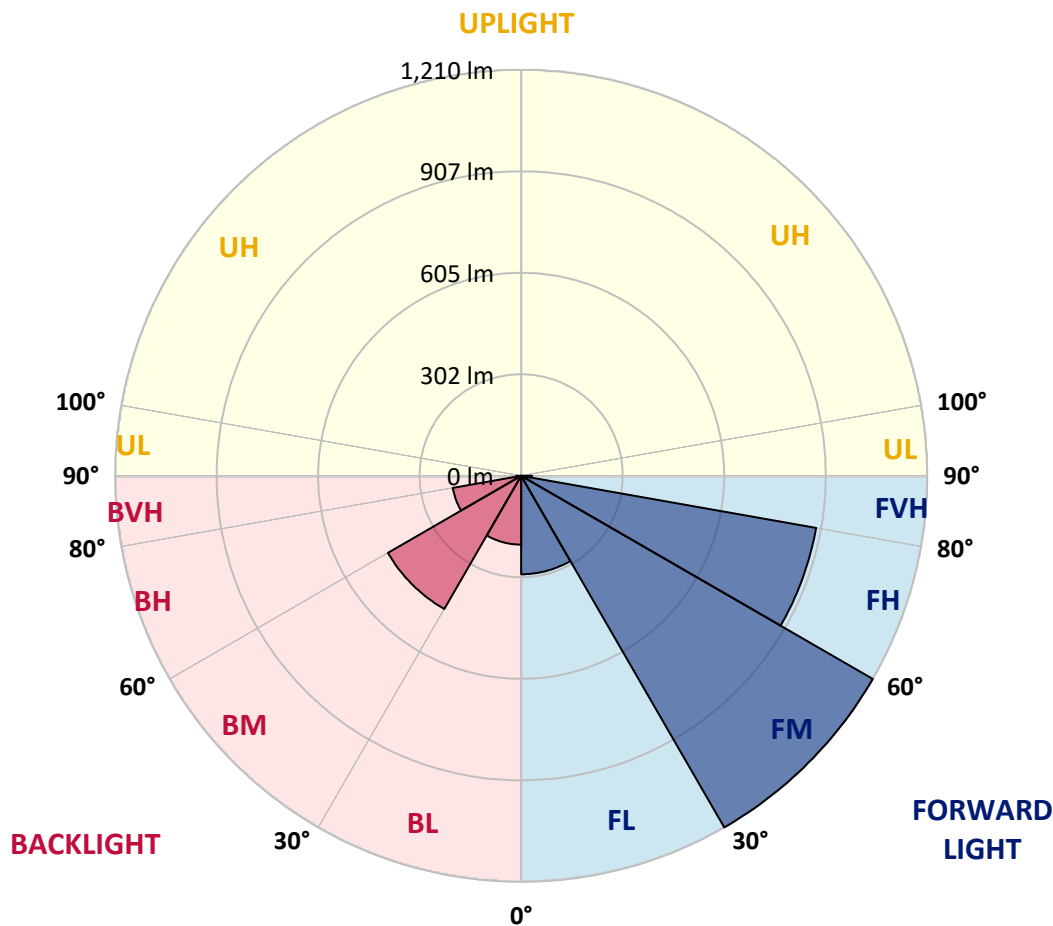
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.2	8.9			
FM	(30°-60°)	1209.6	36.5			
FH	(60°-80°)	892.3	26.9			G1/1800
FVH	(80°-90°)	32.1	1.0			G1/100
BL	(0°-30°)	205.1	6.2	B1/500		
BM	(30°-60°)	458.3	13.8	B1/1000		
BH	(60°-80°)	206.9	6.2	B1/500		G1/500
BVH	(80°-90°)	14.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4
2.5°	576.6	576.1	577.1	573.5	569.0	568.5	568.5	565.5	562.0	554.9	549.4
5°	603.8	602.8	603.3	598.2	592.2	589.2	588.7	582.1	574.1	563.0	552.9
7.5°	629.0	628.0	627.5	621.9	612.9	607.8	607.3	597.7	588.2	571.0	556.4
10°	652.7	651.7	650.7	643.1	632.0	624.5	623.4	611.3	599.3	578.1	559.4
12.5°	682.9	680.9	679.9	670.8	654.7	646.6	645.1	629.0	613.9	588.2	565.5
15°	714.7	713.2	711.6	703.1	684.9	674.3	671.8	651.7	631.0	601.3	574.6
17.5°	738.4	736.8	736.8	729.3	712.6	700.6	698.5	674.3	648.6	613.4	581.6
20°	753.0	751.5	753.0	748.4	735.8	725.8	723.7	697.0	666.3	624.5	587.7
22.5°	763.6	762.0	764.6	762.5	753.5	747.4	745.9	719.7	684.4	636.0	593.7
25°	782.2	782.2	782.2	778.7	770.1	768.1	768.1	745.4	707.6	651.2	602.8
27.5°	819.5	817.5	815.0	804.9	790.3	789.8	792.8	771.6	734.3	670.8	613.9
30°	874.4	873.4	863.8	842.7	818.0	815.5	817.5	799.8	763.0	691.5	626.5
32.5°	945.5	942.0	922.3	890.6	855.3	843.7	847.7	829.1	793.3	712.6	638.6
35°	995.9	996.9	982.8	954.1	912.2	881.5	884.5	861.8	826.0	736.3	653.7
37.5°	1053.9	1057.4	1036.2	1014.5	975.7	923.3	926.3	895.6	858.8	766.1	669.8
40°	1134.0	1126.9	1091.1	1065.4	1022.6	967.2	969.7	933.4	896.6	794.3	688.5
42.5°	1201.0	1188.4	1145.1	1112.3	1060.9	1013.5	1016.1	974.2	934.9	825.5	709.1
45°	1297.3	1262.5	1200.0	1183.9	1100.2	1058.9	1061.4	1017.6	975.2	858.8	731.3
47.5°	1353.2	1297.8	1258.0	1249.4	1143.6	1105.8	1108.8	1063.4	1018.6	896.6	754.5
50°	1349.7	1313.9	1302.3	1281.2	1181.9	1149.6	1152.6	1110.8	1062.4	933.9	776.7
