

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: P397695

Luminaire Tested: **ARCH-S-PA1-30-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397695
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-PA1-30-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 3033 lumens
Efficiency: N/A
Efficacy: 97.8 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

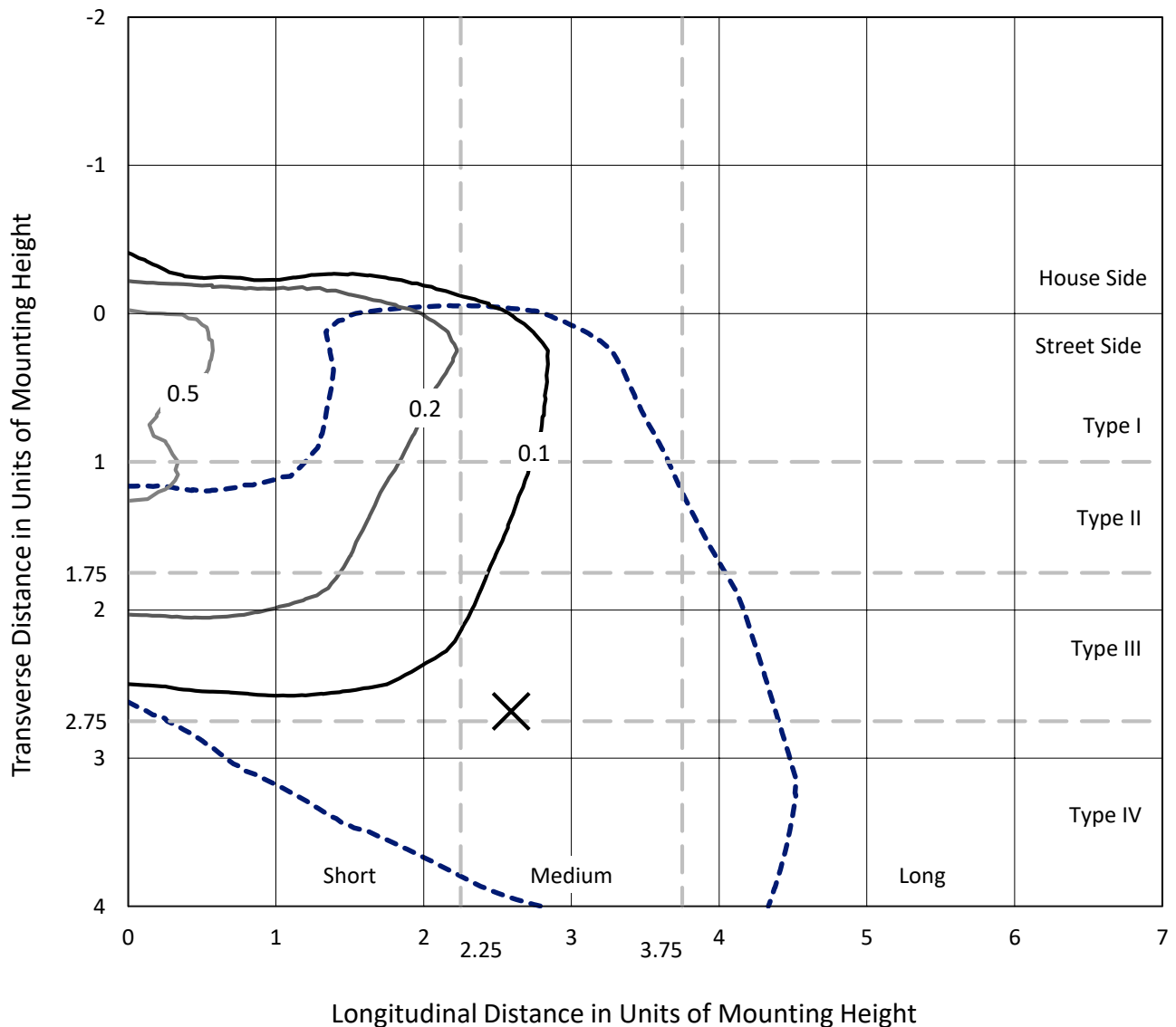
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

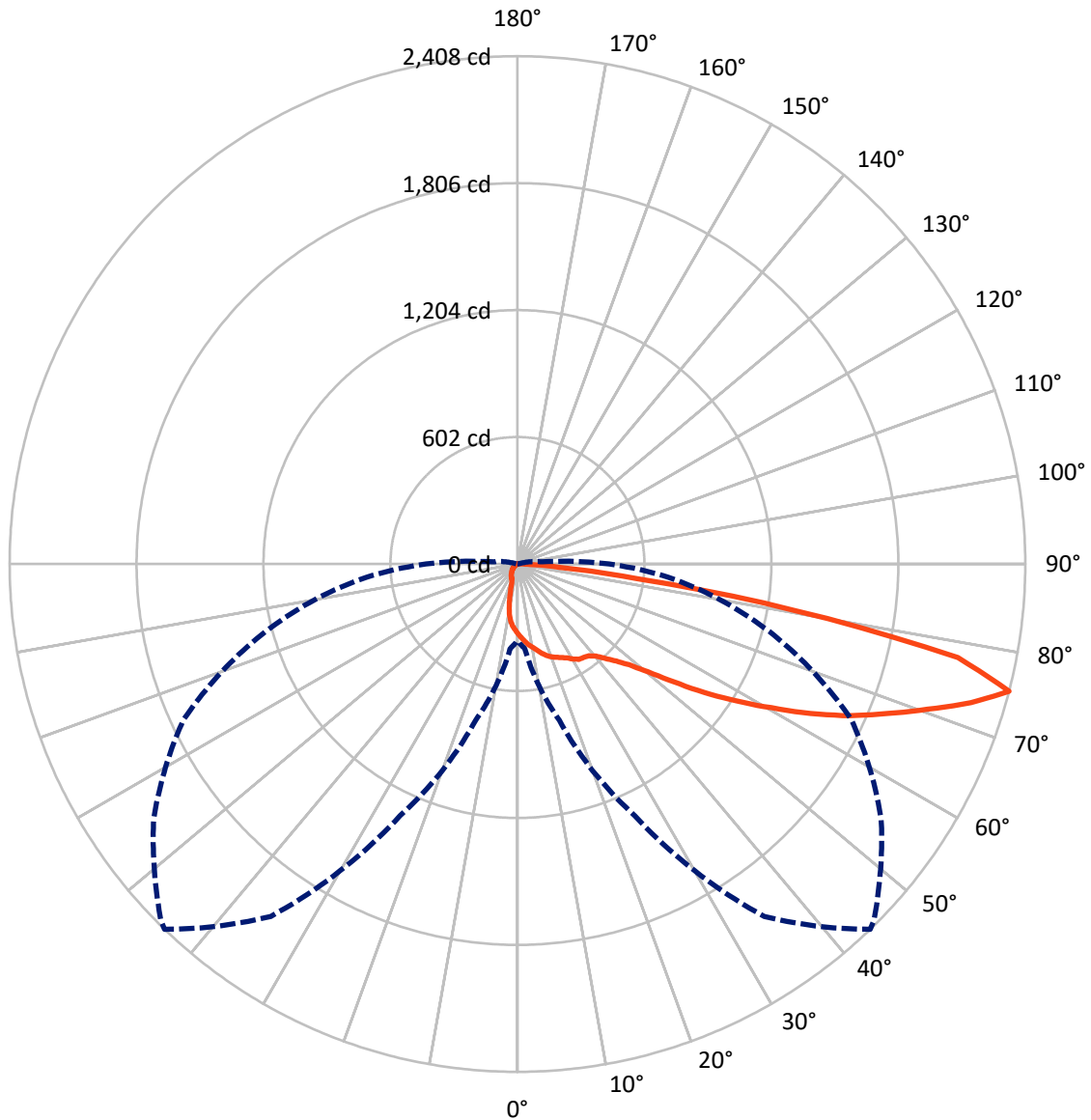
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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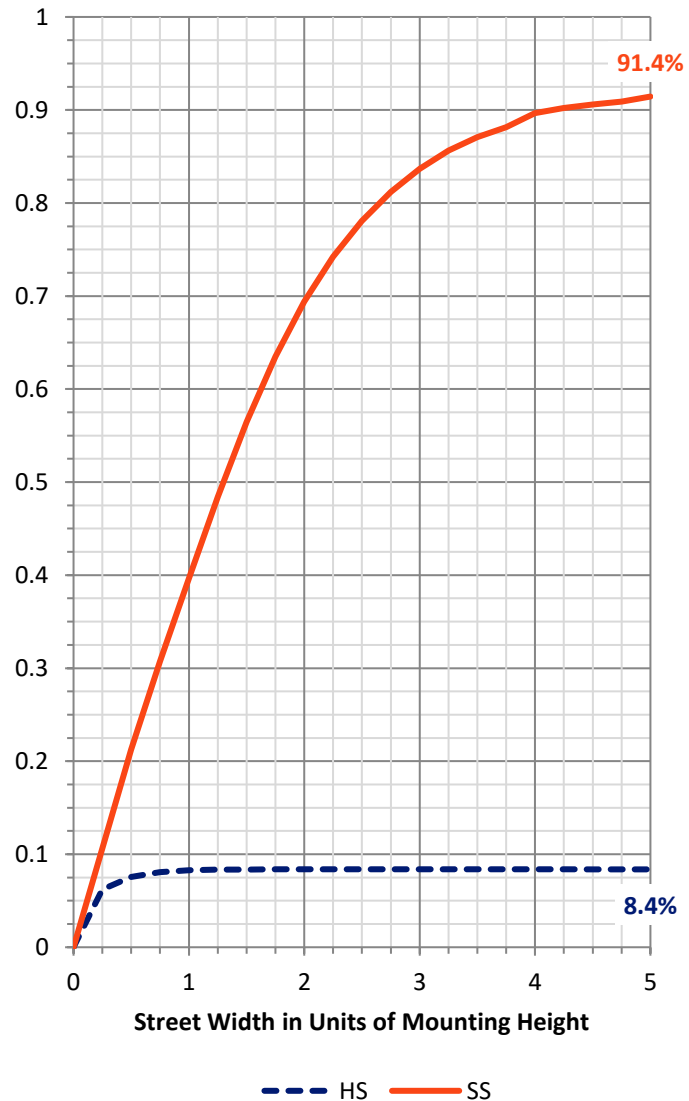
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	255.8	0.0	255.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2777.2	0.0	2777.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	3033.0	0.0	3033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	1.0
10°-20°	87.2	2.9
20°-30°	144.0	4.7
30°-40°	209.0	6.9
40°-50°	339.7	11.2
50°-60°	598.8	19.7
60°-70°	860.6	28.4
70°-80°	689.2	22.7
80°-90°	73.4	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°	3033.0	100.0
0°-180°	3033.0	100.0

Coefficient of Utilization



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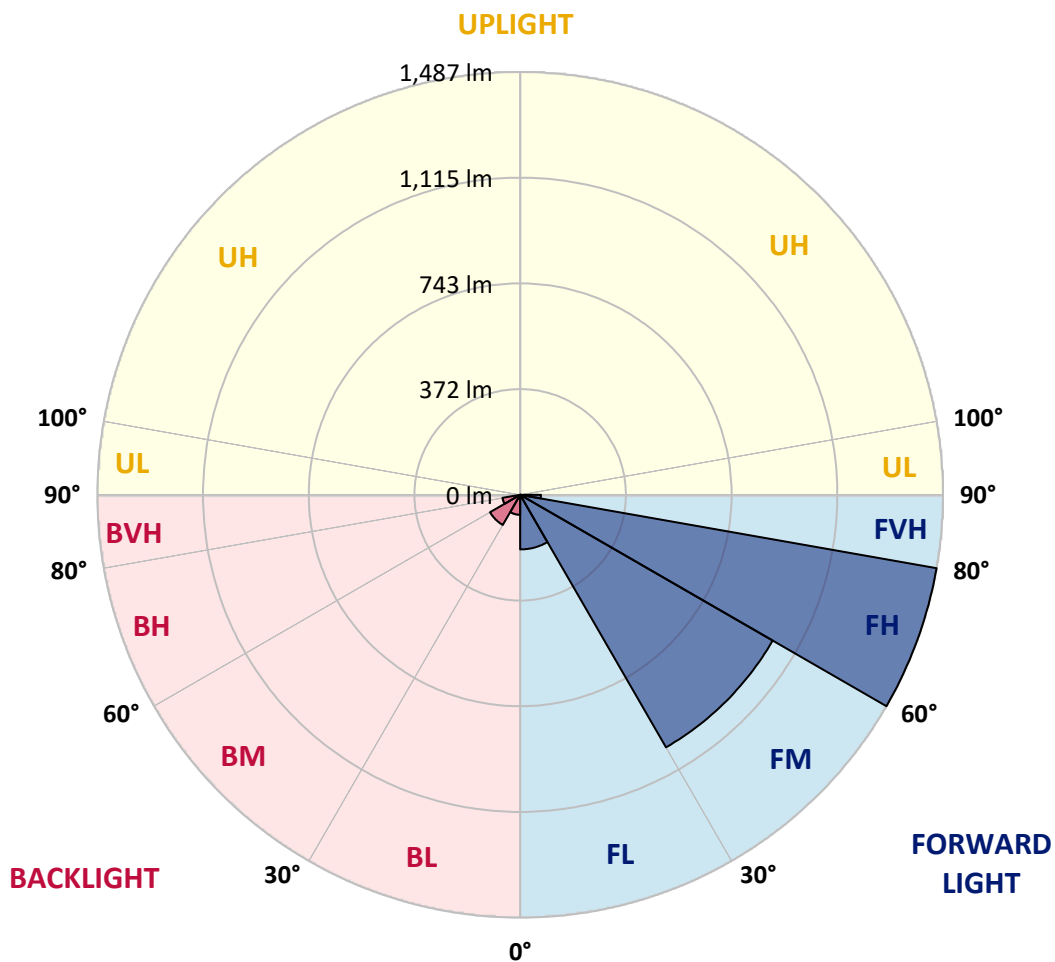
