

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: P573063

Luminaire Tested: **ARCH-S-PA2-30-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573063
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-PA2-30-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 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: 4778 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

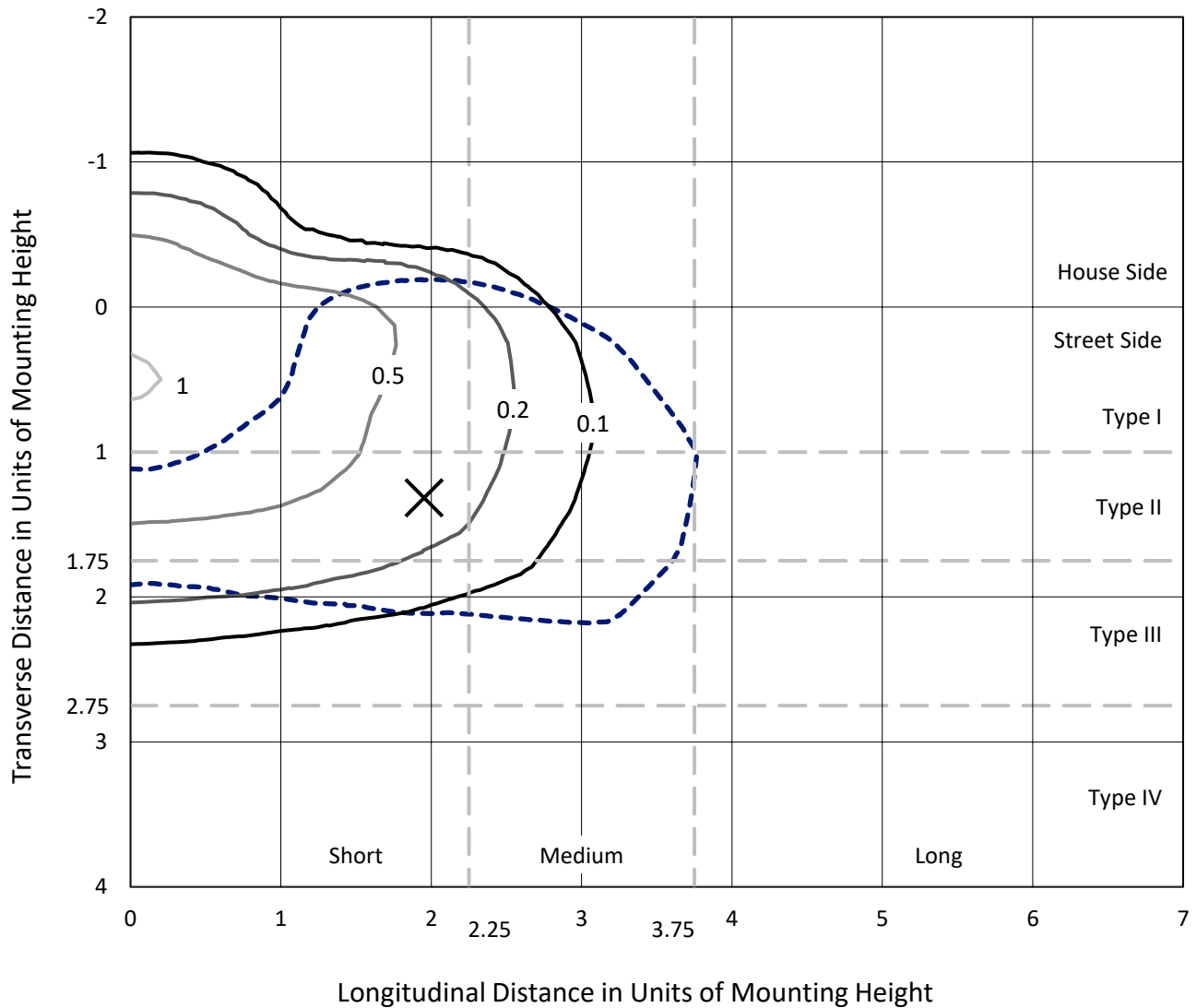
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

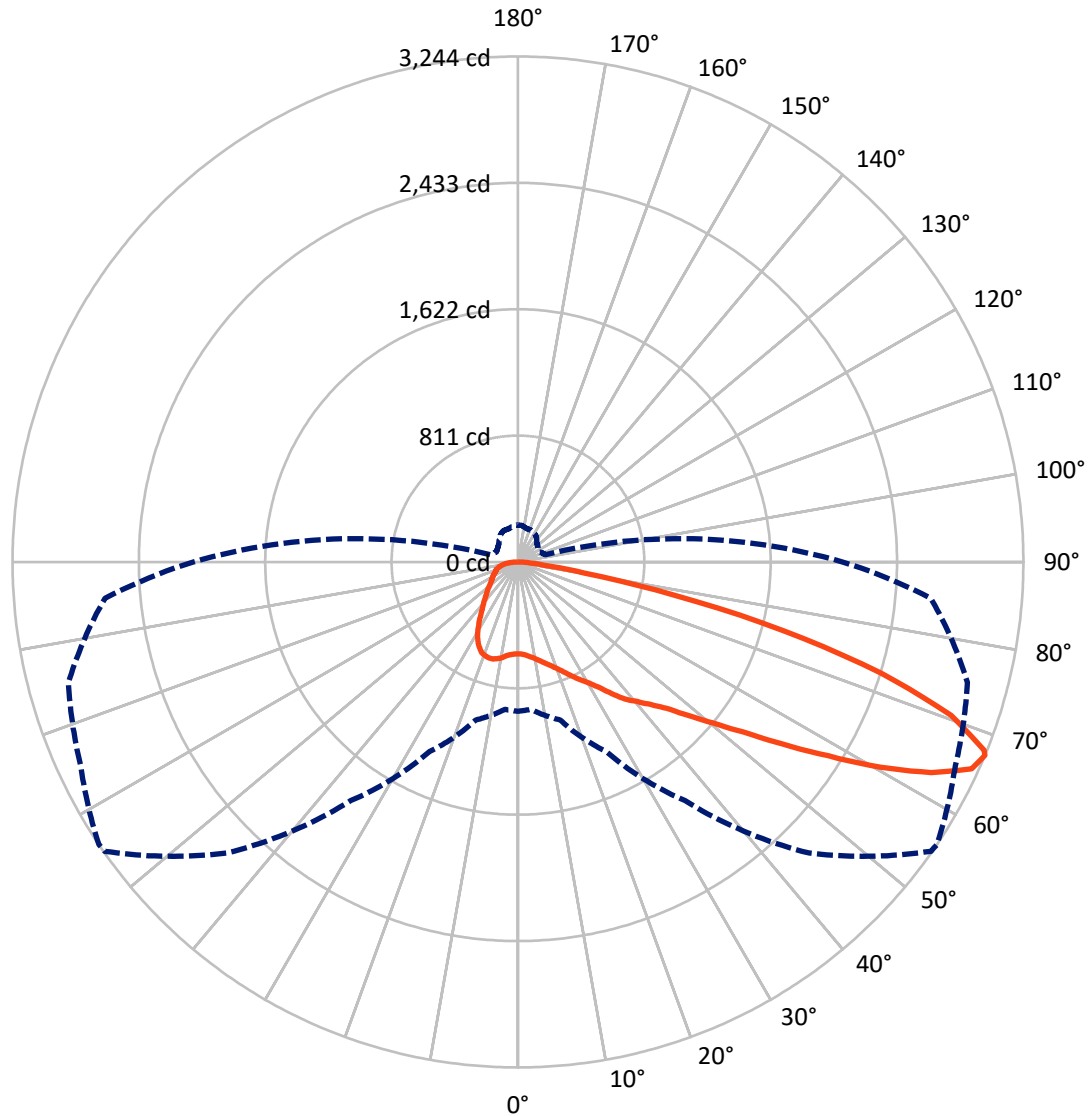
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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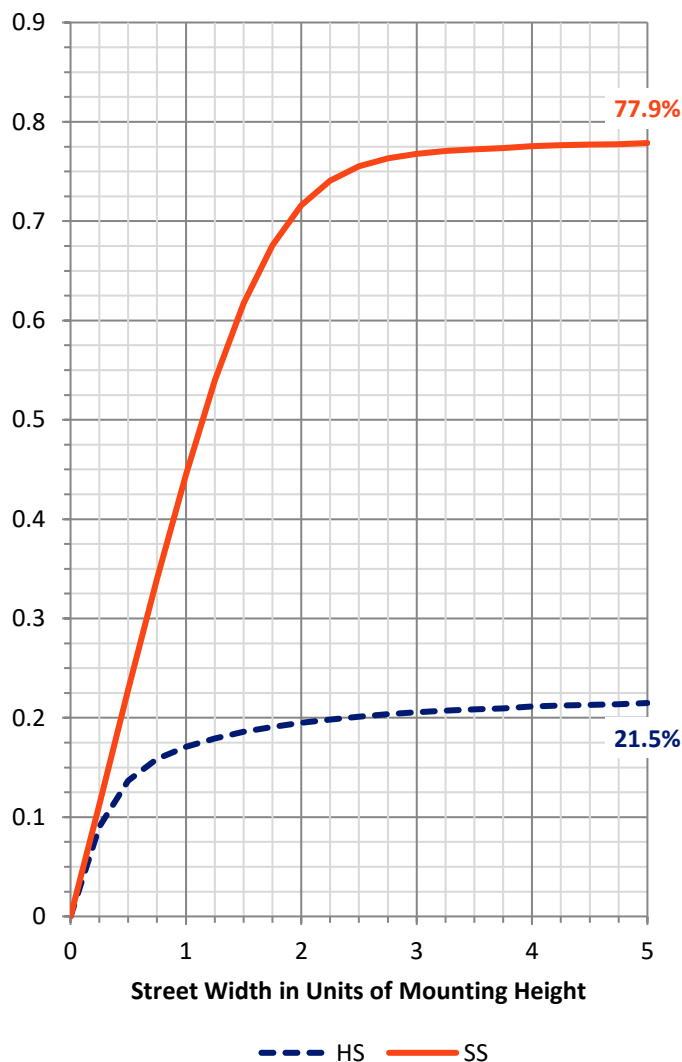
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.3	0.0	1045.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3732.7	0.0	3732.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	4778.0	0.0	4778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	1.2
10°-20°	186.1	3.9
20°-30°	323.9	6.8
30°-40°	474.9	9.9
40°-50°	694.9	14.5
50°-60°	1086.0	22.7
60°-70°	1290.8	27.0
70°-80°	587.9	12.3
80°-90°	75.4	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°	4778.0	100.0
0°-180°	4778.0	100.0