52.5°	1326.5	1333.1	1327.0	1291.7	1220.2	1191.9	1195.5	1157.7	1107.3	968.7	797.3
55°	1362.3	1366.8	1355.2	1308.9	1262.5	1234.3	1238.3	1207.1	1151.6	999.4	815.0
57.5°	1405.1	1389.0	1377.4	1339.1	1306.4	1280.1	1284.7	1257.5	1189.9	1024.1	828.6
60°	1403.1	1369.4	1380.9	1341.1	1336.1	1322.5	1326.5	1298.8	1219.2	1042.3	834.1
62.5°	1299.8	1281.7	1340.1	1326.5	1360.3	1360.3	1365.3	1324.0	1236.8	1049.8	831.1
65°	1120.4	1121.4	1224.2	1280.7	1389.0	1412.2	1416.2	1339.6	1226.7	1027.6	802.9
67.5°	892.6	899.1	1046.8	1164.2	1360.3	1447.5	1448.0	1353.7	1183.4	965.2	737.3
70°	653.2	658.2	832.6	975.2	1224.7	1369.4	1361.3	1313.9	1089.1	856.3	635.0
72.5°	441.5	446.0	625.5	748.9	1005.0	1166.2	1148.6	1161.2	928.4	703.6	510.5
75°	296.9	302.4	445.0	535.7	739.4	885.5	846.2	879.5	718.2	532.7	372.5
77.5°	187.0	190.5	282.7	351.3	505.0	602.8	563.5	564.0	413.8	286.8	200.1
80°	118.9	120.0	171.4	202.6	292.3	362.4	320.5	260.6	186.5	152.2	119.4
82.5°	69.0	67.5	102.3	114.4	139.1	137.6	113.9	107.9	81.6	76.1	61.0
85°	27.7	25.7	44.9	41.8	42.3	44.9	33.3	33.3	26.7	20.7	15.1
87.5°	5.5	5.5	6.0	5.5	5.5	6.0	4.5	4.5	4.0	4.0	4.0
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°	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4
2.5°	548.3	547.3	544.8	538.3	534.7	532.7	529.7	528.7	528.2	528.7	530.2
5°	549.9	546.3	539.3	528.7	521.6	517.1	512.1	510.0	508.5	508.5	510.0
7.5°	550.9	545.3	533.2	517.6	507.5	500.5	494.4	491.9	491.4	492.9	493.4
10°	551.4	543.3	526.2	506.5	493.4	484.3	478.3	476.8	478.3	481.3	481.8
12.5°	554.9	543.8	522.1	499.0	483.3	474.3	469.7	469.7	473.8	479.3	479.8
15°	560.9	547.3	520.1	492.9	476.8	468.7	467.2	469.7	475.8	484.3	485.3
17.5°	565.5	549.4	515.6	484.8	468.2	463.2	465.7	471.7	480.3	491.9	492.9
20°	568.5	549.4	509.0	475.3	459.6	458.6	465.7	475.3	484.3	497.9	499.5
22.5°	571.5	548.3	501.5	463.7	450.1	453.1	466.2	478.3	487.4	502.0	504.5
