

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: P573117

Luminaire Tested: **ARCH-S-PA2-30-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4169 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

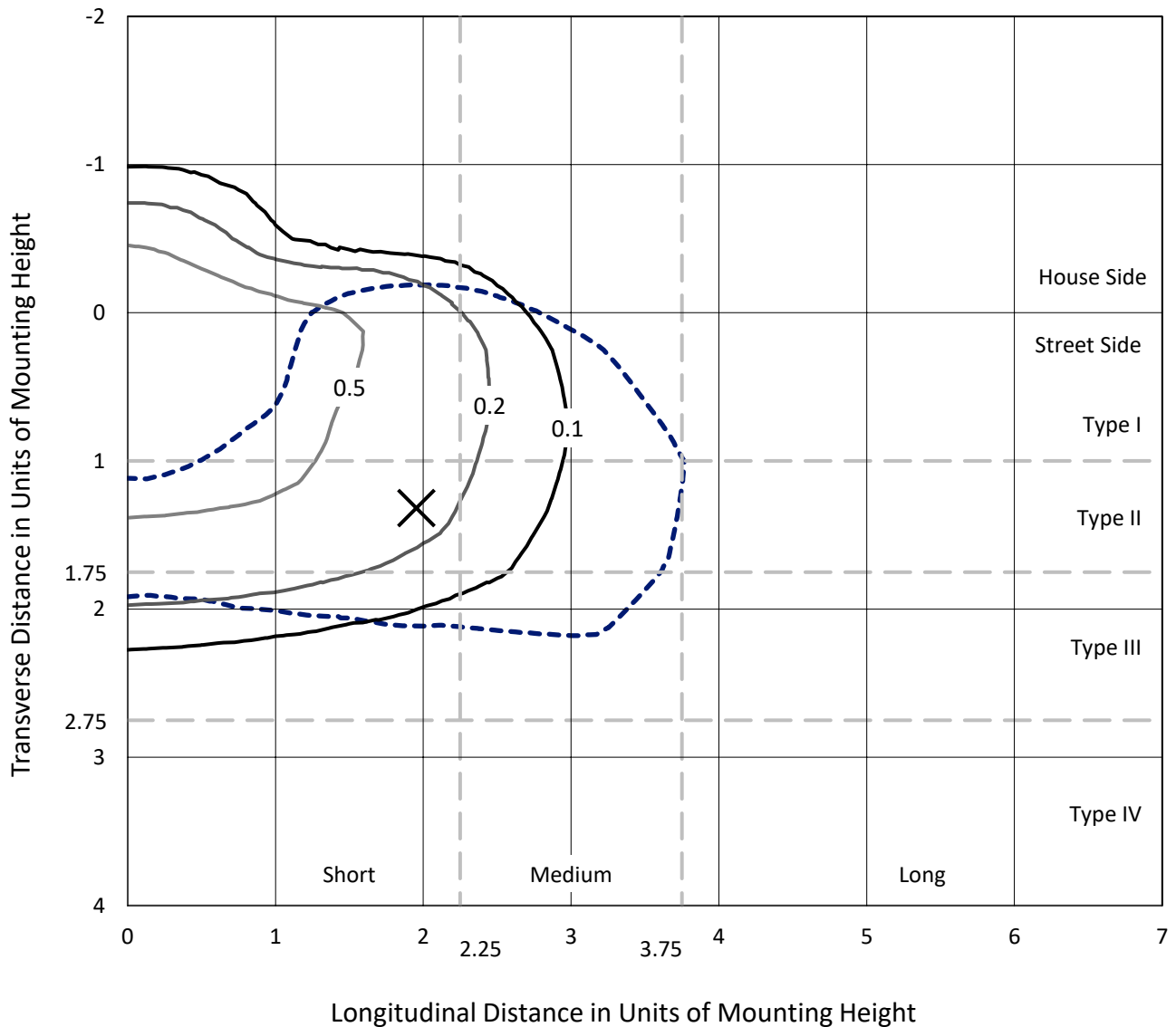
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

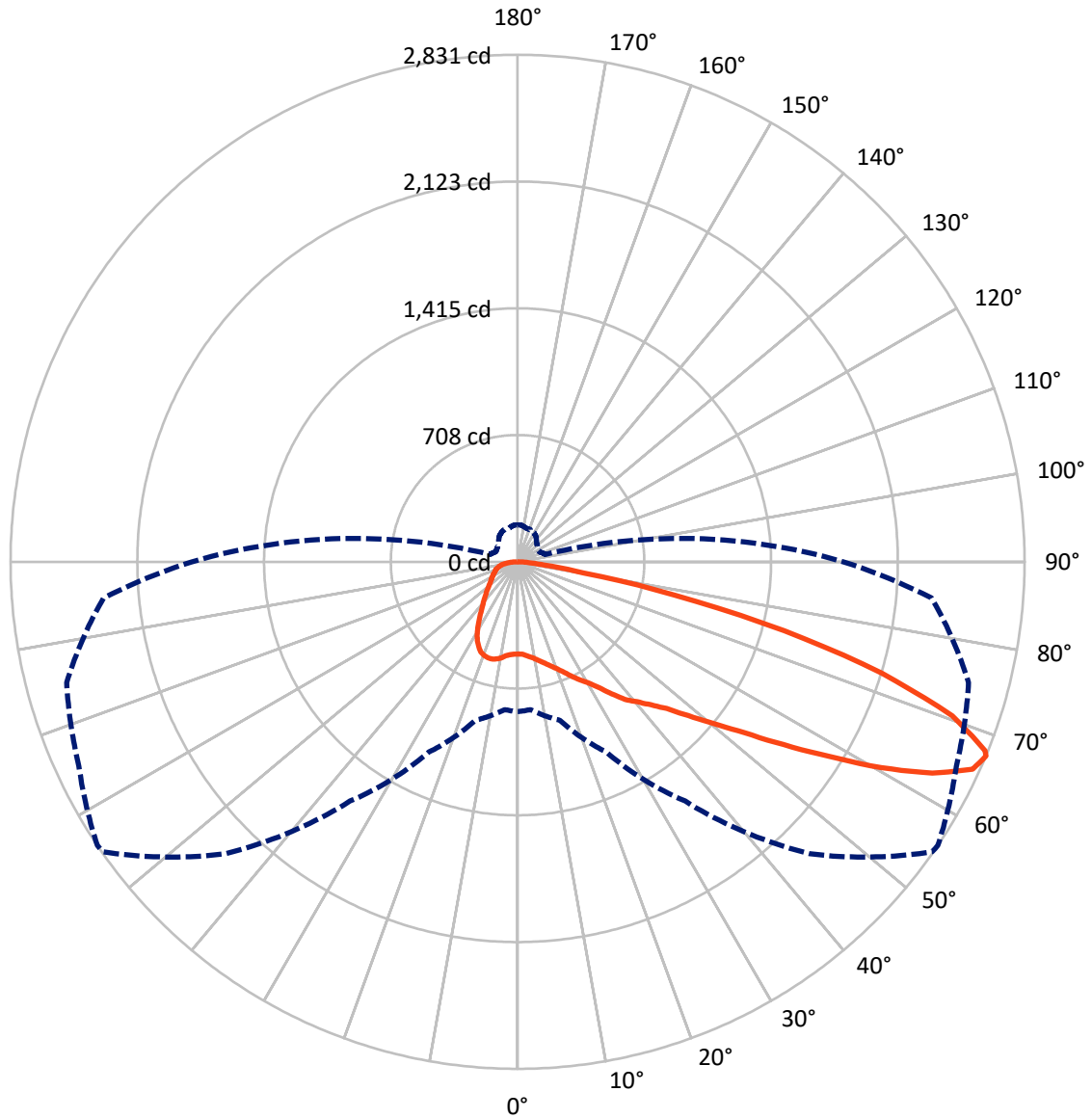
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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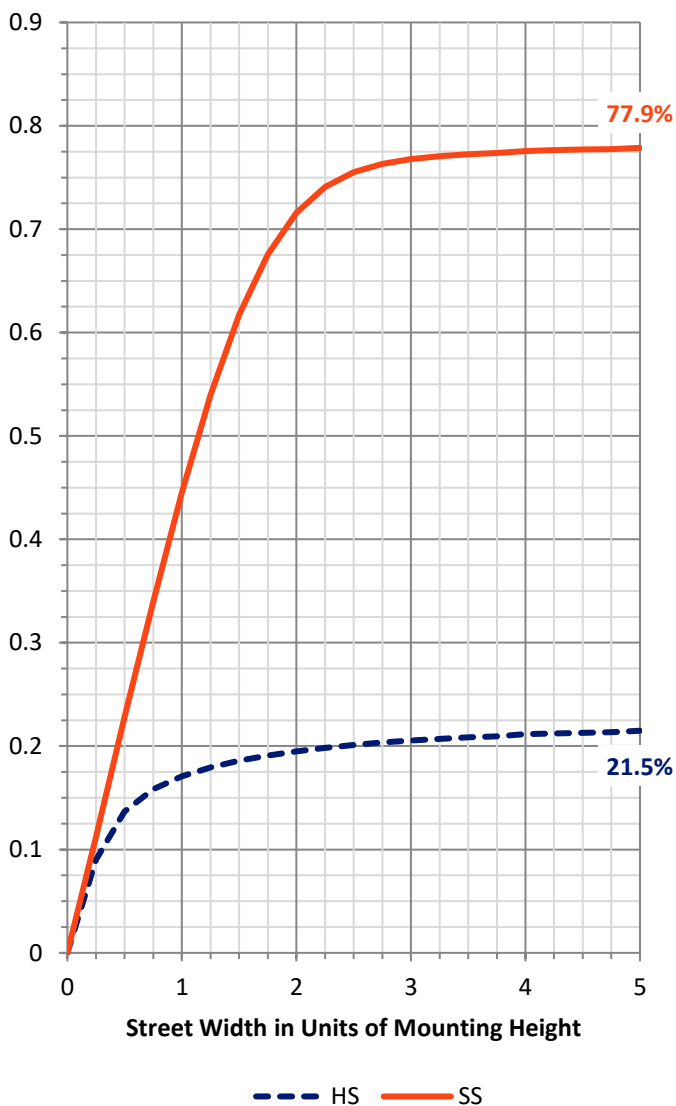
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.1	0.0	912.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3256.9	0.0	3256.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	4169.0	0.0	4169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.2
10°-20°	162.4	3.9
20°-30°	282.6	6.8
30°-40°	414.4	9.9
40°-50°	606.3	14.5
50°-60°	947.6	22.7
60°-70°	1126.3	27.0
70°-80°	512.9	12.3
80°-90°	65.8	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°	4169.0	100.0
0°-180°	4169.0	100.0

Coefficient of Utilization



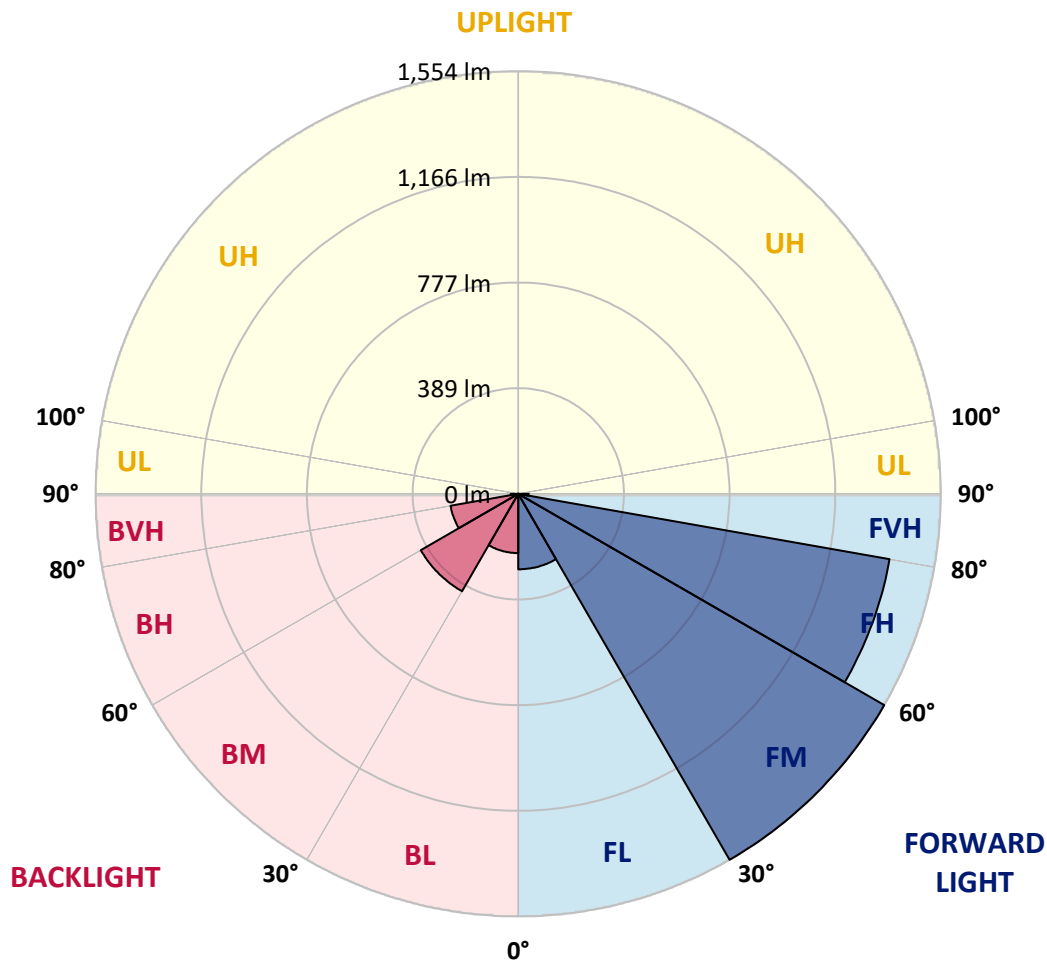
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.7	6.7			
