

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: P798581

Luminaire Tested: **ARCH1-20-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011 lumens
Efficiency: N/A
Efficacy: 128.1 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

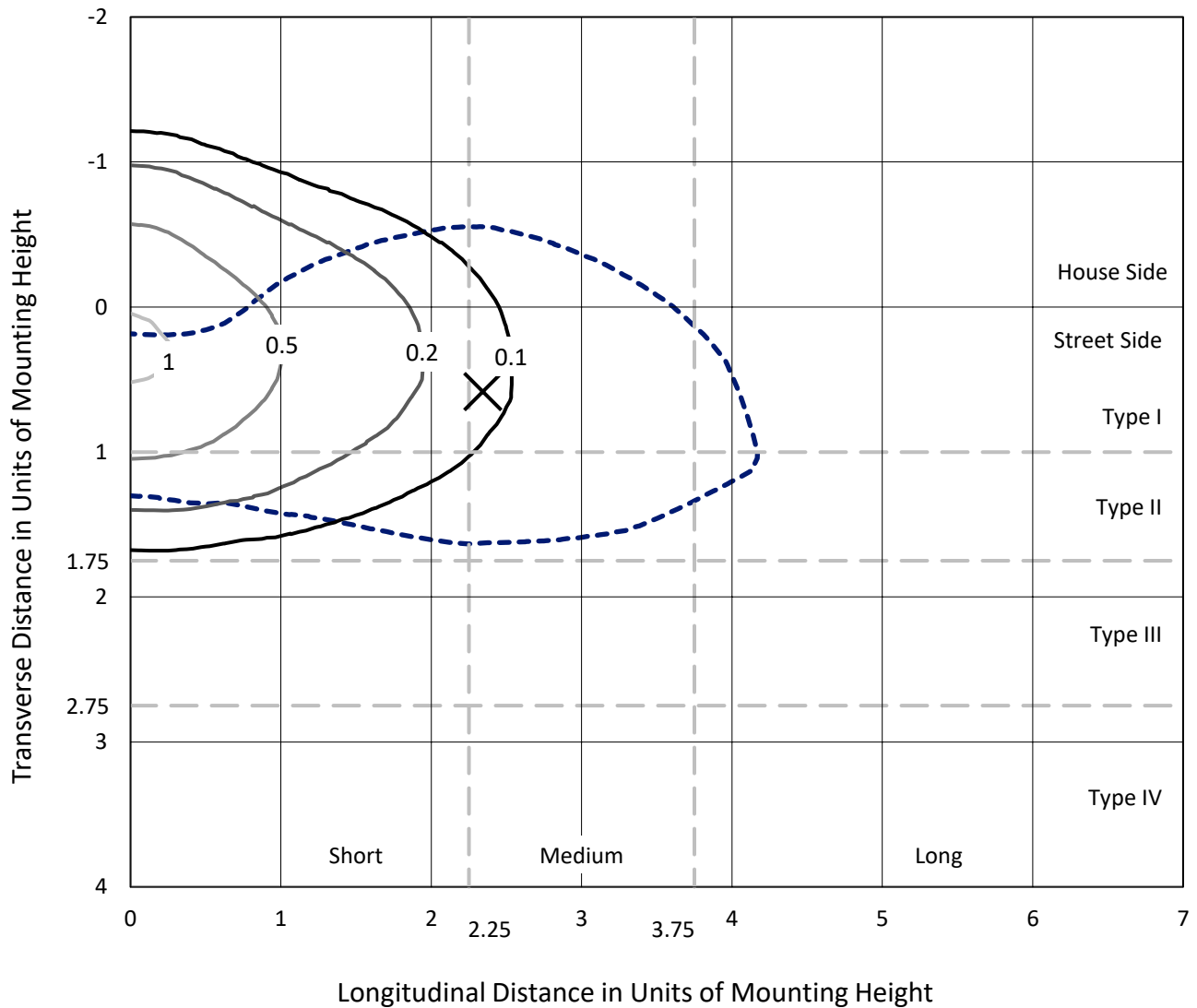
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

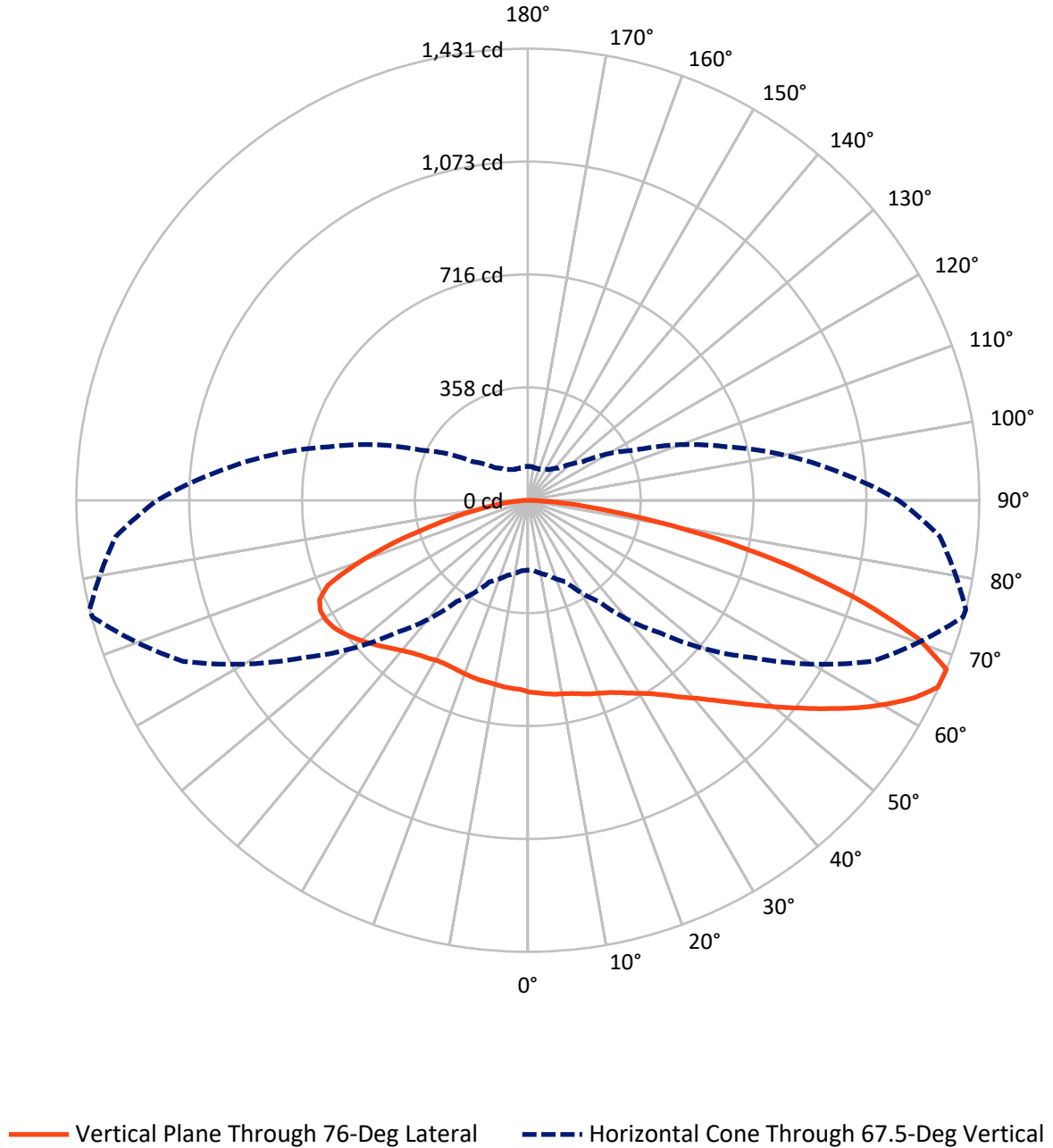
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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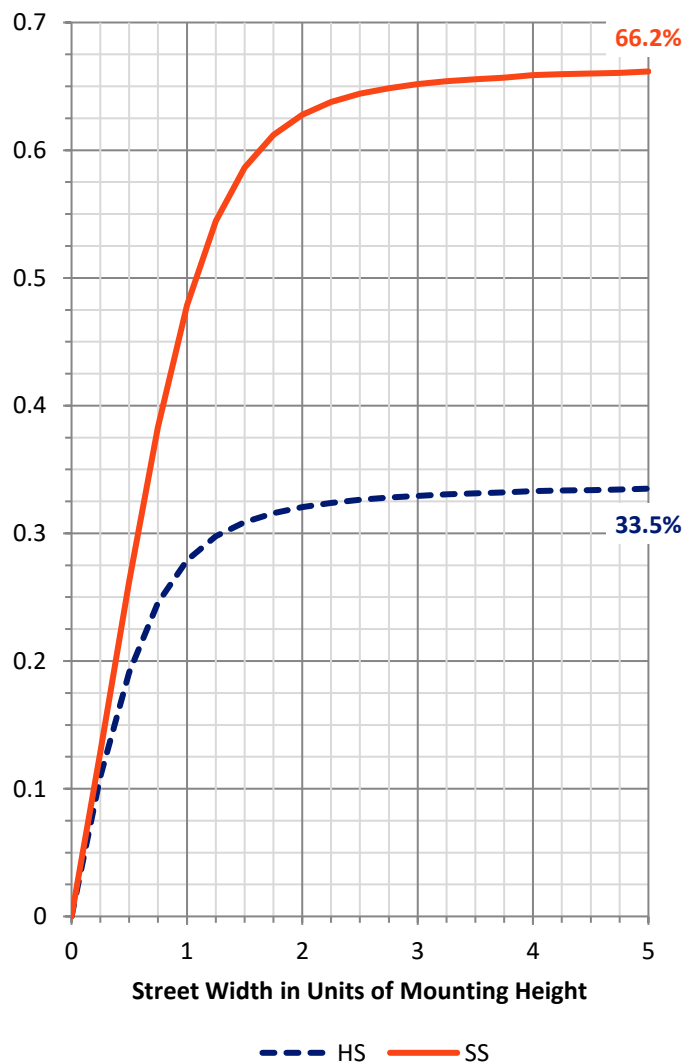
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.4	0.0	1017.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	1993.6	0.0	1993.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	3011.0	0.0	3011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.9
10°-20°	179.3	6.0
20°-30°	304.6	10.1
30°-40°	433.5	14.4
40°-50°	547.4	18.2
50°-60°	592.7	19.7
60°-70°	551.3	18.3
70°-80°	296.1	9.8
80°-90°	47.4	1.6
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°	3011.0	100.0
0°-180°	3011.0	100.0

Coefficient of Utilization



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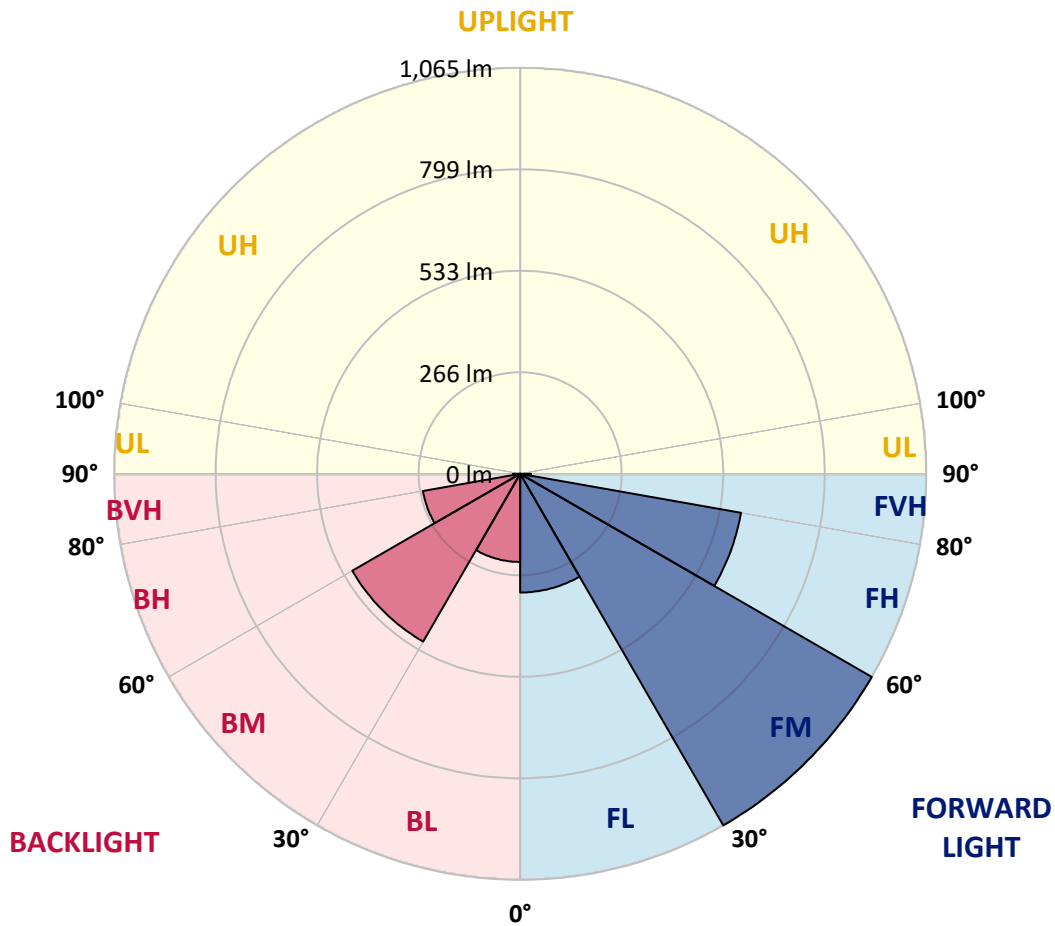
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.4	10.3			
FM (30°-60°)	1065.2	35.4			
FH (60°-80°)	588.3	19.5			G0/660
FVH (80°-90°)	28.7	1.0			G1/100
