

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: P397713

Luminaire Tested: **ARCH-S-PA1-30-750-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-750-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 31
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: 28.75 FT

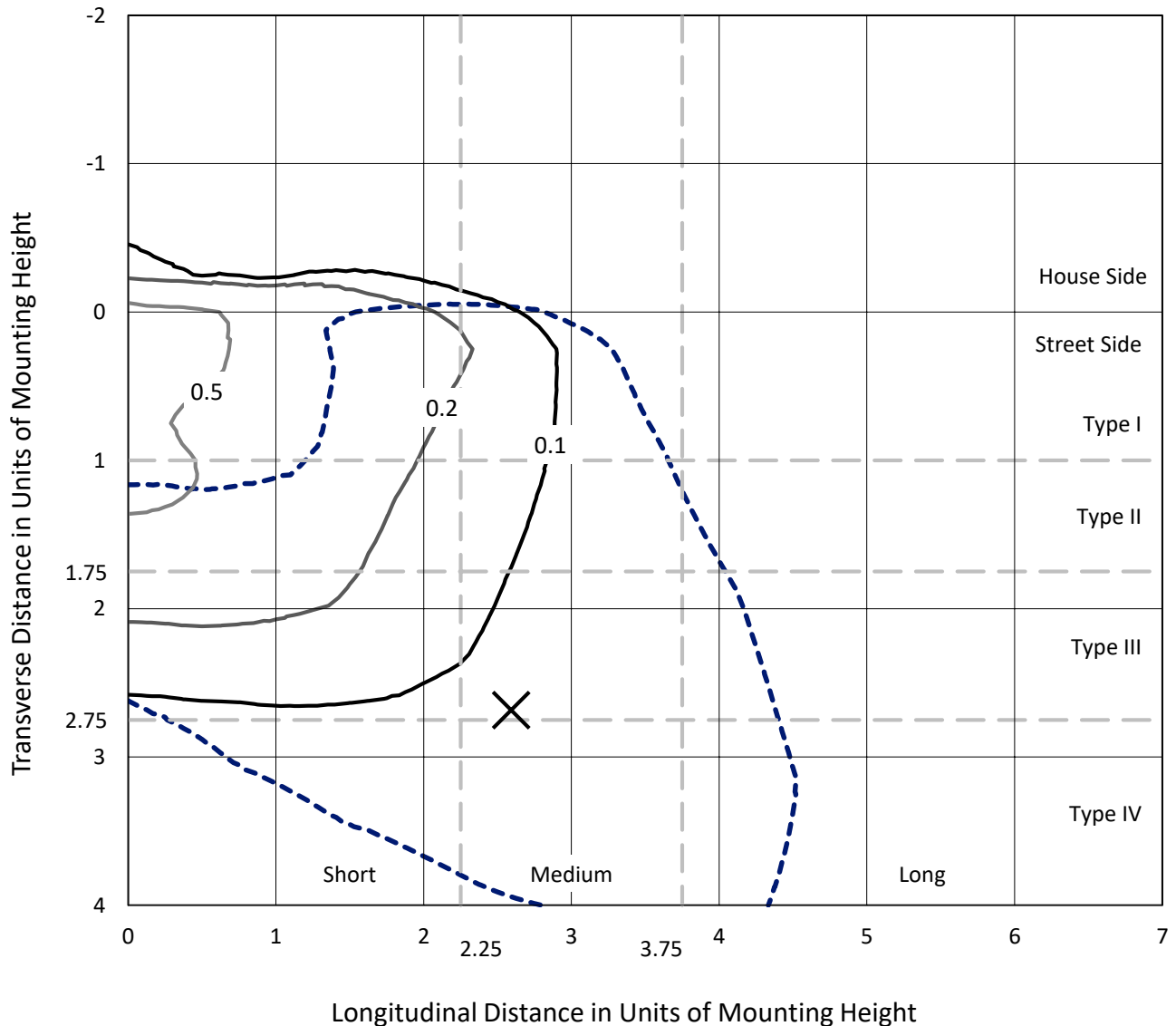


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Iso-Footcandle Lines of Horizontal Illumination

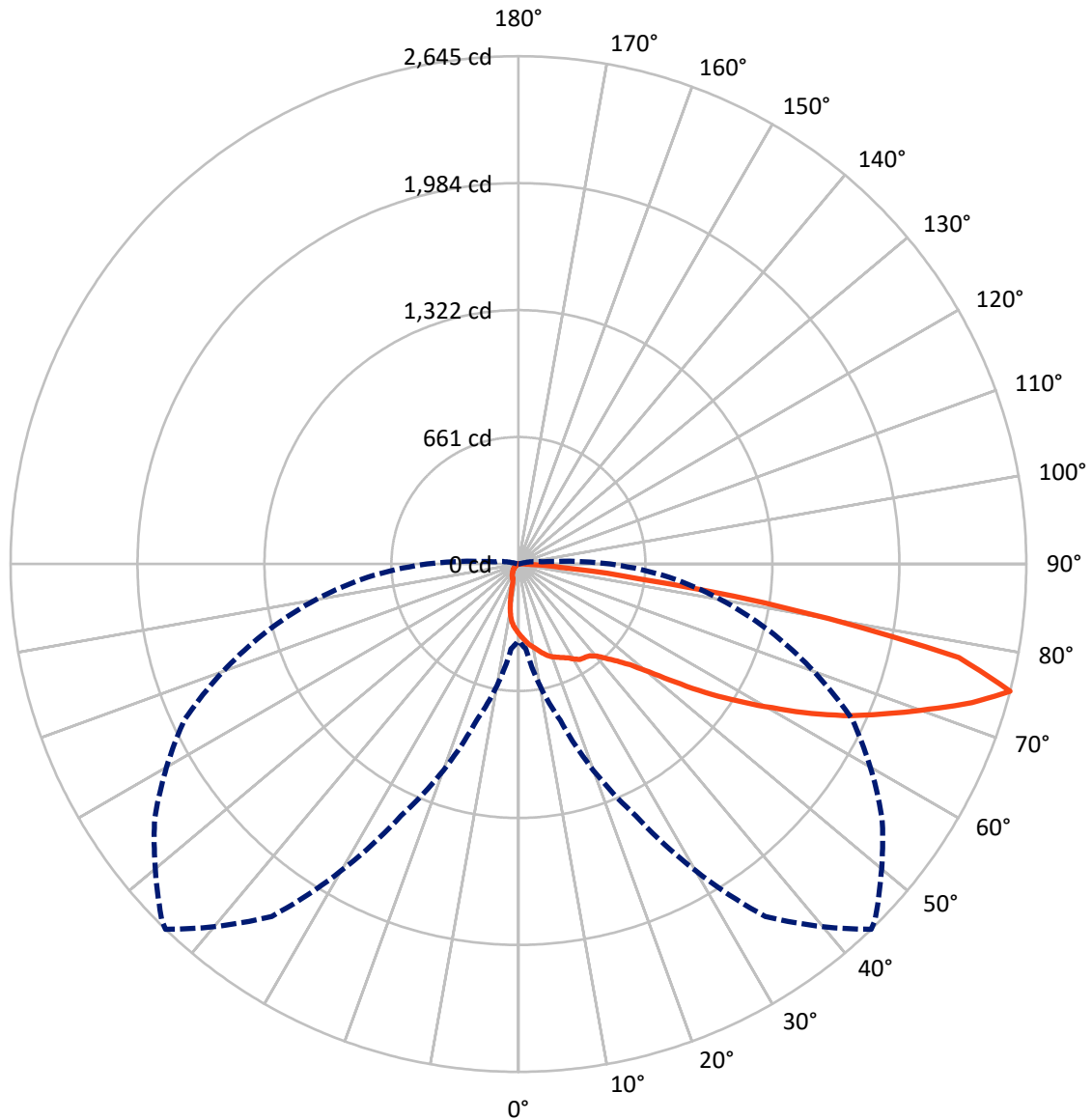
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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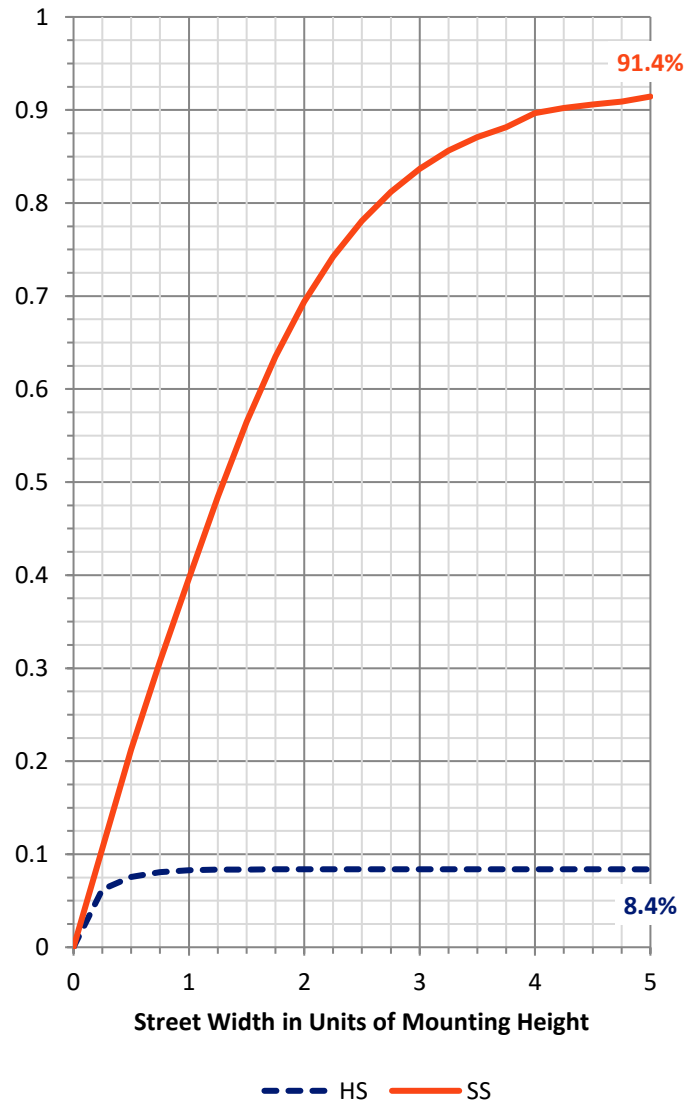
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.9	0.0	280.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3050.1	0.0	3050.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	3331.0	0.0	3331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	1.0
10°-20°	95.8	2.9
20°-30°	158.1	4.7
30°-40°	229.5	6.9
40°-50°	373.1	11.2
50°-60°	657.6	19.7
60°-70°	945.2	28.4
70°-80°	756.9	22.7
80°-90°	80.6	2.4
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°	3331.0	100.0
0°-180°	3331.0	100.0



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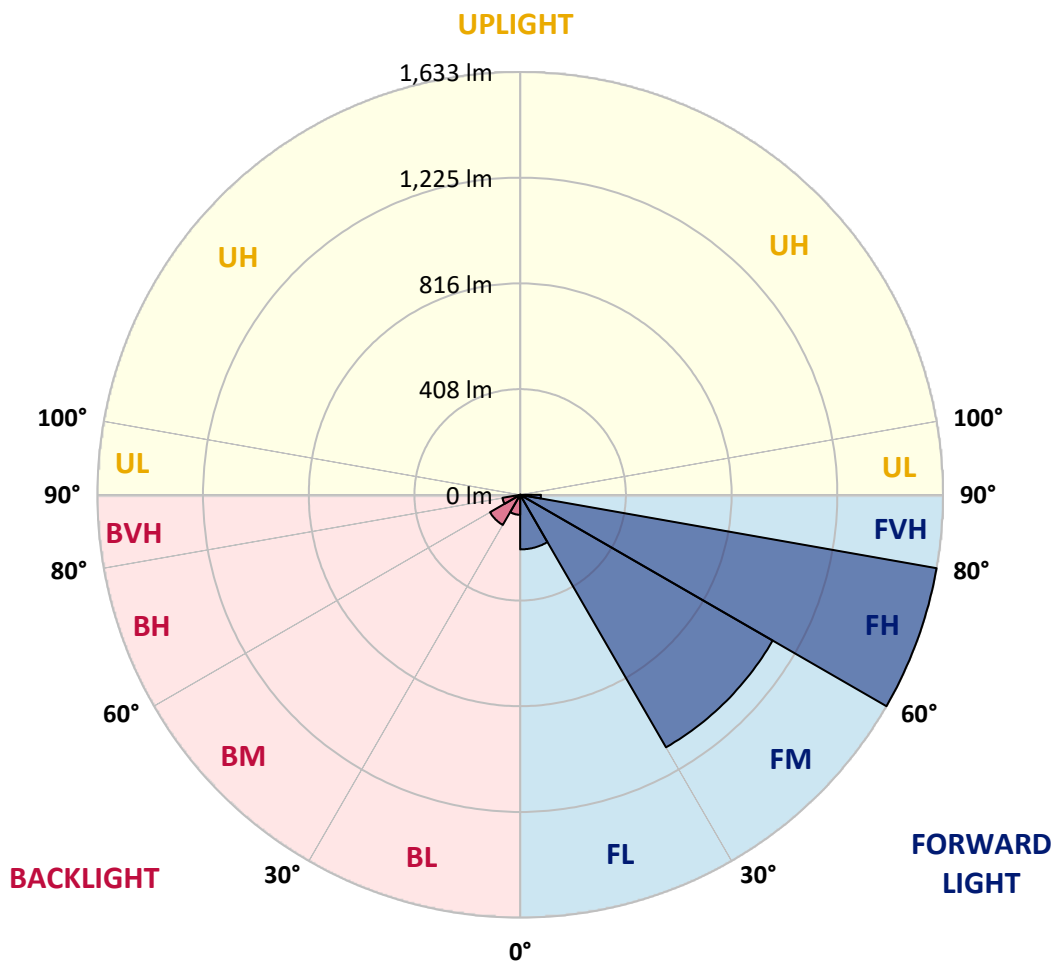
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	210.9	6.3			
