

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: P397718

Luminaire Tested: **ARCH-S-PA1-30-760-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-760-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3227 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

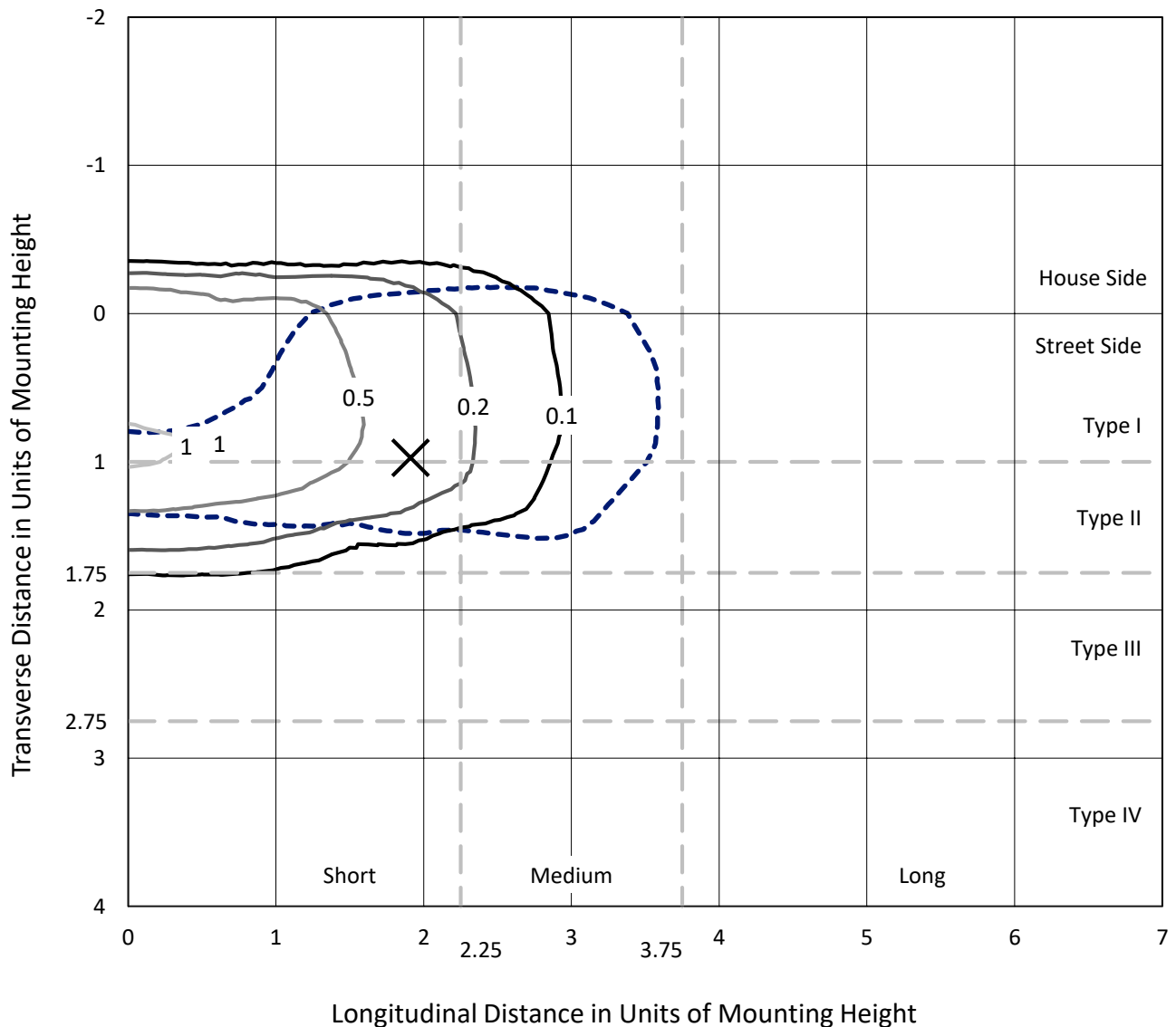
Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

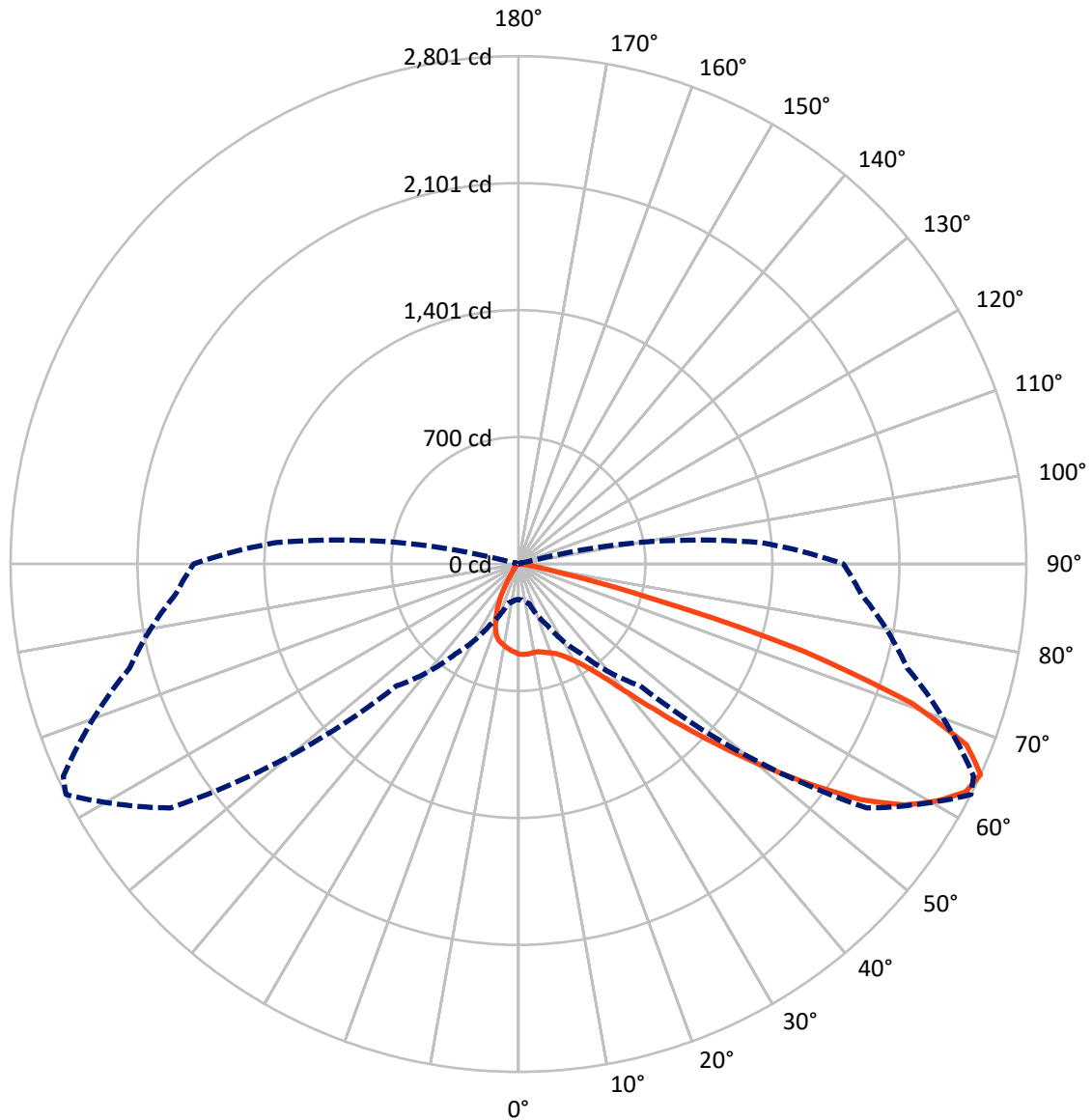


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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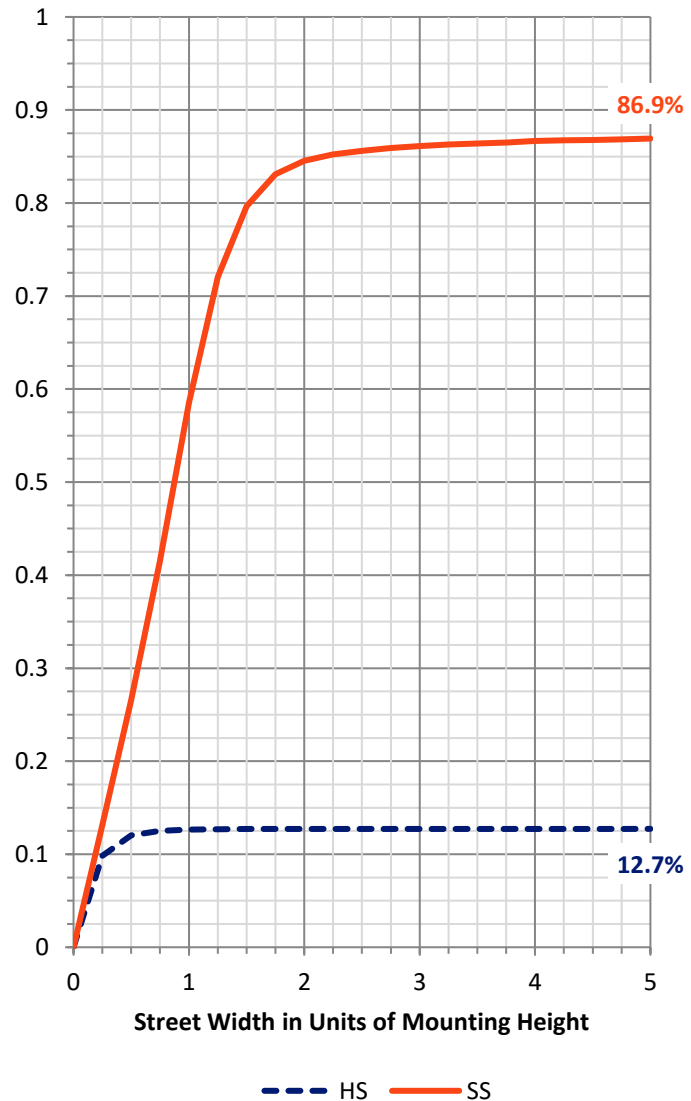
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	415.3	0.0	415.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2811.7	0.0	2811.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	3227.0	0.0	3227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.4
10°-20°	111.9	3.5
20°-30°	165.9	5.1
30°-40°	308.0	9.5
40°-50°	652.4	20.2
50°-60°	902.1	28.0
60°-70°	722.1	22.4
70°-80°	300.0	9.3
80°-90°	19.3	0.6
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°	3227.0	100.0
0°-180°	3227.0	100.0



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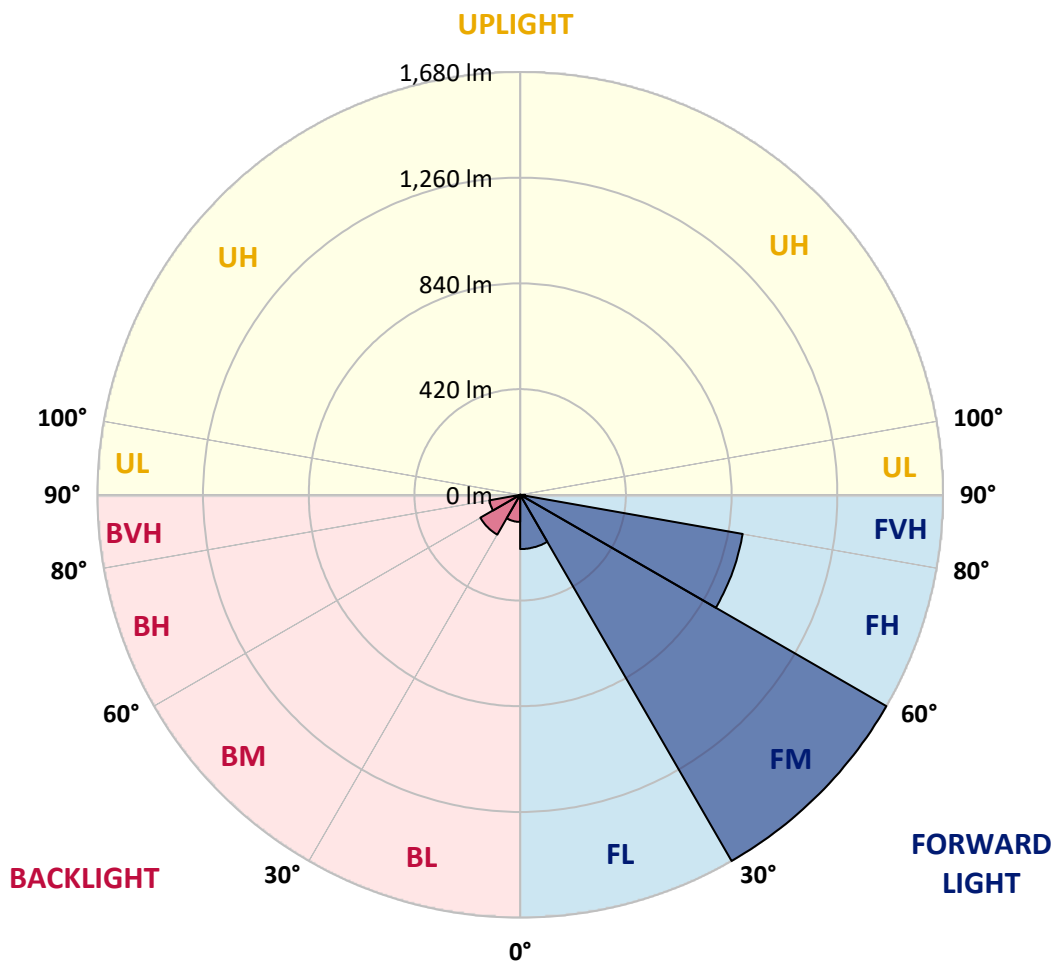
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.5	6.7			
FM (30°-60°)	1680.0	52.1			
FH (60°-80°)	897.8	27.8			G1/1800