FM (30°-60°)	1554.3	37.3			
FH (60°-80°)	1386.5	33.3			G1/1800
FVH (80°-90°)	38.4	0.9			G1/100
BL (0°-30°)	218.0	5.2	B1/500		
BM (30°-60°)	414.0	9.9	B1/1000		
BH (60°-80°)	252.7	6.1	B1/500		G1/500
BVH (80°-90°)	27.4	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7
2.5°	522.6	520.4	519.2	520.4	519.2	517.0	518.1	517.0	515.8	514.7	514.7
5°	529.4	527.1	526.0	527.1	528.3	526.0	526.0	526.0	522.6	521.5	519.2
7.5°	533.9	530.5	530.5	532.8	535.0	536.2	538.4	537.3	533.9	531.6	527.1
10°	548.6	544.1	544.1	544.1	546.3	548.6	550.8	552.0	550.8	549.7	546.3
12.5°	571.1	566.6	566.6	566.6	566.6	565.5	568.9	570.0	572.3	572.3	566.6
15°	601.6	596.0	593.7	589.2	588.1	585.8	590.3	590.3	593.7	594.8	589.2
17.5°	631.0	624.2	621.9	617.4	612.9	607.3	611.8	612.9	619.7	620.8	611.8
20°	661.4	659.2	655.8	649.0	641.1	635.5	640.0	638.9	644.5	646.8	635.5
22.5°	701.0	695.3	693.1	684.0	675.0	669.3	669.3	671.6	677.2	677.2	660.3
25°	748.4	740.5	734.8	724.7	713.4	706.6	707.7	710.0	717.9	712.2	686.3
27.5°	807.1	799.2	791.3	770.9	759.6	746.1	745.0	747.2	759.6	745.0	711.1
30°	862.4	859.0	852.2	836.4	818.3	795.8	785.6	786.7	795.8	775.4	732.6