BL (0°-30°)	231.2	7.7	B1/500		
BM (30°-60°)	508.4	16.9	B1/1000		
BH (60°-80°)	259.0	8.6	B1/500		G1/500
BVH (80°-90°)	18.7	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	626.7	625.5	621.1	621.6	621.6	621.1	614.4	611.6	611.6	611.0	604.9
5°	649.0	647.3	642.3	641.2	639.0	636.2	625.5	619.4	616.6	616.0	607.7
7.5°	675.3	673.1	666.9	663.6	658.0	650.7	637.3	627.8	621.1	620.5	608.8
10°	701.6	699.3	692.1	685.9	678.1	666.4	649.0	635.0	624.4	623.3	609.3
12.5°	732.9	730.6	721.7	713.9	702.1	686.5	663.6	644.6	630.0	628.3	611.0
15°	765.9	762.5	753.6	744.6	730.1	710.0	682.6	657.4	639.0	636.2	616.0
17.5°	793.3	788.8	781.5	772.6	756.4	732.9	701.6	670.3	647.3	645.1	621.1
20°	816.7	813.4	805.5	797.2	779.8	754.1	719.5	683.1	655.2	652.4	625.0
22.5°	839.1	834.6	830.1	824.0	805.0	776.5	740.1	698.8	665.2	661.9	630.0
25°	864.8	859.8	858.1	854.7	832.4	803.3	765.3	718.3	679.2	675.3	639.0
27.5°	896.7	891.1	887.7	887.7	860.9	830.7	792.1	741.3	695.4	692.1	650.1
30°	930.2	923.5	918.5	918.5	888.3	858.1	818.4	764.2	713.9	710.0	664.7
32.5°	959.8	953.1	947.5	947.0	915.7	885.5	845.8	789.3	736.2	731.2	682.6
35°	982.8	976.6	971.6	972.7	943.1	913.4	876.5	822.9	764.2	758.6	706.0
37.5°	996.7	994.5	991.7	995.6	968.2	940.3	908.4	855.3	796.0	791.0	735.1
40°	1004.0	1002.3	1013.5	1018.5	989.5	964.3	940.3	888.8	830.7	825.1	768.7