FVH (80°-90°)	18.4	0.6			G1/100
BL (0°-30°)	107.6	3.3	B0/110		
BM (30°-60°)	182.4	5.7	B0/220		
BH (60°-80°)	124.4	3.9	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1
2.5°	505.7	504.4	503.2	502.6	502.6	502.0	499.6	498.9	497.7	496.5	495.3
5°	500.8	498.9	498.3	498.9	499.6	500.8	499.6	499.6	498.3	497.1	494.7
7.5°	488.6	487.4	488.0	489.8	490.4	494.7	495.3	497.1	497.1	495.9	494.1
10°	474.0	473.4	473.4	476.4	479.5	485.5	489.8	494.7	495.3	495.3	492.2
12.5°	463.0	462.4	464.2	467.9	474.0	481.9	489.2	496.5	497.7	498.3	493.5
15°	456.3	456.3	458.7	466.1	474.6	485.5	494.1	503.8	505.0	504.4	497.7
17.5°	450.2	450.8	455.7	467.9	477.6	492.2	502.6	513.6	514.2	513.6	502.6
20°	447.8	449.0	456.3	472.1	483.1	499.6	513.0	523.9	524.5	522.1	507.5
22.5°	454.5	455.1	464.2	481.3	491.6	509.9	527.0	537.3	537.9	534.3	514.8
25°	477.6	477.6	485.5	500.2	509.3	527.6	545.9	558.0	558.0	553.8	531.2
27.5°	531.8	527.0	525.1	529.4	532.5	552.0	571.4	586.7	586.1	580.0	552.6
30°	636.6	624.4	605.0	583.0	572.1	585.5	603.7	623.2	622.6	612.9	578.8
32.5°	812.7	795.0	748.7	690.9	643.9	628.7	645.8	667.1	667.7	656.1	620.8
35°	1059.4	1031.4	948.6	868.1	760.9	703.0	707.9	731.1	738.4	732.3	691.5
37.5°	1297.0	1271.4	1192.2	1080.8	935.1	817.0	796.2	816.4	824.9	824.9	781.6