32.5°	909.8	905.3	901.9	890.6	878.2	851.1	837.5	838.7	837.5	812.7	758.5
35°	966.2	959.4	957.2	947.0	931.2	913.2	907.5	905.3	898.5	864.6	792.4
37.5°	1020.4	1013.6	1010.2	1004.6	992.2	976.4	976.4	975.2	961.7	914.3	826.2
40°	1084.7	1076.8	1066.7	1063.3	1053.1	1041.8	1032.8	1027.2	1003.5	960.6	891.7
42.5°	1162.6	1158.1	1152.4	1137.8	1122.0	1119.7	1093.8	1091.5	1074.6	1049.7	984.3
45°	1274.4	1265.3	1257.4	1252.9	1233.7	1213.4	1177.3	1168.3	1168.3	1162.6	1092.6
47.5°	1387.2	1371.4	1382.7	1379.3	1374.8	1352.2	1282.3	1283.4	1281.1	1295.8	1251.8
50°	1462.9	1453.8	1485.4	1500.1	1531.7	1531.7	1431.2	1418.8	1427.9	1470.8	1414.3
52.5°	1521.5	1515.9	1552.0	1609.6	1703.3	1712.3	1608.5	1582.5	1594.9	1655.9	1633.3
55°	1569.0	1563.3	1605.1	1705.5	1855.7	1911.0	1812.8	1801.5	1776.6	1842.1	1848.9
57.5°	1597.2	1584.8	1648.0	1782.3	1979.8	2107.4	2052.1	2048.7	1991.1	2052.1	2082.5
60°	1554.3	1546.4	1633.3	1813.9	2080.3	2292.5	2333.1	2333.1	2230.4	2263.1	2300.4
62.5°	1415.4	1405.3	1496.7	1740.5	2092.7	2443.7	2611.9	2598.4	2460.7	2459.5	2426.8
65°	1151.3	1138.9	1241.6	1499.0	1935.8	2461.8	2800.4	2792.5	2633.4	2588.2	2434.7