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.1	6.3			
FM	(30°-60°)	1025.2	33.8			
FH	(60°-80°)	1486.7	49.0			G1/1800
FVH	(80°-90°)	73.2	2.4			G1/100
BL	(0°-30°)	70.3	2.3	B0/110		
BM	(30°-60°)	122.3	4.0	B0/220		
BH	(60°-80°)	63.1	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°	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1
2.5°	359.8	359.2	357.5	354.8	352.0	349.2	348.6	344.1	339.1	335.2	331.8
5°	391.7	391.1	388.3	382.2	376.0	368.7	368.2	357.5	348.0	337.4	328.5
7.5°	424.7	423.6	418.5	409.0	398.4	387.2	386.1	370.4	356.4	342.4	329.6
10°	450.4	449.3	442.0	430.8	416.3	402.3	400.6	384.4	370.4	352.5	335.2
12.5°	475.6	473.4	463.9	451.6	433.6	420.2	418.5	401.8	385.0	366.5	345.2
15°	499.1	496.3	487.4	471.7	452.7	439.8	438.7	420.8	403.4	382.2	358.7
17.5°	515.3	514.2	503.6	486.2	467.8	457.1	456.0	437.6	420.2	397.8	372.7
20°	523.7	523.7	513.7	494.6	477.8	470.6	468.9	451.6	434.8	413.5	387.2
22.5°	525.4	527.1	519.3	498.6	486.2	480.1	479.0	463.9	447.6	428.1	403.4
25°	528.8	528.8	524.9	502.5	493.5	491.8	491.3	477.8	463.3	443.7	419.7
27.5°	532.7	532.7	529.9	508.1	504.7	504.1	503.6	497.4	485.7	462.7	438.7
30°	542.8	543.3	541.1	519.3	517.0	523.2	524.3	520.9	506.4	477.8	458.3
32.5°	567.9	562.9	556.7	527.1	531.0	538.8	539.4	532.7	517.0	494.1	481.8