40°	1536.4	1506.6	1436.5	1324.4	1170.9	994.9	920.5	937.0	946.1	947.9	891.3
42.5°	1728.3	1708.9	1655.2	1568.1	1424.3	1306.8	1099.6	1090.5	1099.0	1092.3	1018.6
45°	1861.2	1845.9	1808.8	1775.9	1705.8	1646.7	1339.1	1277.5	1283.0	1259.9	1161.8
47.5°	1888.6	1871.5	1863.6	1909.3	1959.2	1973.9	1633.3	1499.9	1494.4	1443.2	1310.4
50°	1769.2	1771.0	1800.2	1930.6	2139.0	2270.6	1974.5	1750.9	1730.8	1616.9	1448.7
52.5°	1511.5	1540.7	1614.4	1825.8	2193.8	2486.2	2315.6	2017.1	1986.0	1785.6	1552.3
55°	1182.5	1220.3	1341.5	1584.6	2079.3	2582.5	2603.2	2293.7	2223.0	1912.3	1632.7
57.5°	879.1	890.7	1032.0	1253.8	1808.2	2488.0	2750.6	2506.9	2416.2	2013.5	1712.5
60°	547.7	555.0	704.3	954.6	1369.5	2139.0	2750.6	2653.7	2567.2	2104.2	1785.6
62.5°	340.6	343.0	399.0	654.3	930.9	1586.4	2636.7	2767.7	2698.2	2169.4	1848.4
65°	196.2	198.6	224.8	369.8	605.6	949.8	2345.5	2801.2	2770.1	2221.2	1897.1
67.5°	143.2	144.4	154.7	207.7	396.0	488.0	1761.9	2666.5	2705.5	2246.8	1895.9
70°	124.3	126.1	139.5	162.1	285.7	299.7	896.8	2302.8	2411.9	2210.2	1839.2
72.5°	95.6	98.1	118.2	152.3	209.6	215.7	324.7	1638.8	1803.9	1981.8	1683.9
75°	65.8	68.2	88.3	125.5	173.0	161.4	178.5	754.2	951.6	1329.3	1281.8
77.5°	42.0	42.6	55.4	91.4	149.3	114.5	122.5	246.1	345.4	601.3	605.0
80°	28.0	28.6	34.1	59.1	102.3	106.0	75.5	113.9	124.9	175.5	121.8
