

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: P397704

Luminaire Tested: **ARCH-S-PA1-30-740-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397704
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-PA1-30-740-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 3330 lumens
Efficiency: N/A
Efficacy: 107.4 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

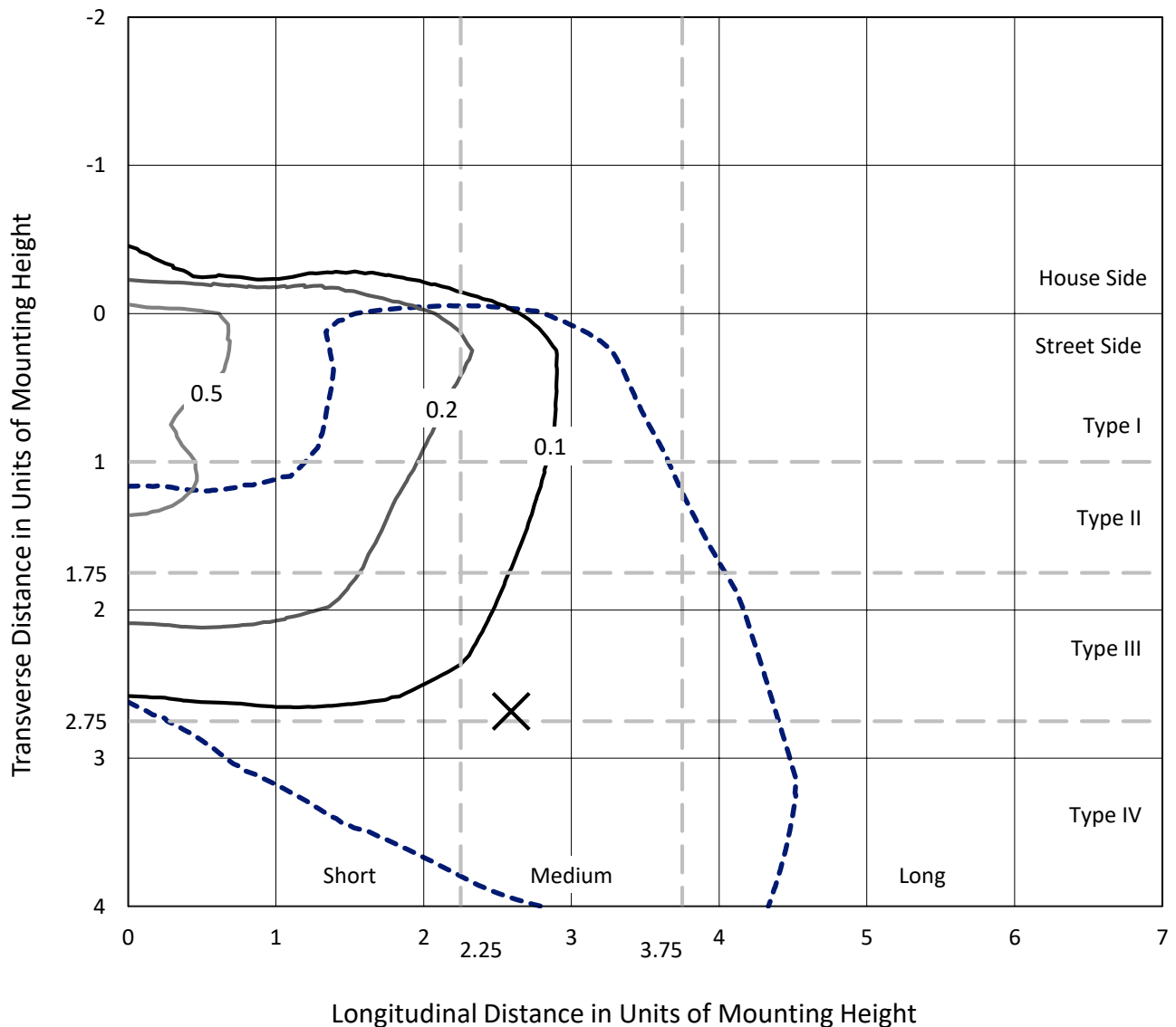


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

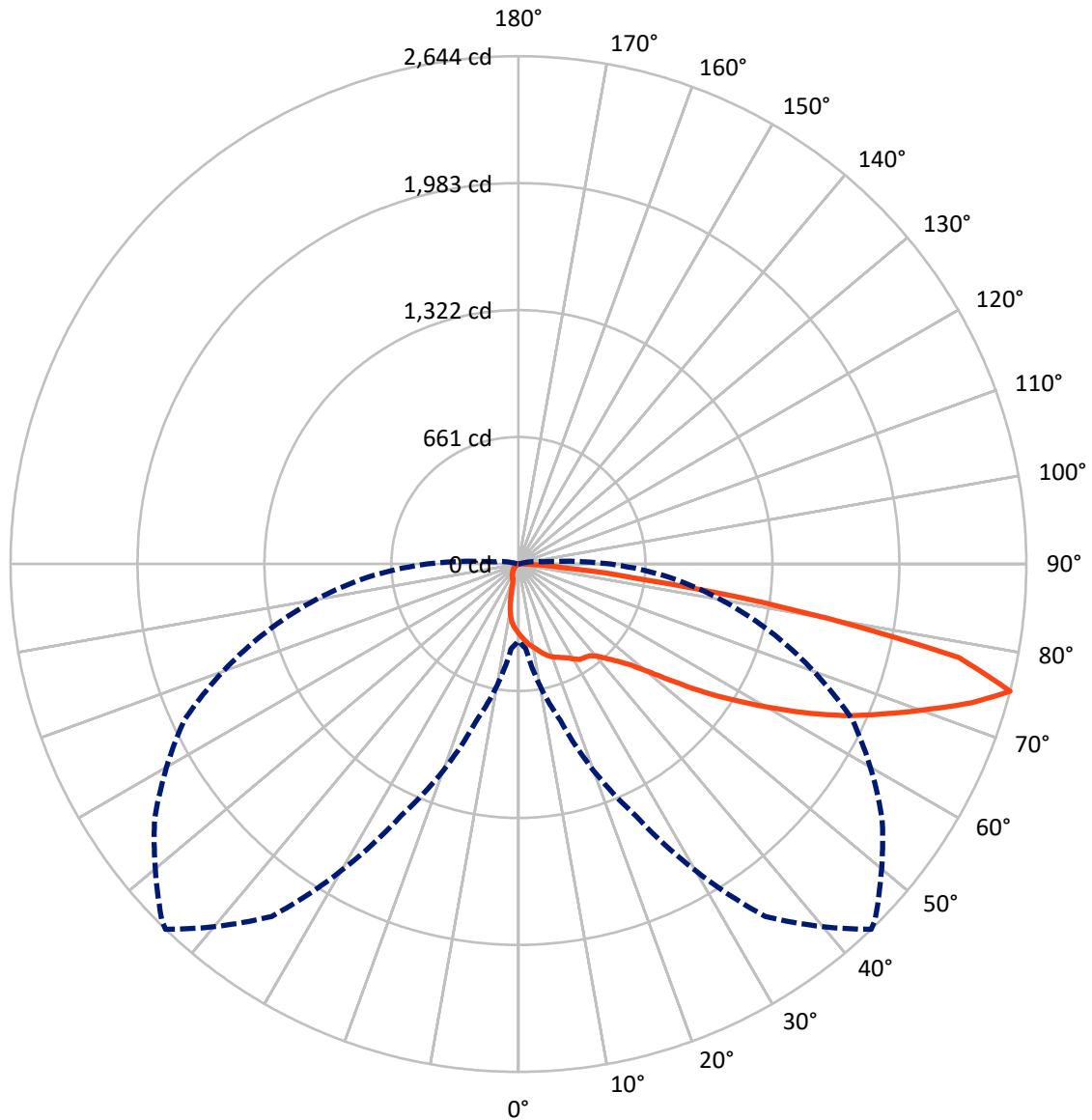


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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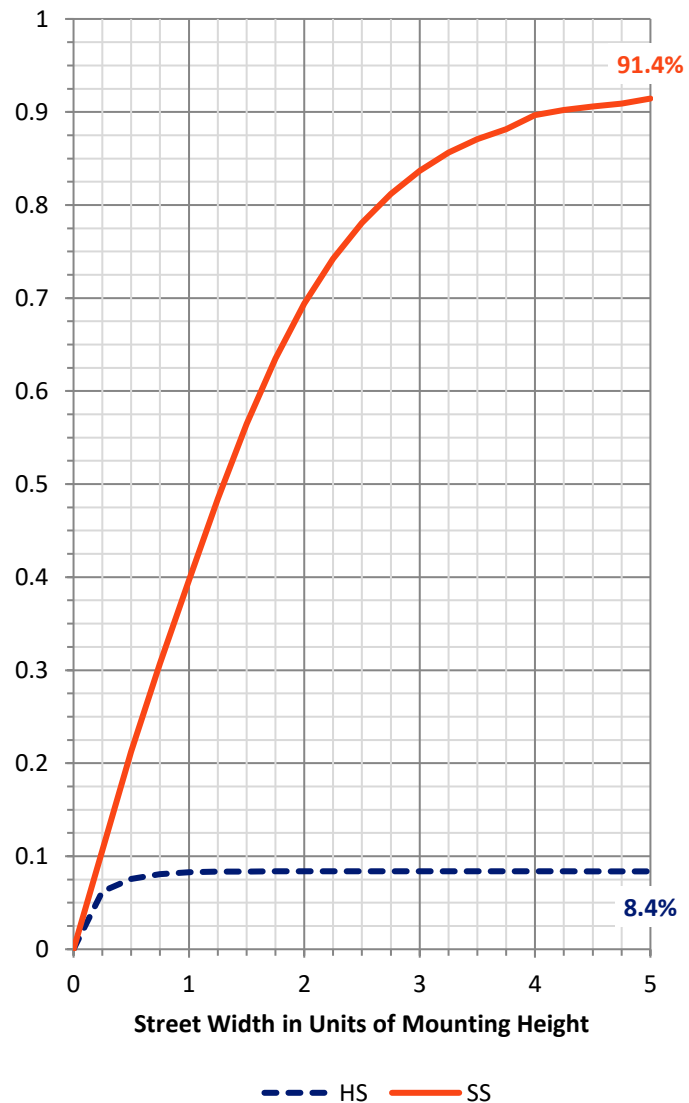
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.8	0.0	280.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3049.2	0.0	3049.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	3330.0	0.0	3330.0
	% 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°	229.4	6.9
40°-50°	372.9	11.2
50°-60°	657.4	19.7
60°-70°	944.9	28.4
70°-80°	756.6	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°	3330.0	100.0
0°-180°	3330.0	100.0



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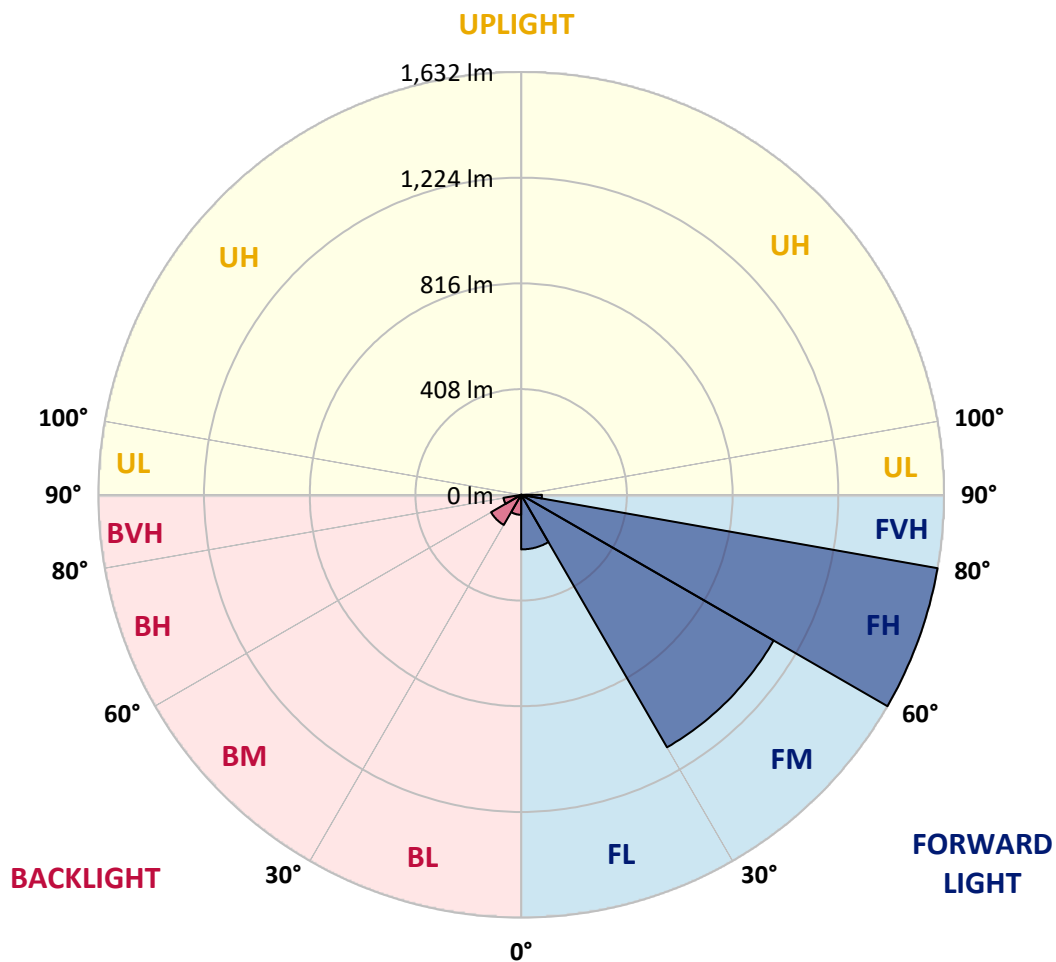