42.5°	1014.6	1028.6	1033.1	1032.0	1005.1	982.8	969.3	925.2	871.5	866.5	808.9
45°	976.6	973.3	997.9	1011.3	1006.2	994.5	996.7	968.8	919.0	914.0	855.3
47.5°	925.7	921.3	935.2	968.2	987.8	999.0	1021.3	1014.1	973.8	969.3	909.5
50°	818.4	824.6	876.5	920.7	959.3	997.9	1042.0	1062.7	1034.2	1029.7	967.7
52.5°	699.3	705.5	759.7	861.5	924.6	989.5	1057.1	1111.3	1099.6	1094.6	1029.7
55°	612.7	626.1	687.6	761.4	875.4	963.2	1066.1	1161.1	1170.0	1165.6	1097.4
57.5°	526.6	536.7	583.1	648.5	808.3	917.4	1065.5	1207.5	1243.8	1239.4	1166.1
60°	425.4	438.3	475.2	545.6	718.9	862.6	1049.8	1243.8	1314.8	1311.5	1232.6
62.5°	356.1	360.0	386.3	447.2	603.7	793.3	1014.6	1263.4	1379.1	1376.9	1292.5
65°	286.8	287.3	311.4	362.2	492.5	707.2	954.8	1256.1	1427.7	1428.9	1335.5
67.5°	221.4	224.2	246.0	284.5	391.3	595.4	869.3	1206.9	1428.3	1431.1	1310.9
70°	153.2	155.4	188.4	225.8	302.4	474.6	753.6	1076.7	1310.9	1313.1	1175.1
72.5°	107.9	109.0	144.2	180.6	236.5	357.8	568.5	890.5	1117.5	1119.2	988.3
75°	80.5	81.6	101.7	137.0	181.1	247.6	388.5	682.0	892.8	892.8	780.4
77.5°	57.0	57.6	66.0	94.5	120.7	167.1	233.7	446.7	655.2	656.3	568.5
80°	38.6	39.1	43.0	63.7	75.5	90.6	126.9	234.2	413.1	414.8	361.1
82.5°	20.1	21.2	24.0	32.4	38.0	50.3	65.4	119.1	228.6	233.1	216.9
85°	7.8	7.8	8.9	10.6	14.0	19.6	30.2	45.3	103.4	106.8	95.6
