

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: P573076

Luminaire Tested: **ARCH-S-PA2-30-740-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4036 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

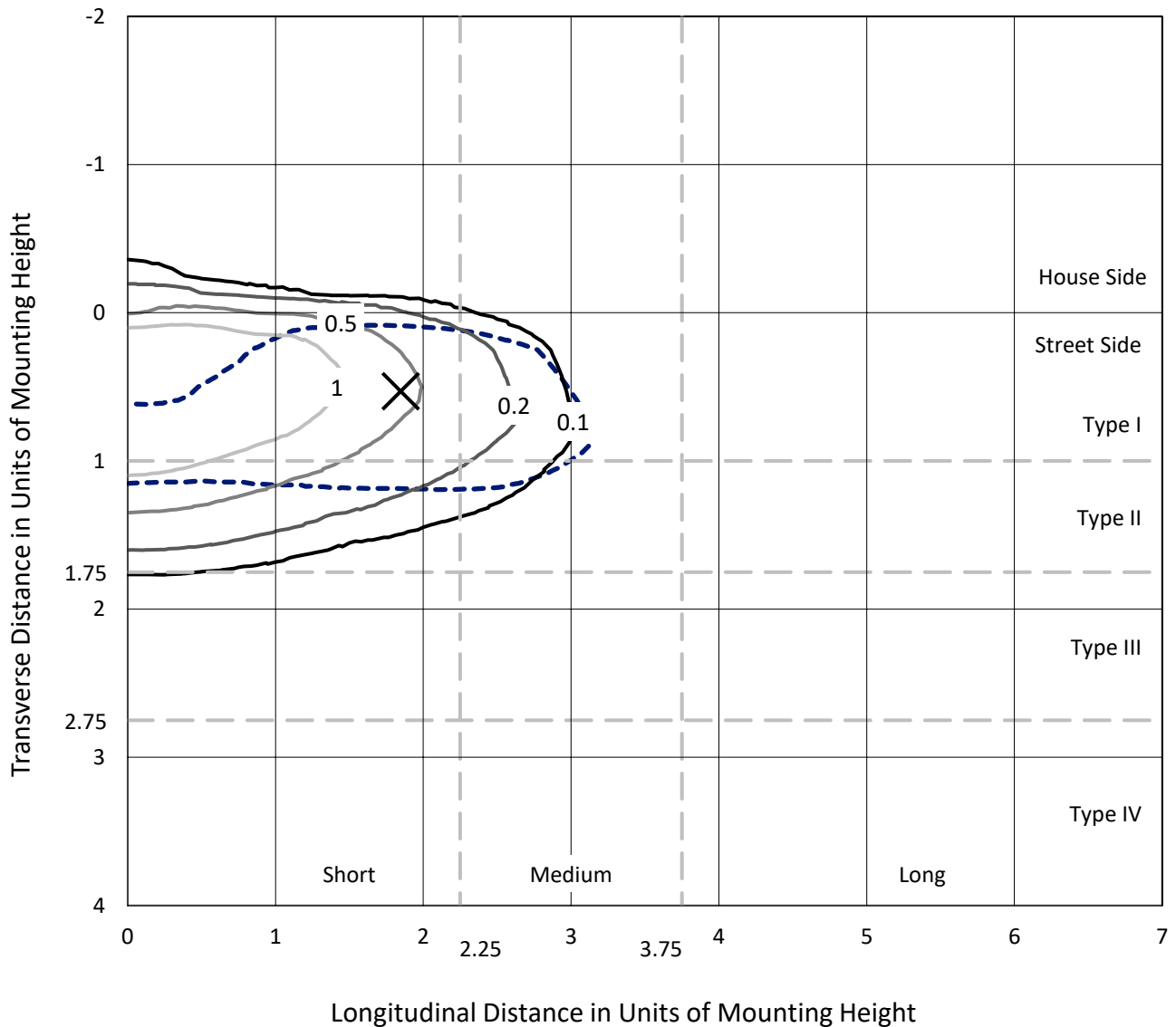
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

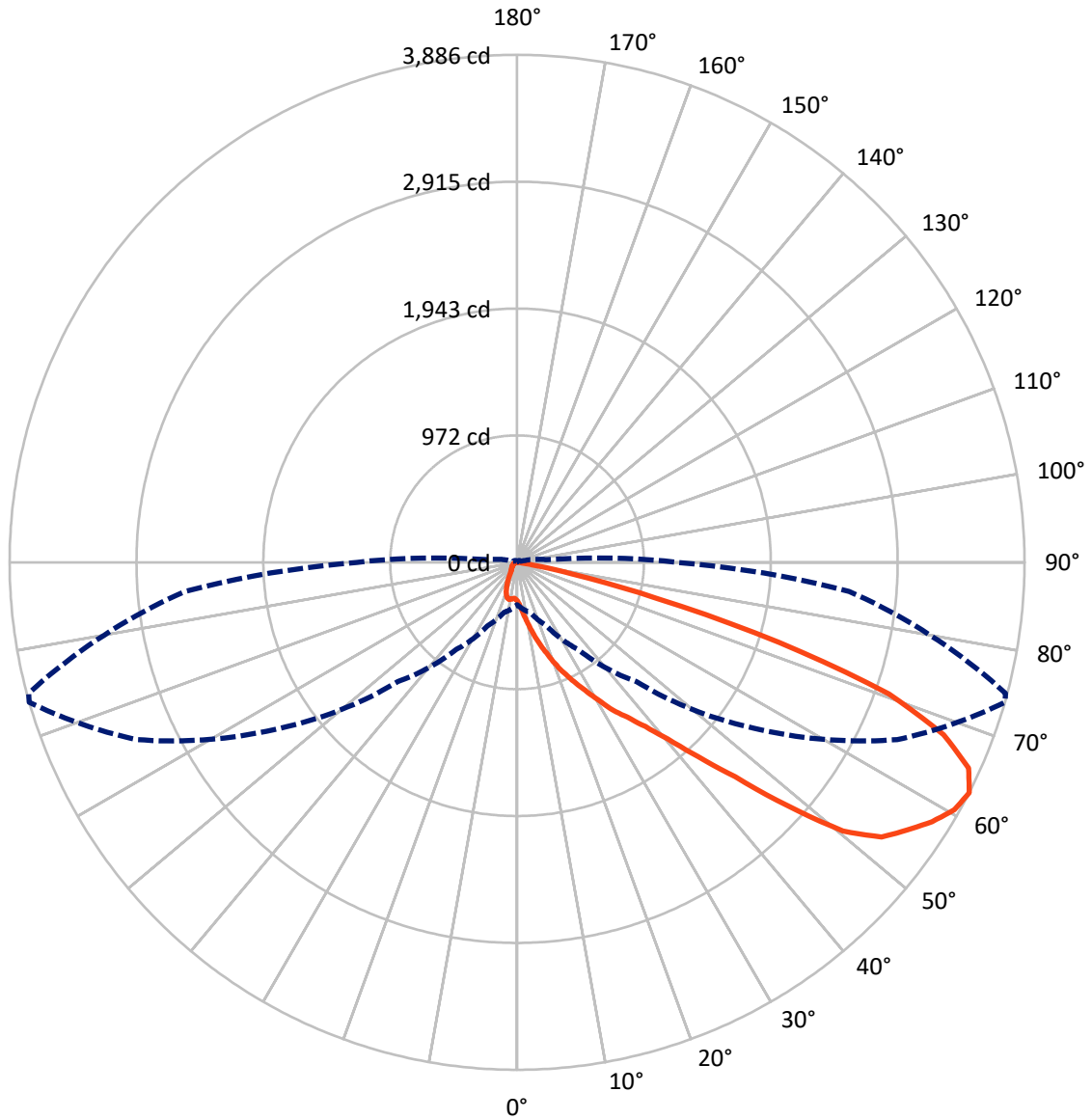
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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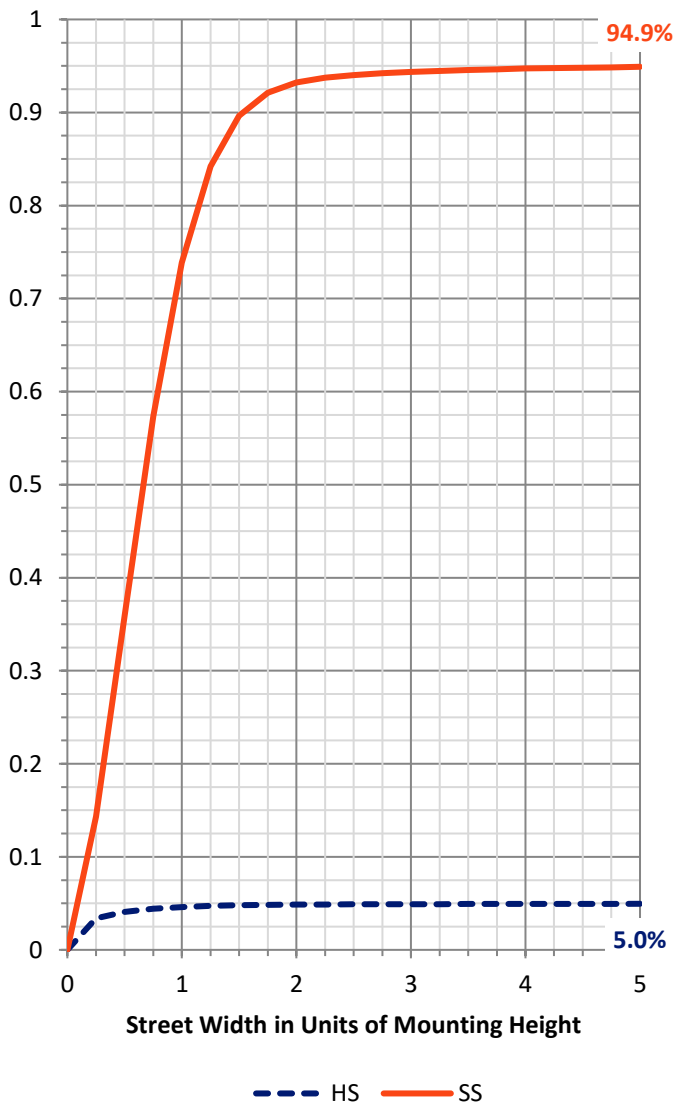
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	201.3	0.0	201.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3834.7	0.0	3834.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	4036.0	0.0	4036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	0.9
10°-20°	155.2	3.8
20°-30°	333.1	8.3
30°-40°	584.2	14.5
40°-50°	905.6	22.4
50°-60°	1044.0	25.9
60°-70°	733.4	18.2
70°-80°	228.5	5.7
80°-90°	15.1	0.4
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°	4036.0	100.0
0°-180°	4036.0	100.0

Coefficient of Utilization



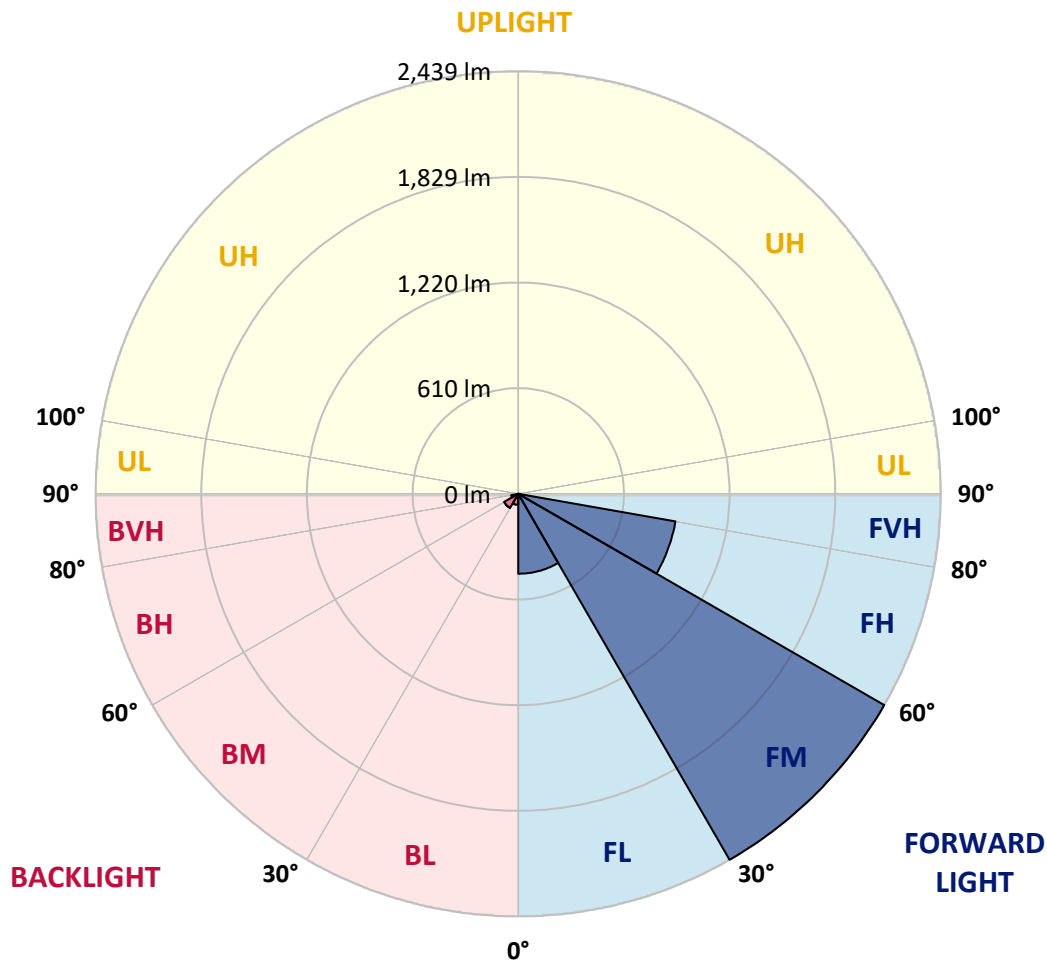