35°	631.2	601.5	573.5	533.8	535.5	543.3	544.4	543.9	534.4	514.8	508.6
37.5°	689.9	648.0	608.2	549.5	543.9	552.3	554.5	564.0	556.7	543.3	545.0
40°	724.0	707.8	679.8	592.6	560.7	573.5	575.8	590.3	587.5	581.9	592.6
42.5°	829.2	830.4	800.1	656.9	591.4	612.1	614.9	626.7	630.6	633.4	659.1
45°	951.2	955.1	947.9	772.7	649.6	656.3	660.3	675.9	690.5	708.4	755.4
47.5°	1097.8	1094.5	1067.6	914.3	750.9	713.4	716.2	746.4	771.6	810.8	877.9
50°	1227.6	1236.0	1185.1	1046.3	893.6	803.5	800.7	830.4	875.7	930.5	1015.0
52.5°	1358.6	1346.3	1277.4	1177.3	1062.6	926.0	917.7	933.9	997.7	1062.6	1149.3
55°	1393.3	1394.4	1370.9	1320.5	1203.6	1074.9	1060.9	1059.8	1139.2	1183.4	1290.3
57.5°	1461.5	1464.3	1469.9	1480.0	1424.6	1223.7	1209.2	1193.5	1270.7	1296.5	1431.9
60°	1530.9	1534.3	1568.4	1622.7	1585.7	1384.3	1368.6	1331.7	1374.8	1409.5	1580.7
62.5°	1522.0	1545.5	1644.5	1752.5	1748.0	1560.6	1541.0	1452.0	1479.4	1509.6	1717.2
65°	1374.2	1399.4	1622.1	1788.3	1910.8	1734.6	1702.7	1576.2	1577.9	1614.3	1848.7
67.5°	1242.2	1269.6	1482.2	1773.2	2018.3	1890.7	1857.7	1701.0	1674.7	1735.1	1919.2
70°	1166.1	1193.5	1370.9	1726.2	2048.5	2063.6	2035.1	1843.7	1790.0	1845.4	1840.3
72.5°	912.6	955.7	1228.8	1636.7	2080.9	2248.8	2226.4	2024.4	1887.9	1730.1	1401.1
