

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: P397767

Luminaire Tested: **ARCH-S-PA1-40-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397767
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-PA1-40-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 500mA 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: 3914 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 - G2

Input Watts (W): 40
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

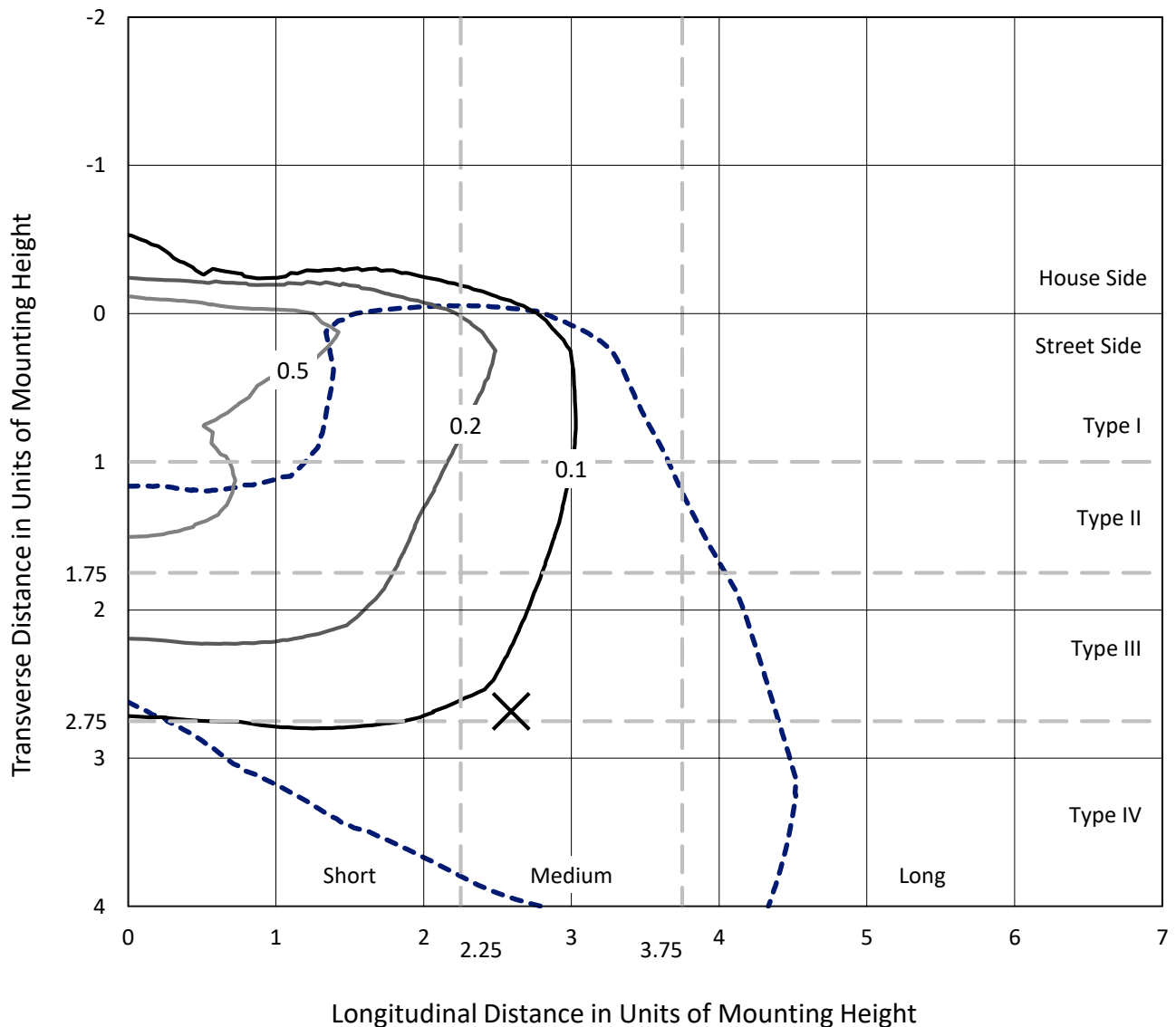


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

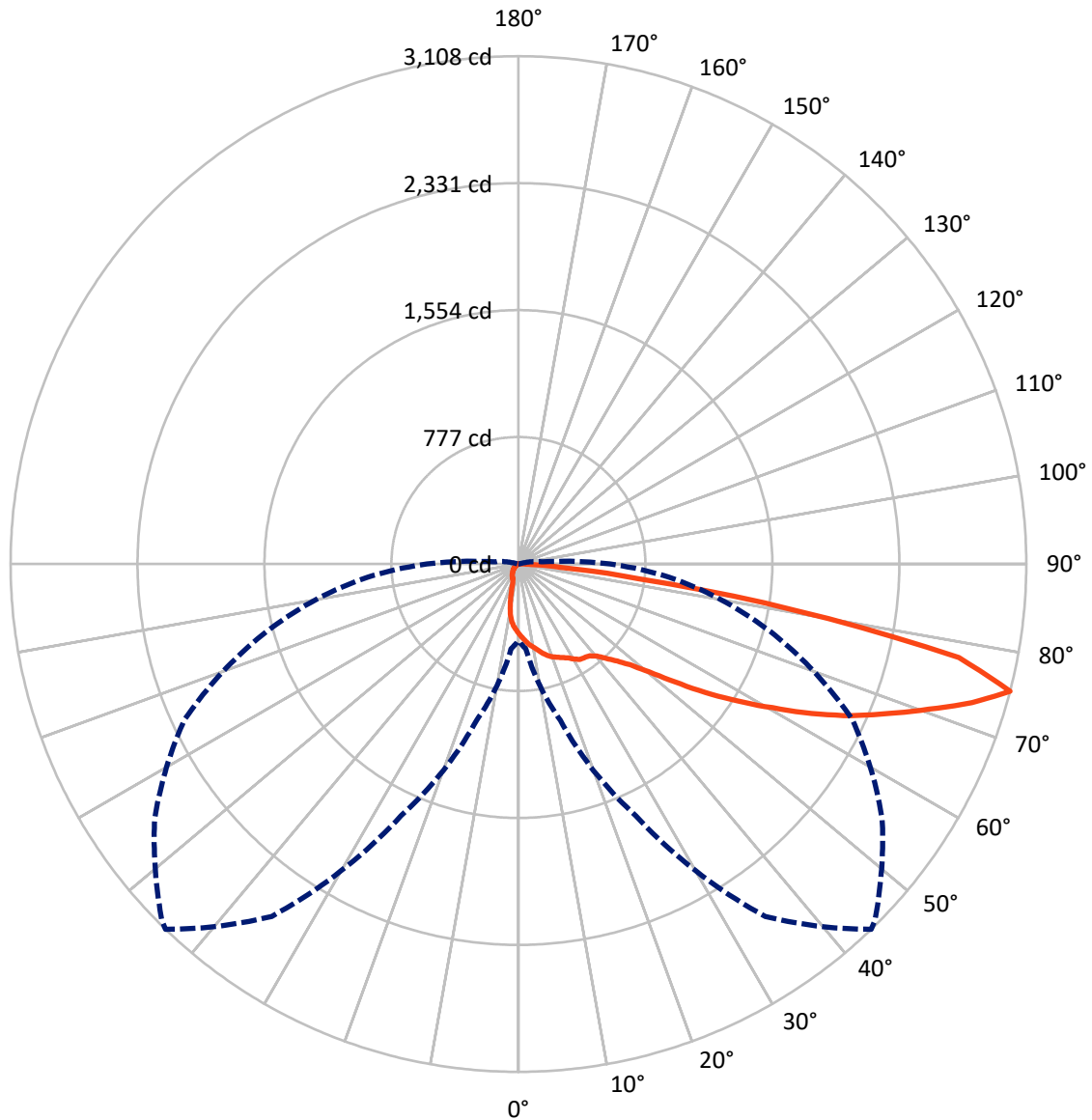