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.9	6.3			
FM	(30°-60°)	1125.6	33.8			
FH	(60°-80°)	1632.3	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°)	134.2	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°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5
2.5°	395.0	394.4	392.6	389.5	386.4	383.3	382.7	377.8	372.3	368.0	364.3
5°	430.0	429.4	426.3	419.6	412.8	404.8	404.2	392.6	382.1	370.4	360.6
7.5°	466.3	465.1	459.5	449.1	437.4	425.1	423.9	406.7	391.3	376.0	361.8
10°	494.5	493.3	485.3	473.0	457.1	441.7	439.9	422.0	406.7	387.0	368.0
12.5°	522.2	519.7	509.3	495.8	476.1	461.4	459.5	441.1	422.7	402.4	379.0
15°	548.0	544.9	535.1	517.9	497.0	482.9	481.6	462.0	442.9	419.6	393.8
17.5°	565.8	564.6	552.9	533.9	513.6	501.9	500.7	480.4	461.4	436.8	409.1
20°	575.0	575.0	564.0	543.1	524.6	516.7	514.8	495.8	477.3	454.0	425.1
22.5°	576.9	578.7	570.1	547.4	533.9	527.1	525.9	509.3	491.5	470.0	442.9
25°	580.5	580.5	576.2	551.7	541.8	540.0	539.4	524.6	508.7	487.2	460.8
27.5°	584.8	584.8	581.8	557.8	554.1	553.5	552.9	546.1	533.2	508.1	481.6
30°	595.9	596.5	594.1	570.1	567.6	574.4	575.6	571.9	556.0	524.6	503.1
32.5°	623.6	618.0	611.3	578.7	583.0	591.6	592.2	584.8	567.6	542.5	528.9
35°	693.0	660.4	629.7	586.1	587.9	596.5	597.7	597.1	586.7	565.2	558.4