FM (30°-60°)	1125.9	33.8			
FH (60°-80°)	1632.8	49.0			G1/1800
FVH (80°-90°)	80.4	2.4			G1/100
BL (0°-30°)	77.2	2.3	B0/110		
BM (30°-60°)	134.3	4.0	B0/220		
BH (60°-80°)	69.2	2.1	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6
2.5°	395.1	394.5	392.7	389.6	386.5	383.5	382.8	377.9	372.4	368.1	364.4
5°	430.2	429.5	426.5	419.7	413.0	405.0	404.4	392.7	382.2	370.6	360.7
7.5°	466.4	465.2	459.7	449.2	437.5	425.2	424.0	406.8	391.4	376.1	362.0
10°	494.7	493.5	485.5	473.2	457.2	441.8	440.0	422.2	406.8	387.1	368.1
12.5°	522.3	519.9	509.4	495.9	476.3	461.5	459.7	441.2	422.8	402.5	379.2
15°	548.2	545.1	535.2	518.0	497.1	483.0	481.8	462.1	443.1	419.7	393.9
17.5°	566.0	564.7	553.1	534.0	513.7	502.1	500.8	480.6	461.5	436.9	409.3
20°	575.2	575.2	564.1	543.2	524.8	516.8	515.0	495.9	477.5	454.1	425.2
22.5°	577.0	578.9	570.3	547.5	534.0	527.3	526.0	509.4	491.6	470.1	443.1
25°	580.7	580.7	576.4	551.8	542.0	540.2	539.5	524.8	508.8	487.3	460.9
27.5°	585.0	585.0	582.0	558.0	554.3	553.7	553.1	546.3	533.4	508.2	481.8
30°	596.1	596.7	594.2	570.3	567.8	574.6	575.8	572.1	556.1	524.8	503.3
32.5°	623.7	618.2	611.4	578.9	583.2	591.8	592.4	585.0	567.8	542.6	529.1
35°	693.2	660.6	629.9	586.3	588.1	596.7	597.9	597.3	586.9	565.4	558.6