Coefficient of Utilization



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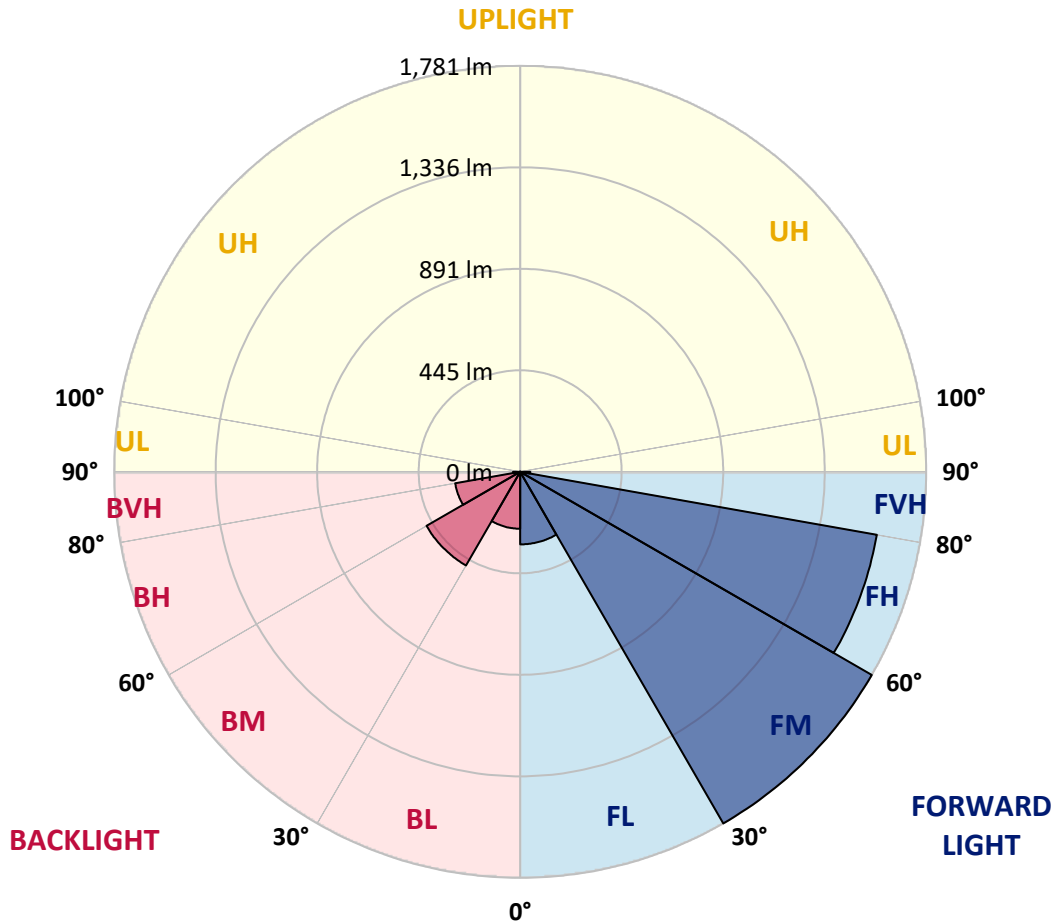
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.2	6.7			
FM (30°-60°)	1781.4	37.3			
FH (60°-80°)	1589.1	33.3			G1/1800
FVH (80°-90°)	44.0	0.9			G1/100
BL (0°-30°)	249.8	5.2	B1/500		
BM (30°-60°)	474.5	9.9	B1/1000		
BH (60°-80°)	289.6	6.1	B1/500		G1/500
BVH (80°-90°)	31.4	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°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	599.0	596.4	595.1	596.4	595.1	592.5	593.8	592.5	591.2	589.9	589.9
5°	606.7	604.1	602.8	604.1	605.4	602.8	602.8	602.8	599.0	597.7	595.1
7.5°	611.9	608.0	608.0	610.6	613.2	614.5	617.1	615.8	611.9	609.3	604.1
10°	628.7	623.5	623.5	623.5	626.1	628.7	631.3	632.6	631.3	630.0	626.1
12.5°	654.6	649.4	649.4	649.4	649.4	648.1	652.0	653.3	655.9	655.9	649.4
15°	689.5	683.0	680.4	675.3	674.0	671.4	676.6	676.6	680.4	681.7	675.3
17.5°	723.1	715.4	712.8	707.6	702.4	696.0	701.1	702.4	710.2	711.5	701.1
20°	758.1	755.5	751.6	743.8	734.8	728.3	733.5	732.2	738.7	741.3	728.3
22.5°	803.3	796.9	794.3	783.9	773.6	767.1	767.1	769.7	776.2	776.2	756.8
25°	857.7	848.6	842.2	830.5	817.6	809.8	811.1	813.7	822.7	816.3	786.5