75°	363.7	403.4	767.1	1317.2	2040.1	2408.3	2390.9	2105.6	1747.5	1235.5	717.3
77.5°	109.7	117.5	213.2	651.3	1495.7	2135.2	2129.6	1770.4	1236.6	573.5	195.8
80°	36.4	40.3	65.5	179.6	682.6	1334.0	1359.1	1128.0	561.8	131.5	39.7
82.5°	15.1	16.8	33.0	72.2	241.7	574.7	566.3	505.3	195.8	81.7	14.5
85°	3.9	5.0	15.1	41.4	88.4	198.1	208.2	169.5	110.8	67.7	4.5
87.5°	0.0	0.0	7.3	16.8	39.7	59.9	62.7	51.5	62.7	50.9	2.2
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°	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1
2.5°	329.0	326.2	321.2	317.8	313.3	312.2	310.0	307.2	306.6	303.8	304.4
5°	323.4	318.9	310.0	303.8	296.6	294.3	290.4	287.6	285.4	281.5	282.0
7.5°	322.3	315.6	303.3	291.5	279.8	271.4	259.6	250.1	242.3	233.9	235.6
10°	326.2	317.8	300.5	284.2	263.0	236.1	205.4	185.2	175.1	165.1	166.2
12.5°	334.0	324.0	301.6	277.0	233.9	188.0	145.5	118.1	110.8	106.3	106.9
15°	345.8	333.5	305.0	263.0	194.7	136.0	96.8	85.1	87.8	89.5	89.5
17.5°	358.1	344.1	307.7	237.8	150.5	95.1	78.9	77.8	81.7	85.6	85.6
20°	373.2	355.3	308.3	205.9	108.6	77.2	74.4	74.4	77.2	81.7	81.7
22.5°	387.8	367.6	303.3	169.5	82.8	71.6	71.6	71.6	73.3	77.8	78.3
25°	405.1	382.7	292.6	130.9	71.1	68.3	68.3	68.8	69.9	73.9	74.4
27.5°	423.6	398.4	274.7	95.7	64.9	64.3	64.9	65.5	66.0	69.9	71.1
