

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: P397741

Luminaire Tested: **ARCH-S-PA1-30-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3735 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

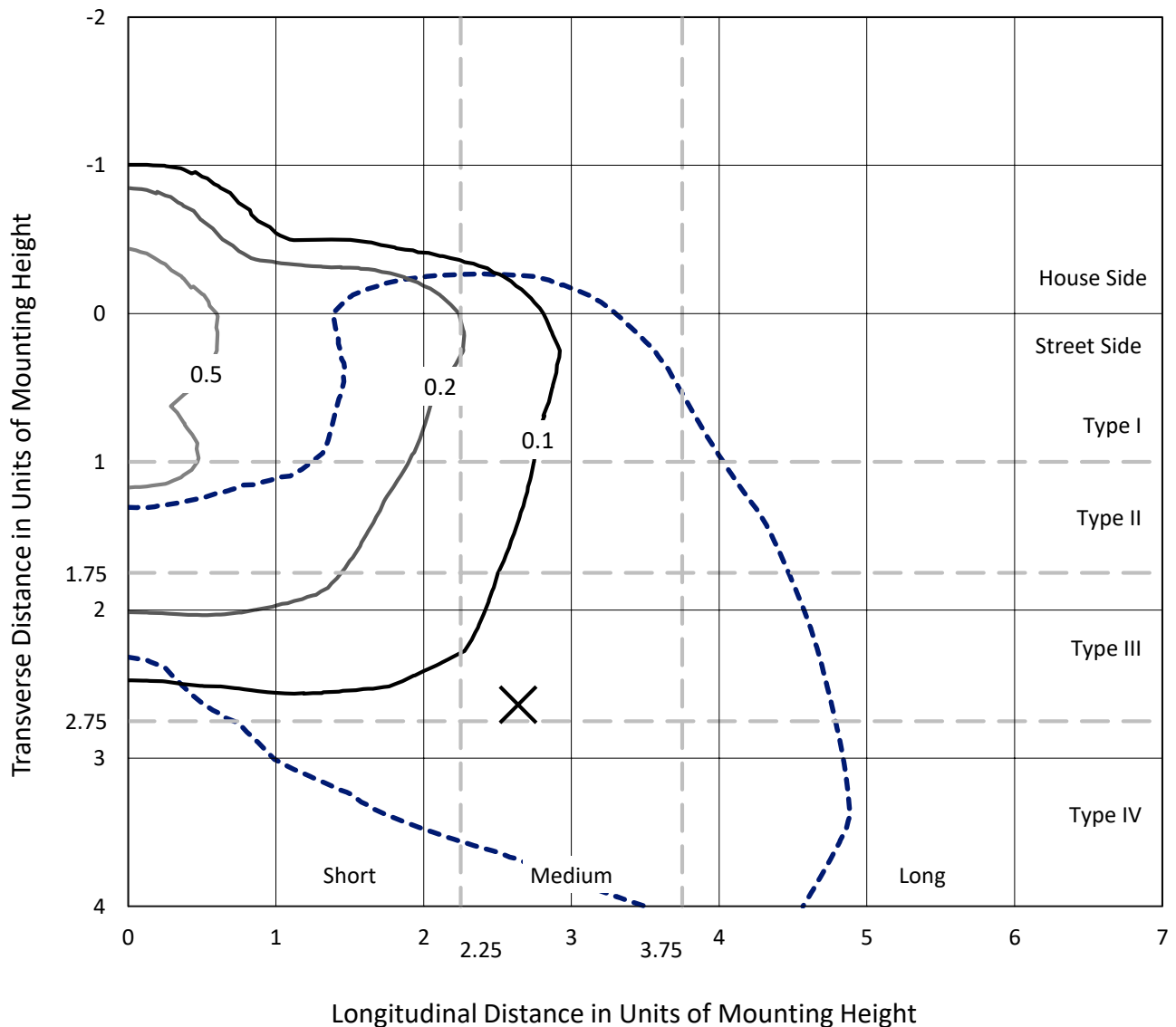


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

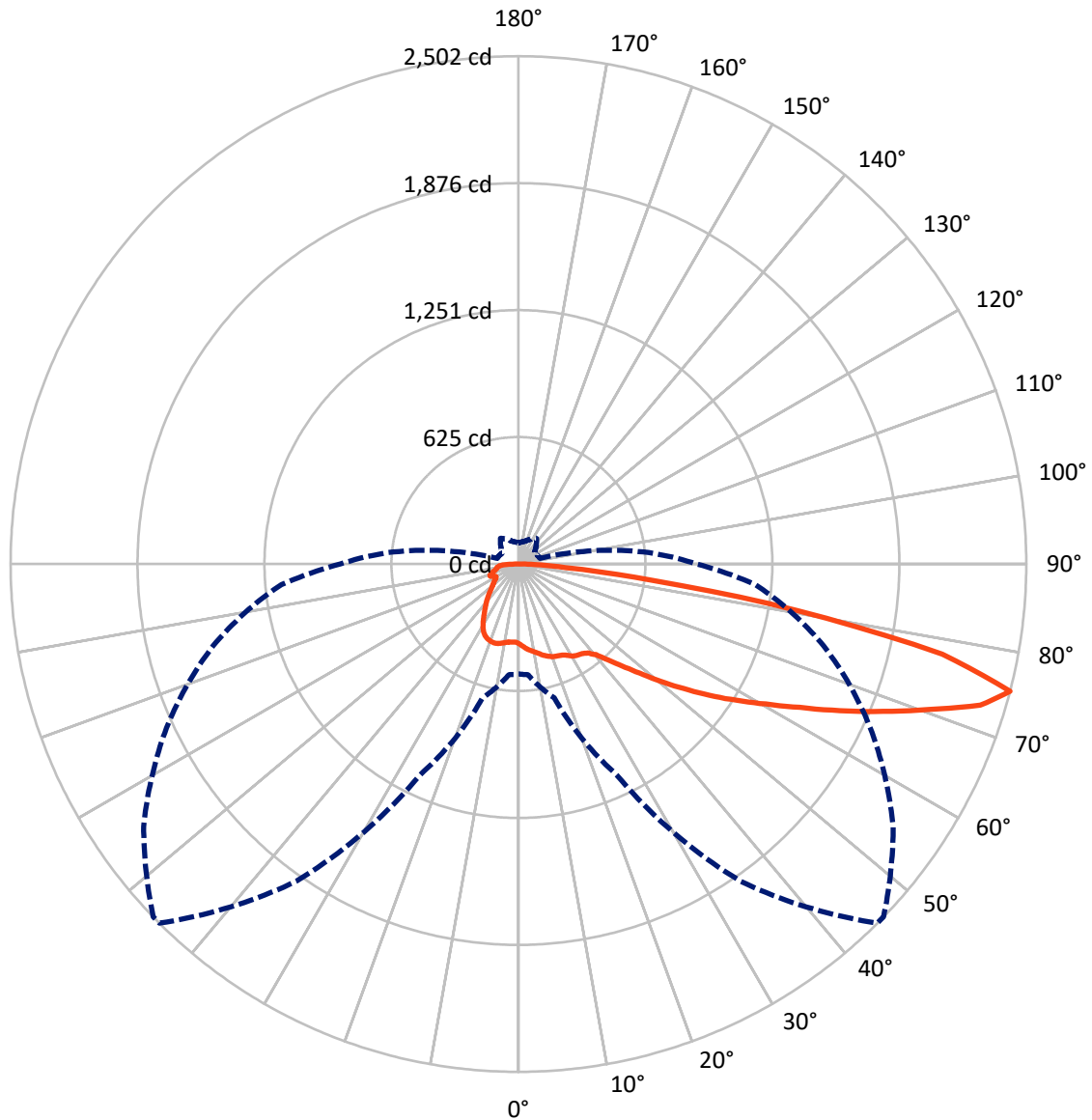


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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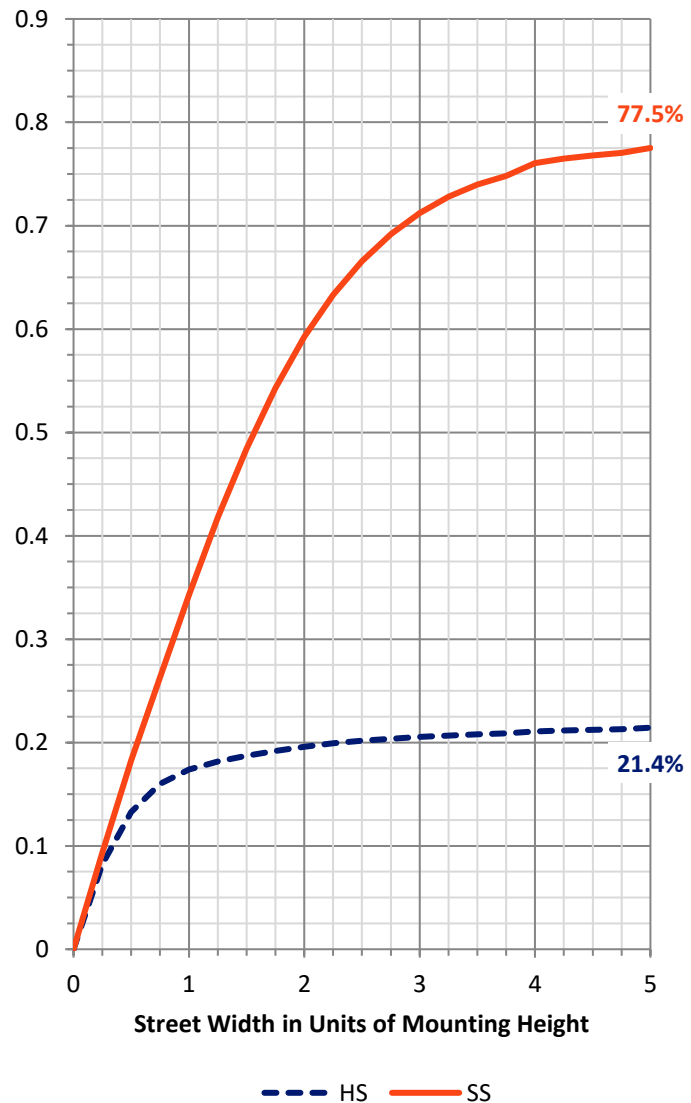
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.4	0.0	825.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	2909.6	0.0	2909.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	3735.0	0.0	3735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	1.0
10°-20°	123.5	3.3
20°-30°	210.5	5.6
30°-40°	294.9	7.9
40°-50°	433.2	11.6
50°-60°	689.5	18.5
60°-70°	980.8	26.3
70°-80°	821.3	22.0
80°-90°	142.5	3.8
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°	3735.0	100.0
0°-180°	3735.0	100.0