27.5°	924.9	915.9	906.8	883.6	870.6	855.1	853.8	856.4	870.6	853.8	815.0
30°	988.3	984.5	976.7	958.6	937.9	912.0	900.4	901.7	912.0	888.7	839.6
32.5°	1042.7	1037.5	1033.6	1020.7	1006.4	975.4	959.9	961.2	959.9	931.4	869.3
35°	1107.3	1099.6	1097.0	1085.4	1067.2	1046.5	1040.1	1037.5	1029.7	990.9	908.1
37.5°	1169.4	1161.7	1157.8	1151.3	1137.1	1119.0	1119.0	1117.7	1102.2	1047.8	946.9
40°	1243.2	1234.1	1222.5	1218.6	1207.0	1194.0	1183.7	1177.2	1150.0	1100.9	1022.0
42.5°	1332.4	1327.3	1320.8	1304.0	1285.9	1283.3	1253.5	1250.9	1231.5	1203.1	1128.0
45°	1460.5	1450.2	1441.1	1435.9	1413.9	1390.7	1349.3	1338.9	1338.9	1332.4	1252.2
47.5°	1589.9	1571.8	1584.7	1580.8	1575.6	1549.8	1469.6	1470.9	1468.3	1485.1	1434.6
50°	1676.5	1666.2	1702.4	1719.2	1755.5	1755.5	1640.3	1626.1	1636.4	1685.6	1620.9
52.5°	1743.8	1737.3	1778.7	1844.7	1952.1	1962.4	1843.4	1813.7	1827.9	1897.8	1871.9
55°	1798.1	1791.7	1839.5	1954.7	2126.7	2190.1	2077.6	2064.6	2036.2	2111.2	2119.0
57.5°	1830.5	1816.3	1888.7	2042.6	2269.0	2415.2	2351.8	2347.9	2282.0	2351.8	2386.7
60°	1781.3	1772.3	1871.9	2078.9	2384.2	2627.4	2673.9	2673.9	2556.2	2593.7	2636.4
62.5°	1622.2	1610.6	1715.4	1994.8	2398.4	2800.7	2993.5	2977.9	2820.1	2818.8	2781.3