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.3	11.4			
FM (30°-60°)	2439.1	60.4			
FH (60°-80°)	921.2	22.8			G1/1800
FVH (80°-90°)	13.0	0.3			G1/100
BL (0°-30°)	63.9	1.6	B0/110		
BM (30°-60°)	94.6	2.3	B0/220		
BH (60°-80°)	40.7	1.0	B0/110		G0/110
BVH (80°-90°)	2.1	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4
2.5°	410.5	403.4	394.9	387.8	373.6	363.6	350.8	336.6	321.0	319.6	306.8
5°	575.3	554.0	554.0	535.5	514.2	475.8	440.3	396.3	363.6	360.8	326.7
7.5°	744.3	727.3	717.3	688.9	654.8	612.2	555.4	481.5	421.9	411.9	356.5
10°	902.0	889.2	870.7	848.0	818.2	748.6	677.5	581.0	485.8	478.7	392.0
12.5°	1024.1	1008.5	1000.0	990.0	951.7	896.3	804.0	681.8	568.2	552.5	427.5
15°	1116.5	1109.3	1100.8	1100.8	1080.9	1027.0	931.8	789.8	647.7	629.2	473.0
17.5°	1190.3	1181.8	1180.4	1188.9	1183.2	1144.9	1055.4	893.4	730.1	715.9	519.9
20°	1272.7	1261.3	1261.3	1268.4	1267.0	1245.7	1167.6	1012.8	826.7	801.1	573.9
22.5°	1389.2	1382.1	1376.4	1365.0	1356.5	1336.6	1268.4	1129.2	919.0	894.9	629.2