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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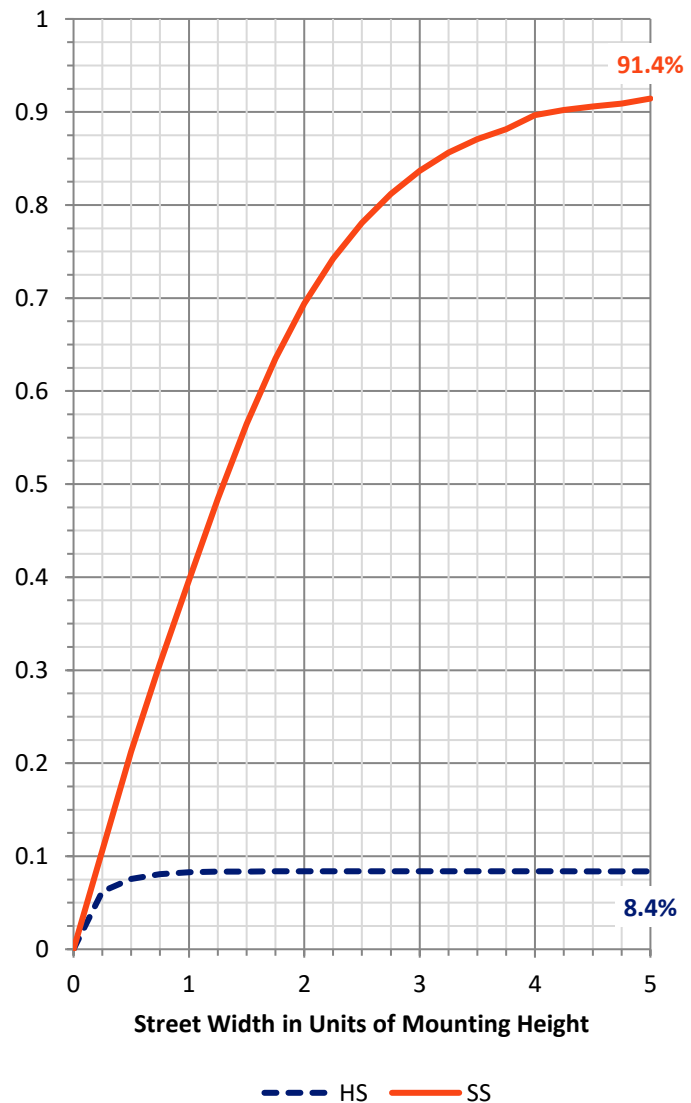
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.1	0.0	330.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3583.9	0.0	3583.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3914.0	0.0	3914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	112.6	2.9
20°-30°	185.8	4.7
30°-40°	269.7	6.9
40°-50°	438.3	11.2
50°-60°	772.7	19.7
60°-70°	1110.6	28.4
70°-80°	889.3	22.7
80°-90°	94.8	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°	3914.0	100.0
0°-180°	3914.0	100.0