37.5°	757.7	711.6	668.0	603.5	597.3	606.5	609.0	619.4	611.4	596.7	598.5
40°	795.2	777.4	746.6	650.8	615.7	629.9	632.3	648.3	645.2	639.1	650.8
42.5°	910.7	911.9	878.8	721.4	649.5	672.3	675.4	688.3	692.6	695.6	723.9
45°	1044.7	1049.0	1041.0	848.7	713.5	720.8	725.1	742.3	758.3	778.0	829.6
47.5°	1205.7	1202.0	1172.5	1004.1	824.7	783.5	786.6	819.8	847.4	890.4	964.2
50°	1348.3	1357.5	1301.6	1149.2	981.4	882.5	879.4	911.9	961.7	1021.9	1114.7
52.5°	1492.1	1478.5	1402.9	1292.9	1167.0	1017.0	1007.8	1025.6	1095.7	1167.0	1262.2
55°	1530.2	1531.4	1505.6	1450.3	1321.8	1180.5	1165.1	1163.9	1251.2	1299.7	1417.1
57.5°	1605.1	1608.2	1614.3	1625.4	1564.6	1344.0	1328.0	1310.8	1395.6	1423.8	1572.6
60°	1681.3	1685.0	1722.5	1782.1	1741.5	1520.3	1503.1	1462.6	1509.9	1548.0	1736.0
62.5°	1671.5	1697.3	1806.1	1924.7	1919.8	1713.9	1692.4	1594.7	1624.8	1658.0	1886.0
65°	1509.3	1536.9	1781.5	1964.0	2098.6	1905.0	1870.0	1731.1	1732.9	1772.9	2030.4
67.5°	1364.2	1394.3	1627.9	1947.4	2216.6	2076.5	2040.2	1868.1	1839.3	1905.6	2107.8
70°	1280.7	1310.8	1505.6	1895.8	2249.8	2266.3	2235.0	2024.8	1965.8	2026.7	2021.2
72.5°	1002.3	1049.6	1349.5	1797.5	2285.4	2469.8	2445.2	2223.3	2073.4	1900.1	1538.8
75°	399.4	443.1	842.5	1446.6	2240.5	2644.9	2625.8	2312.4	1919.1	1356.9	787.8