67°	836.4	828.5	916.5	1171.6	1631.0	2304.9	2824.1	2830.9	2702.2	2606.3	2320.7
67.5°	750.6	749.5	822.9	1075.7	1541.9	2247.3	2808.3	2815.1	2701.1	2591.6	2275.6
70°	349.9	365.7	434.6	616.3	1039.6	1769.9	2548.7	2574.7	2556.6	2422.3	1916.6
72.5°	162.5	169.3	199.8	298.0	558.7	1141.2	2065.6	2127.7	2206.7	2078.0	1518.2
75°	100.5	102.7	119.6	154.6	263.0	548.6	1470.8	1538.5	1658.1	1563.3	970.7
77.5°	79.0	80.1	91.4	110.6	153.5	235.9	807.1	891.7	1047.5	924.4	488.7
80°	58.7	61.0	70.0	85.8	108.4	120.8	343.1	374.7	505.7	387.2	203.2
82.5°	42.9	45.1	54.2	62.1	75.6	76.8	140.0	147.9	216.7	156.9	88.0
85°	36.1	36.1	41.8	46.3	50.8	42.9	68.9	67.7	83.5	71.1	35.0
87.5°	16.9	18.1	39.5	29.3	24.8	18.1	20.3	21.4	26.0	28.2	13.5
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°	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7
2.5°	513.6	513.6	513.6	514.7	515.8	515.8	517.0	517.0	518.1	519.2	521.5
5°	518.1	518.1	517.0	518.1	520.4	521.5	523.7	526.0	528.3	530.5	531.6
7.5°	527.1	526.0	526.0	526.0	528.3	530.5	533.9	536.2	539.5	540.7	542.9
10°	544.1	541.8	541.8	542.9	544.1	540.7	539.5	538.4	541.8	544.1	546.3
12.5°	564.4	562.1	561.0	557.6	553.1	546.3	540.7	536.2	537.3	539.5	542.9