25°	1545.4	1536.9	1511.3	1491.4	1454.5	1424.7	1366.4	1232.9	1012.8	985.8	683.2
27.5°	1697.4	1680.4	1656.2	1630.6	1589.5	1538.3	1465.9	1330.9	1110.8	1082.4	738.6
30°	1857.9	1845.1	1815.3	1774.1	1723.0	1666.2	1579.5	1448.8	1223.0	1191.7	798.3
32.5°	1985.7	1965.9	1938.9	1899.1	1846.5	1806.8	1713.0	1578.1	1352.2	1311.0	860.8
35°	2088.0	2072.4	2036.9	1998.5	1958.8	1947.4	1845.1	1683.2	1455.9	1417.6	927.5
37.5°	2153.4	2137.7	2107.9	2069.6	2053.9	2073.8	2007.1	1826.7	1595.1	1546.8	1004.2
40°	2204.5	2186.0	2161.9	2144.8	2139.2	2194.6	2187.4	2012.7	1778.4	1750.0	1109.3
42.5°	2241.4	2223.0	2207.3	2205.9	2242.8	2350.8	2430.3	2272.7	2034.0	1975.8	1244.3
45°	2194.6	2178.9	2187.4	2237.2	2326.6	2497.1	2724.4	2640.6	2342.3	2301.1	1460.2
47.5°	2063.9	2053.9	2092.3	2183.2	2349.4	2586.6	3008.5	3044.0	2782.6	2720.1	1740.0
50°	1859.3	1857.9	1919.0	2042.6	2278.4	2620.7	3151.9	3431.7	3234.3	3170.4	1967.3
52.5°	1582.3	1576.7	1666.2	1838.0	2110.7	2556.8	3178.9	3586.6	3495.7	3420.4	2110.7
55°	1268.4	1255.7	1362.2	1551.1	1863.6	2370.7	3106.5	3620.7	3620.7	3552.5	2217.3