82.5°	17.1	17.1	23.2	37.2	62.1	87.7	49.3	59.7	64.0	67.6	31.7
85°	6.7	6.7	14.0	24.4	39.0	40.8	31.1	34.7	36.6	39.6	14.6
87.5°	1.8	1.8	7.9	13.4	17.1	18.9	18.9	17.1	18.3	22.5	7.3
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°	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1	497.1
2.5°	494.7	492.9	490.4	488.0	485.5	483.7	481.9	481.9	480.7	478.8	477.6
5°	493.5	490.4	484.9	480.7	474.0	469.1	465.4	462.4	460.6	456.3	455.7
7.5°	491.6	488.0	480.1	471.5	460.6	452.0	443.5	437.4	431.3	426.5	425.2
10°	488.6	484.3	472.8	460.6	445.3	429.5	409.4	386.2	364.9	352.7	349.1
12.5°	488.6	483.1	467.9	451.4	429.5	390.5	339.3	288.2	248.6	230.9	226.0
15°	491.6	484.3	464.2	441.7	400.9	321.7	238.8	171.2	127.9	114.5	111.5
17.5°	494.7	484.3	458.7	428.3	348.5	233.3	135.9	90.2	76.2	73.1	73.1
20°	495.9	483.1	451.4	403.3	278.4	145.0	81.0	67.6	62.1	60.3	60.3
22.5°	500.8	483.7	445.9	367.4	202.3	85.3	64.0	56.7	51.2	49.3	49.3
25°	513.0	491.0	447.2	321.7	129.8	64.6	54.2	46.9	41.4	39.0	39.0
27.5°	532.5	507.5	453.9	268.7	81.6	55.4	45.7	37.8	33.5	31.1	31.1
30°	554.4	525.8	456.9	207.7	60.9	46.9	37.2	29.9	26.8	25.0	24.4
32.5°	592.8	557.4	454.5	142.6	50.0	39.6	29.9	23.8	21.3	20.7	20.7
35°	654.3	612.9	449.6	89.6	41.4	31.7	23.8	19.5	17.7	17.1	16.4