65°	1319.5	1305.3	1423.0	1717.9	2218.6	2821.4	3209.5	3200.4	3018.0	2966.3	2790.4
67°	958.6	949.5	1050.4	1342.8	1869.3	2641.6	3236.7	3244.4	3097.0	2987.0	2659.7
67.5°	860.3	859.0	943.1	1232.8	1767.1	2575.6	3218.6	3226.3	3095.7	2970.2	2608.0
70°	401.0	419.1	498.0	706.3	1191.4	2028.4	2921.0	2950.8	2930.1	2776.1	2196.6
72.5°	186.3	194.0	229.0	341.5	640.3	1307.9	2367.3	2438.5	2529.0	2381.6	1739.9
75°	115.1	117.7	137.1	177.2	301.4	628.7	1685.6	1763.2	1900.3	1791.7	1112.5
77.5°	90.6	91.8	104.8	126.8	175.9	270.4	924.9	1022.0	1200.5	1059.5	560.1
80°	67.3	69.9	80.2	98.3	124.2	138.4	393.3	429.5	579.5	443.7	232.9
82.5°	49.2	51.7	62.1	71.1	86.7	88.0	160.4	169.5	248.4	179.8	100.9
85°	41.4	41.4	47.9	53.0	58.2	49.2	78.9	77.6	95.7	81.5	40.1
87.5°	19.4	20.7	45.3	33.6	28.5	20.7	23.3	24.6	29.8	32.3	15.5
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°	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9	589.9
2.5°	588.6	588.6	588.6	589.9	591.2	591.2	592.5	592.5	593.8	595.1	597.7
5°	593.8	593.8	592.5	593.8	596.4	597.7	600.2	602.8	605.4	608.0	609.3
7.5°	604.1	602.8	602.8	602.8	605.4	608.0	611.9	614.5	618.4	619.6	622.2