Coefficient of Utilization



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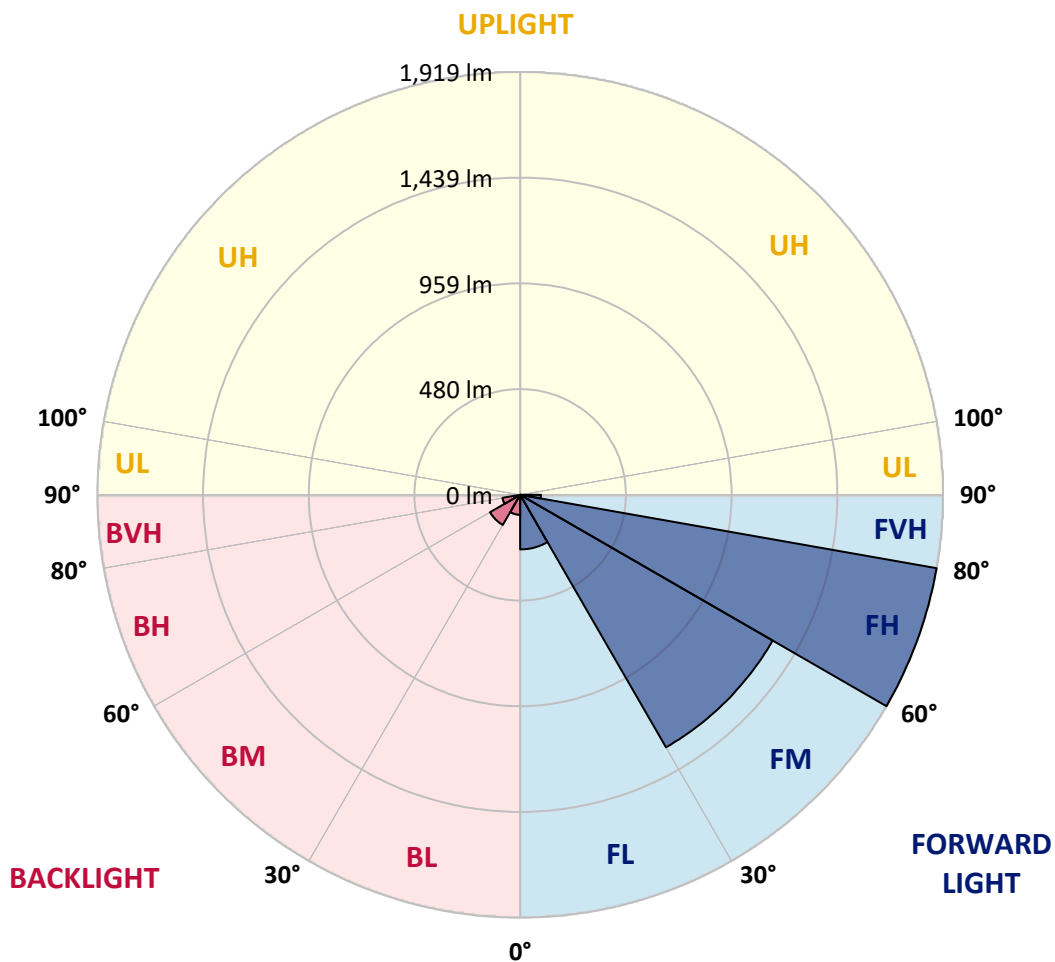
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.9	6.3			
FM	(30°-60°)	1323.0	33.8			
FH	(60°-80°)	1918.6	49.0			G2/5000
FVH	(80°-90°)	94.5	2.4			G1/100
BL	(0°-30°)	90.7	2.3	B0/110		
BM	(30°-60°)	157.8	4.0	B0/220		
BH	(60°-80°)	81.4	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	464.3	463.6	461.4	457.8	454.2	450.6	449.9	444.1	437.6	432.5	428.2
5°	505.5	504.7	501.1	493.2	485.2	475.8	475.1	461.4	449.1	435.4	423.9
7.5°	548.1	546.6	540.1	527.8	514.1	499.7	498.2	478.0	460.0	441.9	425.3
10°	581.3	579.8	570.4	556.0	537.2	519.2	517.0	496.1	478.0	454.9	432.5
12.5°	613.8	610.9	598.6	582.7	559.6	542.3	540.1	518.4	496.8	473.0	445.5
15°	644.1	640.5	628.9	608.7	584.2	567.6	566.1	543.0	520.6	493.2	462.8
17.5°	665.0	663.6	649.9	627.5	603.7	589.9	588.5	564.7	542.3	513.4	480.9
20°	675.9	675.9	662.9	638.3	616.7	607.3	605.1	582.7	561.1	533.6	499.7
22.5°	678.0	680.2	670.1	643.4	627.5	619.5	618.1	598.6	577.7	552.4	520.6
25°	682.4	682.4	677.3	648.4	636.9	634.7	634.0	616.7	597.9	572.6	541.6
27.5°	687.4	687.4	683.8	655.6	651.3	650.6	649.9	641.9	626.8	597.2	566.1
30°	700.4	701.1	698.2	670.1	667.2	675.1	676.6	672.3	653.5	616.7	591.4
32.5°	732.9	726.4	718.5	680.2	685.2	695.4	696.1	687.4	667.2	637.6	621.7
35°	814.5	776.2	740.1	688.9	691.0	701.1	702.6	701.9	689.6	664.3	656.4
37.5°	890.3	836.2	784.9	709.1	701.9	712.7	715.6	727.9	718.5	701.1	703.3
40°	934.4	913.4	877.3	764.7	723.5	740.1	743.0	761.8	758.2	751.0	764.7
42.5°	1070.1	1071.6	1032.6	847.7	763.2	789.9	793.6	808.7	813.8	817.4	850.6
45°	1227.5	1232.6	1223.2	997.2	838.3	847.0	852.0	872.3	891.0	914.1	974.8
47.5°	1416.7	1412.4	1377.7	1179.9	969.0	920.6	924.3	963.2	995.7	1046.3	1132.9