77.5°	120.4	129.0	234.1	715.3	1642.6	2345.0	2338.9	1944.3	1358.1	629.9	215.1
80°	39.9	44.2	71.9	197.3	749.7	1465.0	1492.7	1238.9	617.0	144.4	43.6
82.5°	16.6	18.4	36.3	79.3	265.5	631.1	621.9	554.9	215.1	89.7	16.0
85°	4.3	5.5	16.6	45.5	97.1	217.5	228.6	186.2	121.7	74.4	4.9
87.5°	0.0	0.0	8.0	18.4	43.6	65.8	68.8	56.5	68.8	55.9	2.5
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°	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6	362.6
2.5°	361.3	358.3	352.7	349.0	344.1	342.9	340.4	337.4	336.8	333.7	334.3
5°	355.2	350.3	340.4	333.7	325.7	323.2	318.9	315.9	313.4	309.1	309.7
7.5°	354.0	346.6	333.1	320.2	307.3	298.0	285.1	274.7	266.1	256.9	258.7
10°	358.3	349.0	330.0	312.2	288.8	259.3	225.5	203.4	192.3	181.3	182.5
12.5°	366.9	355.8	331.2	304.2	256.9	206.5	159.8	129.7	121.7	116.8	117.4
15°	379.8	366.3	334.9	288.8	213.9	149.3	106.3	93.4	96.5	98.3	98.3
17.5°	393.3	377.9	338.0	261.2	165.3	104.5	86.6	85.4	89.7	94.0	94.0
20°	409.9	390.2	338.6	226.1	119.2	84.8	81.7	81.7	84.8	89.7	89.7
22.5°	425.9	403.7	333.1	186.2	90.9	78.7	78.7	78.7	80.5	85.4	86.0
25°	444.9	420.3	321.4	143.8	78.0	75.0	75.0	75.6	76.8	81.1	81.7
27.5°	465.2	437.5	301.7	105.1	71.3	70.7	71.3	71.9	72.5	76.8	78.0
30°	488.5	456.6	276.5	78.7	65.1	65.1	67.0	68.2	68.2	71.9	73.1