57.5°	892.0	911.9	1000.0	1227.2	1558.2	2092.3	2927.5	3589.4	3747.1	3688.8	2360.7
60°	562.5	571.0	667.6	850.8	1181.8	1720.1	2607.9	3454.5	3847.9	3813.8	2475.8
62.5°	323.9	350.8	399.1	538.3	815.3	1292.6	2213.0	3211.6	3886.3	3872.1	2551.1
65°	197.4	200.3	223.0	304.0	501.4	882.1	1771.3	2873.5	3799.6	3812.4	2536.9
67.5°	147.7	147.7	154.8	191.8	285.5	561.1	1306.8	2463.0	3522.6	3563.8	2403.4
70°	127.8	127.8	129.3	140.6	176.1	332.4	863.6	1985.7	3019.8	3015.6	1985.7
72.5°	100.8	105.1	113.6	119.3	133.5	194.6	505.7	1387.8	2098.0	2147.7	1278.4
75°	81.0	82.4	93.7	103.7	112.2	132.1	238.6	771.3	1100.8	1100.8	562.5
77.5°	62.5	65.3	72.4	82.4	93.7	93.7	99.4	298.3	426.1	411.9	166.2
80°	39.8	41.2	52.6	65.3	78.1	66.8	54.0	99.4	116.5	112.2	45.5
82.5°	24.1	25.6	34.1	52.6	52.6	36.9	34.1	41.2	36.9	34.1	18.5
85°	7.1	8.5	24.1	34.1	29.8	14.2	17.0	18.5	17.0	15.6	9.9
87.5°	1.4	1.4	7.1	8.5	7.1	7.1	5.7	7.1	7.1	7.1	4.3
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°	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4	295.4
2.5°	299.7	294.0	282.7	274.1	267.0	259.9	254.3	252.8	250.0	250.0	248.6