37.5°	757.5	711.4	667.8	603.3	597.1	606.3	608.8	619.3	611.3	596.5	598.4
40°	794.9	777.1	746.4	650.6	615.6	629.7	632.2	648.1	645.1	638.9	650.6
42.5°	910.4	911.7	878.5	721.2	649.4	672.1	675.2	688.1	692.4	695.4	723.7
45°	1044.4	1048.7	1040.7	848.4	713.2	720.6	724.9	742.1	758.1	777.7	829.4
47.5°	1205.3	1201.6	1172.2	1003.8	824.4	783.3	786.3	819.5	847.2	890.2	963.9
50°	1347.9	1357.1	1301.2	1148.8	981.1	882.2	879.1	911.7	961.4	1021.6	1114.4
52.5°	1491.6	1478.1	1402.5	1292.6	1166.6	1016.7	1007.5	1025.3	1095.4	1166.6	1261.8
55°	1529.7	1530.9	1505.1	1449.8	1321.4	1180.1	1164.8	1163.6	1250.8	1299.3	1416.7
57.5°	1604.6	1607.7	1613.9	1624.9	1564.1	1343.6	1327.6	1310.4	1395.2	1423.4	1572.1
60°	1680.8	1684.5	1722.0	1781.6	1741.0	1519.9	1502.7	1462.1	1509.4	1547.5	1735.5
62.5°	1671.0	1696.8	1805.5	1924.1	1919.2	1713.4	1691.9	1594.2	1624.3	1657.5	1885.4
65°	1508.8	1536.5	1781.0	1963.4	2098.0	1904.4	1869.4	1730.6	1732.4	1772.4	2029.8
67.5°	1363.8	1393.9	1627.4	1946.8	2215.9	2075.8	2039.6	1867.6	1838.7	1905.1	2107.2
70°	1280.3	1310.4	1505.1	1895.2	2249.1	2265.7	2234.3	2024.2	1965.3	2026.1	2020.5
72.5°	1002.0	1049.3	1349.1	1796.9	2284.7	2469.0	2444.4	2222.7	2072.8	1899.5	1538.3