10°	623.5	620.9	620.9	622.2	623.5	619.6	618.4	617.1	620.9	623.5	626.1
12.5°	646.8	644.2	642.9	639.1	633.9	626.1	619.6	614.5	615.8	618.4	622.2
15°	671.4	666.2	663.6	654.6	641.6	624.8	614.5	608.0	608.0	608.0	611.9
17.5°	697.3	692.1	681.7	664.9	640.3	617.1	604.1	592.5	587.3	586.0	588.6
20°	721.8	714.1	697.3	671.4	632.6	601.5	584.7	565.3	557.6	552.4	555.0
22.5°	745.1	734.8	711.5	671.4	619.6	578.3	548.5	522.6	509.7	507.1	508.4
25°	769.7	756.8	725.7	663.6	591.2	543.3	501.9	474.8	457.9	455.4	459.2
27.5°	794.3	774.9	737.4	642.9	558.8	495.5	451.5	425.6	416.5	411.4	412.7
30°	815.0	796.9	749.0	614.5	514.9	439.8	399.7	388.1	381.6	379.0	379.0
32.5°	842.2	825.3	756.8	580.8	463.1	389.4	363.5	354.5	349.3	342.8	344.1
35°	875.8	860.3	752.9	538.2	414.0	355.7	335.1	322.1	310.5	301.4	300.1
37.5°	921.1	909.4	733.5	486.4	368.7	331.2	310.5	293.7	276.8	262.6	260.0
40°	996.1	968.9	705.0	429.5	337.6	311.8	287.2	266.5	245.8	230.3	226.4
42.5°	1091.8	1034.9	666.2	371.3	311.8	291.1	266.5	239.3	219.9	205.7	205.7
45°	1203.1	1106.1	619.6	327.3	284.6	270.4	240.6	217.3	205.7	196.6	195.3
47.5°	1335.0	1177.2	560.1	292.4	262.6	252.3	222.5	208.3	200.5	192.8	191.5
50°	1512.3	1272.9	516.2	262.6	240.6	231.6	217.3	205.7	197.9	192.8	191.5