5°	312.5	299.7	278.4	264.2	252.8	242.9	234.4	225.8	223.0	220.2	221.6
7.5°	332.4	312.5	282.7	261.4	241.5	218.7	200.3	184.7	173.3	170.5	166.2
10°	357.9	328.1	289.8	255.7	218.7	179.0	153.4	137.8	132.1	125.0	126.4
12.5°	383.5	346.6	295.4	240.1	180.4	140.6	119.3	109.4	105.1	103.7	105.1
15°	413.3	366.5	292.6	211.6	144.9	113.6	100.8	96.6	93.7	93.7	92.3
17.5°	443.2	383.5	282.7	174.7	116.5	96.6	90.9	86.6	83.8	82.4	82.4
20°	475.8	399.1	259.9	139.2	96.6	88.1	82.4	76.7	73.9	73.9	73.9
22.5°	509.9	410.5	230.1	110.8	86.6	78.1	72.4	68.2	65.3	65.3	65.3
25°	539.8	416.2	194.6	92.3	79.5	71.0	65.3	61.1	59.7	58.2	58.2
27.5°	568.2	414.8	157.7	81.0	71.0	63.9	58.2	55.4	52.6	52.6	52.6
30°	596.6	406.2	125.0	73.9	65.3	56.8	52.6	49.7	48.3	46.9	46.9
32.5°	620.7	392.0	98.0	68.2	59.7	51.1	46.9	44.0	44.0	42.6	42.6
35°	644.9	370.7	82.4	63.9	54.0	46.9	42.6	41.2	39.8	39.8	39.8
37.5°	670.4	343.7	72.4	58.2	48.3	42.6	39.8	38.4	36.9	35.5	35.5
40°	701.7	316.8	68.2	54.0	44.0	38.4	35.5	34.1	32.7	32.7	32.7
42.5°	751.4	294.0	63.9	48.3	39.8	35.5	32.7	29.8	29.8	28.4	28.4