75°	399.3	442.9	842.3	1446.1	2239.9	2644.1	2625.1	2311.7	1918.6	1356.5	787.6
77.5°	120.4	129.0	234.1	715.1	1642.1	2344.3	2338.2	1943.8	1357.7	629.7	215.0
80°	39.9	44.2	71.9	197.2	749.5	1464.6	1492.2	1238.5	616.8	144.4	43.6
82.5°	16.6	18.4	36.2	79.2	265.4	630.9	621.7	554.7	215.0	89.7	16.0
85°	4.3	5.5	16.6	45.5	97.1	217.5	228.5	186.1	121.6	74.3	4.9
87.5°	0.0	0.0	8.0	18.4	43.6	65.7	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°	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5	362.5
2.5°	361.2	358.2	352.6	348.9	344.0	342.8	340.3	337.3	336.7	333.6	334.2
5°	355.1	350.2	340.3	333.6	325.6	323.1	318.8	315.8	313.3	309.0	309.6
7.5°	353.9	346.5	333.0	320.1	307.2	298.0	285.1	274.6	266.0	256.8	258.6
10°	358.2	348.9	329.9	312.1	288.7	259.2	225.5	203.3	192.3	181.2	182.5
12.5°	366.8	355.7	331.1	304.1	256.8	206.4	159.7	129.6	121.6	116.7	117.3
15°	379.7	366.1	334.8	288.7	213.8	149.3	106.3	93.4	96.5	98.3	98.3
17.5°	393.2	377.8	337.9	261.1	165.3	104.4	86.6	85.4	89.7	94.0	94.0
20°	409.8	390.1	338.5	226.1	119.2	84.8	81.7	81.7	84.8	89.7	89.7
22.5°	425.7	403.6	333.0	186.1	90.9	78.6	78.6	78.6	80.5	85.4	86.0
25°	444.8	420.2	321.3	143.8	78.0	74.9	74.9	75.6	76.8	81.1	81.7
27.5°	465.1	437.4	301.6	105.1	71.3	70.6	71.3	71.9	72.5	76.8	78.0