32.5°	515.6	481.8	246.4	65.1	59.0	58.4	61.5	63.3	63.3	66.4	67.6
35°	549.4	507.6	210.2	57.8	54.1	52.8	54.1	57.2	58.4	60.8	61.5
37.5°	594.2	538.3	171.5	53.5	50.4	47.9	47.9	48.5	51.0	53.5	54.1
40°	651.4	572.1	133.4	50.4	46.7	44.2	42.4	41.8	41.2	43.0	44.2
42.5°	723.3	610.2	99.6	47.3	43.6	39.9	37.5	35.0	32.0	31.3	32.0
45°	815.5	656.9	73.7	44.9	41.8	36.3	32.0	27.7	22.1	20.3	20.9
47.5°	924.2	705.5	57.8	42.4	40.6	32.0	26.4	19.1	13.5	12.3	12.9
50°	1039.8	752.2	49.2	39.3	38.1	27.7	19.1	11.7	8.0	8.0	8.6
52.5°	1138.1	778.6	44.9	36.9	34.4	22.7	12.3	6.8	4.9	4.9	5.5
55°	1233.3	792.7	41.8	34.4	29.5	16.0	6.8	4.3	3.1	3.1	3.1
57.5°	1331.7	798.9	38.1	31.3	23.4	9.8	3.7	2.5	1.8	1.8	1.8
60°	1418.9	787.2	32.6	25.8	15.4	4.9	1.8	1.8	1.2	0.6	0.6
62.5°	1492.1	765.1	22.7	18.4	9.2	2.5	1.2	0.6	0.0	0.0	0.0
65°	1536.9	729.4	14.7	12.3	5.5	1.8	0.6	0.0	0.0	0.0	0.0
67.5°	1524.0	662.5	9.2	8.0	2.5	1.2	0.6	0.0	0.0	0.0	0.0
70°	1375.3	543.2	6.8	4.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	991.2	367.5	4.9	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	476.9	130.9	3.1	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	116.8	28.9	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.8	5.5	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)