37.5°	737.8	693.9	435.0	59.1	34.1	25.0	19.5	16.4	14.6	14.0	14.0
40°	839.5	786.5	407.0	45.1	29.2	20.1	16.4	14.0	12.8	12.2	12.2
42.5°	955.9	889.5	362.5	39.0	24.4	17.1	14.0	11.6	11.0	10.4	10.4
45°	1083.2	997.3	301.0	34.7	20.7	14.0	11.6	10.4	9.1	9.1	8.5
47.5°	1218.4	1105.7	231.5	30.5	17.7	12.2	10.4	8.5	7.9	7.3	7.3
50°	1348.8	1202.6	162.7	26.2	14.6	10.4	8.5	7.3	6.7	6.1	6.1
52.5°	1440.8	1261.1	115.1	22.5	12.2	9.1	6.7	5.5	4.9	4.9	4.9
55°	1514.5	1297.6	80.4	18.9	10.4	7.9	5.5	4.3	4.3	3.7	3.7
57.5°	1584.0	1321.4	59.1	15.8	8.5	6.1	4.3	3.0	3.0	2.4	2.4
60°	1655.9	1334.2	45.1	12.8	7.3	4.9	3.0	2.4	1.8	1.8	1.8
62.5°	1728.3	1342.1	34.7	10.4	6.1	3.7	2.4	1.8	1.2	0.6	0.6
65°	1791.7	1344.5	26.8	7.9	4.9	2.4	1.8	0.6	0.0	0.0	0.0
67.5°	1810.6	1316.5	20.7	6.1	3.7	1.8	1.2	0.0	0.0	0.0	0.0
70°	1759.4	1242.2	15.8	4.9	3.0	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	1561.4	1041.8	12.2	3.0	2.4	1.2	0.6	0.0	0.0	0.0	0.0
75°	1117.3	555.6	8.5	2.4	1.8	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	514.2	215.1	6.1	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	100.5	53.6	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.2	9.1	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	3.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.2	0.6	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)