Coefficient of Utilization



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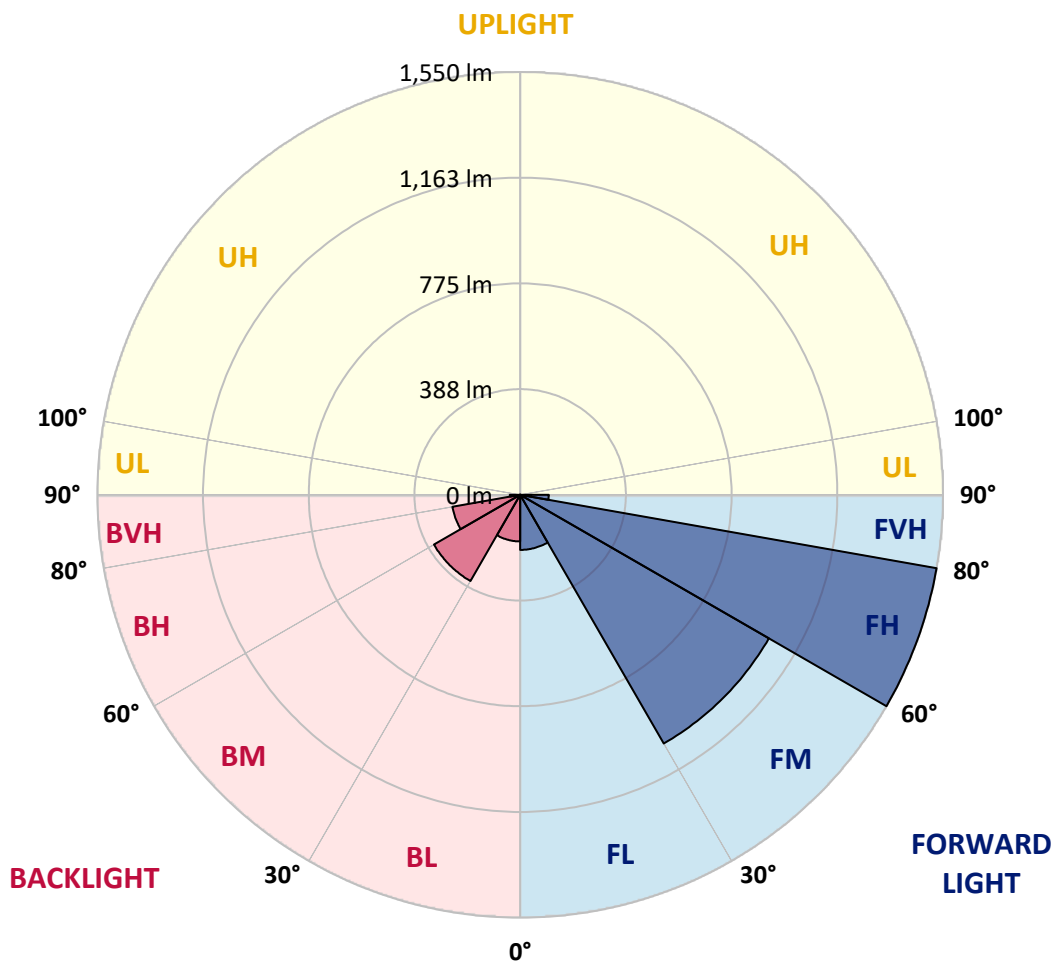
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.9	5.4			
FM (30°-60°)	1052.8	28.2			
FH (60°-80°)	1550.1	41.5			G1/1800
FVH (80°-90°)	104.8	2.8			G2/225
BL (0°-30°)	170.8	4.6	B1/500		
BM (30°-60°)	364.9	9.8	B1/1000		
BH (60°-80°)	252.0	6.7	B1/500		G1/500
BVH (80°-90°)	37.7	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3
2.5°	414.7	412.7	411.7	411.7	407.7	405.2	404.7	401.2	398.2	395.3	392.8
5°	438.7	437.2	434.2	431.7	426.2	419.2	418.2	410.7	403.2	396.2	390.3
7.5°	460.6	457.6	454.1	449.1	440.2	430.7	429.2	418.7	408.2	397.7	389.8
10°	479.1	476.1	471.1	464.1	452.6	441.2	439.7	428.7	417.7	405.2	393.8
12.5°	496.6	494.1	486.6	477.1	463.6	453.1	451.6	442.2	430.7	416.7	401.7
15°	511.5	509.0	501.1	490.1	474.6	466.6	464.6	455.6	444.2	429.2	413.7
17.5°	519.0	519.0	510.5	498.6	484.1	478.1	476.6	465.6	455.1	440.7	425.2
20°	521.5	522.5	516.5	502.0	489.6	487.1	485.6	476.6	464.6	450.6	436.2
22.5°	523.0	525.0	520.0	503.5	493.1	491.6	490.6	484.6	475.1	461.6	447.2
25°	528.0	528.0	524.5	506.0	497.6	497.1	497.1	493.6	487.1	475.6	461.1