30°	488.4	456.5	276.5	78.6	65.1	65.1	67.0	68.2	68.2	71.9	73.1
32.5°	515.4	481.6	246.3	65.1	59.0	58.4	61.4	63.3	63.3	66.3	67.6
35°	549.2	507.4	210.1	57.7	54.1	52.8	54.1	57.1	58.4	60.8	61.4
37.5°	594.1	538.2	171.4	53.4	50.4	47.9	47.9	48.5	51.0	53.4	54.1
40°	651.2	571.9	133.3	50.4	46.7	44.2	42.4	41.8	41.2	43.0	44.2
42.5°	723.1	610.0	99.5	47.3	43.6	39.9	37.5	35.0	31.9	31.3	31.9
45°	815.2	656.7	73.7	44.8	41.8	36.2	31.9	27.6	22.1	20.3	20.9
47.5°	924.0	705.3	57.7	42.4	40.5	31.9	26.4	19.0	13.5	12.3	12.9
50°	1039.5	751.9	49.1	39.3	38.1	27.6	19.0	11.7	8.0	8.0	8.6
52.5°	1137.7	778.4	44.8	36.9	34.4	22.7	12.3	6.8	4.9	4.9	5.5
55°	1233.0	792.5	41.8	34.4	29.5	16.0	6.8	4.3	3.1	3.1	3.1
57.5°	1331.3	798.6	38.1	31.3	23.3	9.8	3.7	2.5	1.8	1.8	1.8
60°	1418.5	787.0	32.6	25.8	15.4	4.9	1.8	1.8	1.2	0.6	0.6
62.5°	1491.6	764.8	22.7	18.4	9.2	2.5	1.2	0.6	0.0	0.0	0.0
65°	1536.5	729.2	14.7	12.3	5.5	1.8	0.6	0.0	0.0	0.0	0.0
67.5°	1523.6	662.3	9.2	8.0	2.5	1.2	0.6	0.0	0.0	0.0	0.0
70°	1374.9	543.1	6.8	4.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	990.9	367.4	4.9	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	476.7	130.9	3.1	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	116.7	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)