30°	444.8	415.7	251.8	71.6	59.3	59.3	61.0	62.1	62.1	65.5	66.6
32.5°	469.5	438.7	224.4	59.3	53.7	53.2	56.0	57.6	57.6	60.4	61.5
35°	500.2	462.2	191.4	52.6	49.2	48.1	49.2	52.0	53.2	55.4	56.0
37.5°	541.1	490.2	156.1	48.7	45.9	43.6	43.6	44.2	46.4	48.7	49.2
40°	593.1	520.9	121.4	45.9	42.5	40.3	38.6	38.0	37.5	39.2	40.3
42.5°	658.6	555.6	90.6	43.1	39.7	36.4	34.1	31.9	29.1	28.5	29.1
45°	742.5	598.2	67.1	40.8	38.0	33.0	29.1	25.2	20.1	18.5	19.0
47.5°	841.6	642.4	52.6	38.6	36.9	29.1	24.1	17.3	12.3	11.2	11.8
50°	946.7	684.9	44.8	35.8	34.7	25.2	17.3	10.6	7.3	7.3	7.8
52.5°	1036.3	708.9	40.8	33.6	31.3	20.7	11.2	6.2	4.5	4.5	5.0
55°	1123.0	721.8	38.0	31.3	26.9	14.5	6.2	3.9	2.8	2.8	2.8
57.5°	1212.5	727.4	34.7	28.5	21.3	9.0	3.4	2.2	1.7	1.7	1.7
60°	1292.0	716.8	29.7	23.5	14.0	4.5	1.7	1.7	1.1	0.6	0.6
62.5°	1358.6	696.6	20.7	16.8	8.4	2.2	1.1	0.6	0.0	0.0	0.0
65°	1399.4	664.2	13.4	11.2	5.0	1.7	0.6	0.0	0.0	0.0	0.0
67.5°	1387.7	603.2	8.4	7.3	2.2	1.1	0.6	0.0	0.0	0.0	0.0
70°	1252.3	494.6	6.2	4.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	902.5	334.6	4.5	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	434.2	119.2	2.8	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	106.3	26.3	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.5	5.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)