45°	845.2	285.5	59.7	44.0	36.9	31.2	29.8	27.0	25.6	25.6	25.6
47.5°	967.3	286.9	55.4	39.8	34.1	28.4	27.0	25.6	22.7	22.7	22.7
50°	1068.2	279.8	51.1	36.9	29.8	27.0	24.1	22.7	21.3	21.3	21.3
52.5°	1107.9	267.0	46.9	34.1	28.4	24.1	22.7	21.3	19.9	19.9	19.9
55°	1147.7	261.4	42.6	29.8	25.6	24.1	21.3	19.9	18.5	17.0	17.0
57.5°	1220.1	264.2	38.4	28.4	24.1	22.7	19.9	17.0	14.2	12.8	12.8
60°	1258.5	254.3	35.5	25.6	22.7	21.3	17.0	12.8	9.9	8.5	8.5
62.5°	1225.8	225.8	32.7	24.1	21.3	18.5	12.8	9.9	7.1	4.3	4.3
65°	1134.9	186.1	29.8	22.7	18.5	14.2	11.4	7.1	4.3	2.8	2.8
67.5°	1019.9	146.3	27.0	21.3	17.0	12.8	9.9	5.7	2.8	1.4	1.4
70°	823.8	105.1	25.6	19.9	15.6	11.4	8.5	5.7	2.8	1.4	1.4
72.5°	531.2	68.2	22.7	18.5	14.2	11.4	7.1	4.3	2.8	1.4	1.4
75°	245.7	45.5	21.3	17.0	14.2	9.9	7.1	5.7	2.8	1.4	1.4
77.5°	72.4	32.7	19.9	15.6	12.8	9.9	7.1	5.7	2.8	1.4	1.4
80°	29.8	22.7	15.6	14.2	12.8	9.9	7.1	5.7	2.8	1.4	1.4
82.5°	14.2	9.9	7.1	5.7	7.1	7.1	5.7	5.7	2.8	1.4	1.4
85°	7.1	4.3	2.8	2.8	2.8	1.4	1.4	2.8	2.8	1.4	1.4
87.5°	4.3	2.8	2.8	2.8	1.4	1.4	1.4	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)