50°	1584.2	1595.1	1529.4	1350.3	1153.2	1036.9	1033.3	1071.6	1130.0	1200.8	1309.8
52.5°	1753.2	1737.3	1648.5	1519.2	1371.2	1195.0	1184.2	1205.1	1287.5	1371.2	1483.1
55°	1798.0	1799.4	1769.1	1704.1	1553.2	1387.1	1369.1	1367.6	1470.1	1527.2	1665.1
57.5°	1886.1	1889.7	1896.9	1909.9	1838.4	1579.2	1560.4	1540.2	1639.8	1673.0	1847.8
60°	1975.6	1979.9	2024.0	2094.0	2046.4	1786.4	1766.2	1718.5	1774.1	1818.9	2039.9
62.5°	1964.0	1994.4	2122.2	2261.5	2255.8	2013.9	1988.6	1873.8	1909.2	1948.2	2216.0
65°	1773.4	1805.9	2093.3	2307.8	2465.9	2238.4	2197.3	2034.1	2036.3	2083.2	2385.7
67.5°	1603.0	1638.4	1912.8	2288.3	2604.5	2439.9	2397.3	2195.1	2161.2	2239.2	2476.7
70°	1504.8	1540.2	1769.1	2227.6	2643.5	2663.0	2626.2	2379.2	2309.9	2381.4	2374.9
72.5°	1177.7	1233.3	1585.7	2112.1	2685.4	2902.0	2873.1	2612.5	2436.3	2232.7	1808.1
75°	469.3	520.6	990.0	1699.8	2632.7	3107.8	3085.4	2717.2	2255.0	1594.3	925.7
77.5°	141.5	151.6	275.1	840.5	1930.1	2755.4	2748.2	2284.6	1595.8	740.1	252.7
80°	46.9	52.0	84.5	231.8	880.9	1721.4	1753.9	1455.7	725.0	169.7	51.3
82.5°	19.5	21.7	42.6	93.1	311.9	741.6	730.7	652.0	252.7	105.4	18.8
85°	5.1	6.5	19.5	53.4	114.1	255.6	268.6	218.8	143.0	87.4	5.8
87.5°	0.0	0.0	9.4	21.7	51.3	77.3	80.9	66.4	80.9	65.7	2.9
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°	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0	426.0
2.5°	424.6	421.0	414.5	410.1	404.4	402.9	400.0	396.4	395.7	392.1	392.8
5°	417.4	411.6	400.0	392.1	382.7	379.8	374.8	371.1	368.3	363.2	363.9
7.5°	415.9	407.3	391.4	376.2	361.0	350.2	335.0	322.8	312.7	301.8	304.0
10°	421.0	410.1	387.8	366.8	339.4	304.7	265.0	239.0	226.0	213.0	214.5
12.5°	431.1	418.1	389.2	357.4	301.8	242.6	187.7	152.4	143.0	137.2	137.9