15°	585.8	581.3	579.0	571.1	559.9	545.2	536.2	530.5	530.5	530.5	533.9
17.5°	608.4	603.9	594.8	580.2	558.7	538.4	527.1	517.0	512.5	511.3	513.6
20°	629.8	623.1	608.4	585.8	552.0	524.9	510.2	493.3	486.5	482.0	484.2
22.5°	650.2	641.1	620.8	585.8	540.7	504.5	478.6	456.0	444.7	442.5	443.6
25°	671.6	660.3	633.2	579.0	515.8	474.1	438.0	414.2	399.6	397.3	400.7
27.5°	693.1	676.1	643.4	561.0	487.6	432.3	393.9	371.4	363.5	358.9	360.1
30°	711.1	695.3	653.5	536.2	449.2	383.8	348.8	338.6	333.0	330.7	330.7
32.5°	734.8	720.1	660.3	506.8	404.1	339.8	317.2	309.3	304.8	299.1	300.2
35°	764.2	750.6	656.9	469.6	361.2	310.4	292.3	281.1	270.9	263.0	261.9
37.5°	803.7	793.5	640.0	424.4	321.7	289.0	270.9	256.2	241.6	229.1	226.9
40°	869.1	845.4	615.2	374.7	294.6	272.0	250.6	232.5	214.5	200.9	197.5
42.5°	952.7	903.0	581.3	324.0	272.0	254.0	232.5	208.8	191.9	179.5	179.5
45°	1049.7	965.1	540.7	285.6	248.3	235.9	209.9	189.6	179.5	171.6	170.4
47.5°	1164.9	1027.2	488.7	255.1	229.1	220.1	194.1	181.7	175.0	168.2	167.1
50°	1319.5	1110.7	450.4	229.1	209.9	202.0	189.6	179.5	172.7	168.2	167.1
52.5°	1496.7	1217.9	423.3	208.8	194.1	190.8	188.5	180.6	173.8	170.4	169.3