52.5°	1715.4	1395.8	485.1	239.3	222.5	218.6	216.0	207.0	199.2	195.3	194.0
55°	1935.3	1547.2	455.4	219.9	208.3	213.4	218.6	209.6	204.4	199.2	196.6
57.5°	2142.3	1675.3	407.5	203.1	197.9	207.0	217.3	210.9	204.4	200.5	199.2
60°	2283.3	1739.9	341.5	187.6	187.6	197.9	213.4	204.4	197.9	199.2	199.2
62.5°	2328.5	1715.4	270.4	173.3	177.2	187.6	201.8	196.6	194.0	200.5	200.5
65°	2261.3	1615.7	216.0	161.7	166.9	174.6	195.3	200.5	208.3	222.5	223.8
67°	2085.3	1455.3	182.4	152.6	157.8	170.8	203.1	221.2	221.2	236.7	236.7
67.5°	2033.6	1401.0	177.2	150.1	156.5	170.8	207.0	226.4	221.2	239.3	239.3
70°	1653.3	1102.2	150.1	142.3	151.4	179.8	223.8	227.7	216.0	232.9	231.6
72.5°	1226.4	796.9	137.1	134.5	141.0	169.5	222.5	218.6	201.8	207.0	203.1
75°	758.1	461.8	126.8	124.2	128.1	150.1	205.7	199.2	179.8	175.9	172.1
77.5°	366.1	234.1	108.7	112.5	116.4	130.7	181.1	174.6	157.8	148.8	147.5
80°	159.1	120.3	93.1	99.6	100.9	111.3	150.1	142.3	126.8	112.5	112.5
82.5°	78.9	67.3	73.7	82.8	80.2	89.3	117.7	104.8	93.1	77.6	75.0
85°	36.2	38.8	54.3	62.1	54.3	55.6	80.2	73.7	58.2	44.0	45.3
87.5°	12.9	18.1	31.0	37.5	27.2	25.9	42.7	31.0	18.1	5.2	6.5
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)