15°	446.2	430.4	393.5	339.4	251.3	175.5	124.9	109.8	113.4	115.5	115.5
17.5°	462.1	444.1	397.1	306.9	194.2	122.8	101.8	100.4	105.4	110.5	110.5
20°	481.6	458.5	397.9	265.7	140.1	99.6	96.0	96.0	99.6	105.4	105.4
22.5°	500.4	474.4	391.4	218.8	106.9	92.4	92.4	92.4	94.6	100.4	101.1
25°	522.8	493.9	377.6	169.0	91.7	88.1	88.1	88.8	90.3	95.3	96.0
27.5°	546.6	514.1	354.5	123.5	83.8	83.0	83.8	84.5	85.2	90.3	91.7
30°	574.0	536.5	324.9	92.4	76.5	76.5	78.7	80.2	80.2	84.5	85.9
32.5°	605.8	566.1	289.6	76.5	69.3	68.6	72.2	74.4	74.4	78.0	79.4
35°	645.5	596.4	246.9	67.9	63.5	62.1	63.5	67.2	68.6	71.5	72.2
37.5°	698.2	632.5	201.5	62.8	59.2	56.3	56.3	57.0	59.9	62.8	63.5
40°	765.4	672.3	156.7	59.2	54.9	52.0	49.8	49.1	48.4	50.5	52.0
42.5°	849.9	717.0	117.0	55.6	51.3	46.9	44.0	41.2	37.5	36.8	37.5
45°	958.2	771.9	86.6	52.7	49.1	42.6	37.5	32.5	26.0	23.8	24.6
47.5°	1086.0	828.9	67.9	49.8	47.7	37.5	31.0	22.4	15.9	14.4	15.2
50°	1221.8	883.8	57.8	46.2	44.8	32.5	22.4	13.7	9.4	9.4	10.1
52.5°	1337.3	914.9	52.7	43.3	40.4	26.7	14.4	7.9	5.8	5.8	6.5
55°	1449.2	931.5	49.1	40.4	34.7	18.8	7.9	5.1	3.6	3.6	3.6
57.5°	1564.7	938.7	44.8	36.8	27.4	11.6	4.3	2.9	2.2	2.2	2.2
60°	1667.3	925.0	38.3	30.3	18.1	5.8	2.2	2.2	1.4	0.7	0.7
62.5°	1753.2	899.0	26.7	21.7	10.8	2.9	1.4	0.7	0.0	0.0	0.0
65°	1805.9	857.1	17.3	14.4	6.5	2.2	0.7	0.0	0.0	0.0	0.0
67.5°	1790.7	778.4	10.8	9.4	2.9	1.4	0.7	0.0	0.0	0.0	0.0
70°	1616.0	638.3	7.9	5.8	2.2	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	1164.7	431.8	5.8	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	560.3	153.8	3.6	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	137.2	33.9	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.3	6.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.7	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)