87.5°	2.8	2.8	3.4	3.4	3.9	4.5	5.0	6.7	11.7	11.7	11.2
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°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	602.6	602.6	599.8	600.9	600.4	599.3	598.2	599.8	598.2	594.2	593.7
5°	603.7	602.6	598.2	597.6	595.9	593.7	590.9	592.0	589.2	585.9	585.3
7.5°	604.3	602.1	595.9	593.7	590.3	585.9	581.4	581.4	577.5	574.1	573.6
10°	603.2	600.4	592.0	587.5	581.4	574.7	568.5	566.8	562.4	558.5	558.5
12.5°	603.7	599.8	589.2	581.9	573.6	565.2	557.3	555.1	551.2	547.3	546.7
15°	607.1	601.5	588.1	578.6	566.3	556.8	548.4	546.7	543.4	540.6	540.6
17.5°	610.5	603.2	586.4	573.0	557.9	547.3	539.5	539.5	537.2	535.5	535.5
20°	612.1	603.7	583.1	565.2	547.8	536.7	529.4	530.5	530.0	529.4	529.4
22.5°	616.0	604.9	580.3	557.9	537.2	525.5	518.8	520.4	519.9	519.9	520.4
25°	622.2	607.7	578.0	551.2	527.2	514.3	507.0	508.2	508.2	508.2	508.2
27.5°	630.6	613.2	577.5	545.0	517.1	502.6	493.6	493.6	491.4	491.9	492.5
30°	643.4	623.9	578.6	539.5	506.5	488.0	477.4	475.7	475.2	476.3	476.8
32.5°	659.1	638.4	585.3	535.5	495.3	471.8	458.4	457.8	456.2	456.2	456.2
35°	678.7	652.4	591.4	535.0	484.1	454.5	439.9	438.3	434.4	432.7	432.7
37.5°	703.8	674.2	598.7	531.1	474.6	437.7	420.4	414.8	410.3	409.8	409.8
40°	734.6	698.8	609.3	526.6	464.5	420.4	397.5	388.0	388.5	390.8	390.8