55°	1688.6	1350.0	397.3	191.9	181.7	186.2	190.8	182.9	178.3	173.8	171.6
57.5°	1869.2	1461.7	355.6	177.2	172.7	180.6	189.6	184.0	178.3	175.0	173.8
60°	1992.2	1518.2	298.0	163.7	163.7	172.7	186.2	178.3	172.7	173.8	173.8
62.5°	2031.7	1496.7	235.9	151.3	154.6	163.7	176.1	171.6	169.3	175.0	175.0
65°	1973.0	1409.8	188.5	141.1	145.6	152.4	170.4	175.0	181.7	194.1	195.3
67°	1819.5	1269.8	159.2	133.2	137.7	149.0	177.2	193.0	193.0	206.6	206.6
67.5°	1774.4	1222.4	154.6	130.9	136.6	149.0	180.6	197.5	193.0	208.8	208.8
70°	1442.5	961.7	130.9	124.2	132.1	156.9	195.3	198.7	188.5	203.2	202.0
72.5°	1070.1	695.3	119.6	117.4	123.0	147.9	194.1	190.8	176.1	180.6	177.2
75°	661.4	403.0	110.6	108.4	111.7	130.9	179.5	173.8	156.9	153.5	150.1
77.5°	319.4	204.3	94.8	98.2	101.6	114.0	158.0	152.4	137.7	129.8	128.7
80°	138.8	105.0	81.3	86.9	88.0	97.1	130.9	124.2	110.6	98.2	98.2
82.5°	68.9	58.7	64.3	72.2	70.0	77.9	102.7	91.4	81.3	67.7	65.5
85°	31.6	33.9	47.4	54.2	47.4	48.5	70.0	64.3	50.8	38.4	39.5
87.5°	11.3	15.8	27.1	32.7	23.7	22.6	37.2	27.1	15.8	4.5	5.6
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)