25°	577.1	549.9	493.9	452.1	440.0	448.6	465.7	480.3	489.9	505.0	509.0
27.5°	584.6	553.4	488.4	441.5	429.9	441.5	462.2	479.8	489.9	504.5	509.0
30°	592.7	557.4	481.8	429.9	418.3	431.4	454.6	474.3	485.9	499.5	505.0
32.5°	601.3	562.0	476.3	417.3	404.2	417.8	443.5	465.7	478.3	490.9	496.9
35°	612.9	570.0	473.3	407.2	391.6	403.7	429.4	454.6	468.2	479.8	486.9
37.5°	627.0	580.1	471.7	397.1	378.0	388.1	414.3	441.0	455.6	465.2	471.7
40°	643.1	592.7	471.2	387.6	364.4	371.9	398.7	425.4	439.5	447.0	452.6
42.5°	661.2	606.8	470.2	378.0	350.8	356.8	383.5	409.7	421.8	428.4	433.4
45°	680.4	620.9	468.2	366.4	336.2	343.2	367.9	391.1	403.7	409.2	414.8
47.5°	699.5	635.0	464.2	353.3	323.1	329.6	351.3	371.4	381.5	386.6	392.1
50°	718.2	647.6	454.6	338.2	309.5	315.5	332.1	345.7	353.3	357.3	362.9
52.5°	734.8	656.2	441.0	320.5	295.8	298.9	310.0	321.5	327.6	328.1	333.1
55°	748.9	660.7	421.3	302.4	281.2	281.7	287.8	296.9	299.4	297.4	300.9
57.5°	757.0	658.2	399.7	283.7	266.1	264.1	268.6	273.2	273.7	268.6	272.2
60°	759.0	646.6	371.4	265.1	251.0	245.4	247.0	245.9	244.9	242.9	245.9
62.5°	748.9	621.9	340.2	247.0	234.9	226.3	225.8	225.3	226.8	227.3	227.8
65°	712.1	575.6	302.9	228.3	217.7	206.1	205.6	211.7	213.7	210.7	211.7
67.5°	641.1	504.5	262.1	206.6	196.1	186.0	190.0	193.5	197.1	196.1	197.1
70°	540.3	414.3	224.8	182.4	172.4	166.8	171.4	174.4	174.9	173.9	174.9
72.5°	424.9	323.6	190.0	157.8	148.7	146.2	151.7	154.2	158.8	160.8	161.3
75°	306.9	238.9	155.7	131.0	123.5	123.5	128.5	133.1	137.1	134.6	133.1
77.5°	171.4	142.6	111.9	90.2	91.7	98.8	100.8	105.8	109.9	109.4	108.4
80°	103.8	89.2	75.6	58.5	58.0	63.5	76.6	85.2	87.2	82.7	82.2
82.5°	53.9	46.9	40.3	32.8	36.3	42.3	44.4	53.4	59.0	57.0	59.5
85°	13.6	13.1	14.6	15.1	18.6	20.7	22.7	26.7	17.6	8.6	8.6
87.5°	4.0	4.0	5.0	5.0	6.6	8.1	7.6	7.6	4.0	0.5	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)