42.5°	770.9	729.0	622.7	524.4	450.0	402.5	370.6	359.5	363.4	365.6	366.2
45°	813.4	764.7	637.8	521.6	436.6	382.4	342.1	328.1	329.8	330.4	330.9
47.5°	862.6	804.4	653.5	519.3	421.5	357.2	310.8	292.4	291.8	288.5	289.6
50°	914.0	846.4	669.7	515.4	403.1	327.6	277.8	256.0	251.6	246.5	247.1
52.5°	968.8	889.4	684.8	509.3	380.1	297.4	246.5	223.0	214.1	208.5	209.6
55°	1029.2	933.6	699.3	499.8	356.1	267.2	218.6	194.5	183.4	178.9	179.4
57.5°	1084.5	976.1	710.0	488.0	329.8	239.8	194.0	170.5	163.2	162.7	163.2
60°	1138.2	1011.8	714.4	471.8	303.0	214.7	171.1	153.2	148.1	150.9	151.5
62.5°	1183.4	1034.7	712.2	450.0	275.6	190.6	152.6	139.8	136.4	142.0	142.6
65°	1209.7	1042.0	696.5	418.7	246.0	167.1	135.3	121.3	119.6	123.0	124.7
67.5°	1175.1	996.7	654.1	375.7	213.0	145.3	118.5	107.3	104.5	107.3	107.3
70°	1041.5	863.7	553.4	307.5	176.7	124.1	102.9	95.0	92.8	95.0	94.5
72.5°	867.6	718.3	436.0	239.8	139.2	104.5	89.4	82.2	79.9	77.7	76.6
75°	673.1	545.6	316.4	176.1	105.1	83.9	74.9	68.2	62.6	64.8	63.7
77.5°	493.1	382.9	224.2	121.9	75.5	64.8	58.7	53.7	49.8	54.2	53.7
80°	317.5	247.6	149.8	81.6	52.0	45.3	43.0	40.2	44.2	57.6	58.7
82.5°	194.0	157.1	89.4	53.1	34.1	30.2	28.0	28.0	45.3	49.8	50.3
85°	86.6	83.3	48.6	27.4	19.0	17.3	15.7	20.1	18.4	13.4	14.0
87.5°	14.0	14.5	10.6	9.5	7.3	7.3	5.6	3.9	2.8	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)