27.5°	535.5	535.0	530.5	511.5	507.5	509.0	508.5	508.0	503.5	492.1	476.6
30°	548.0	548.0	543.0	522.5	520.0	526.5	527.0	528.0	521.0	503.0	490.6
32.5°	566.9	564.9	559.9	533.5	529.5	535.5	536.5	536.0	530.0	513.0	507.0
35°	625.3	620.8	602.9	557.9	538.0	541.5	542.0	544.5	545.5	532.0	529.0
37.5°	727.6	721.6	694.2	615.8	564.9	556.4	555.9	562.4	567.9	555.9	555.9
40°	838.9	833.9	818.0	715.6	614.8	586.9	584.9	590.9	597.9	589.4	591.9
42.5°	934.7	938.7	940.2	821.4	689.7	643.8	638.3	629.8	640.8	633.3	643.3
45°	1006.6	1004.6	1032.0	929.7	786.5	715.1	707.7	684.7	698.7	698.2	720.1
47.5°	1082.9	1079.5	1090.9	1031.5	896.8	802.5	791.0	757.1	778.0	792.5	828.9
50°	1155.3	1156.3	1160.3	1111.9	1016.6	908.8	894.3	848.9	878.8	909.3	960.7
52.5°	1249.6	1242.6	1237.7	1205.7	1150.8	1019.6	1010.1	958.2	1000.1	1036.0	1104.4
55°	1332.0	1327.5	1324.5	1323.0	1263.1	1141.8	1131.9	1078.0	1138.3	1163.8	1264.6
57.5°	1419.8	1417.3	1433.3	1458.7	1434.8	1266.1	1255.6	1203.7	1271.1	1289.1	1438.3
60°	1484.2	1485.7	1529.6	1594.5	1578.0	1400.8	1388.4	1342.5	1400.3	1416.3	1611.9
62.5°	1484.7	1499.7	1601.5	1717.7	1736.7	1556.1	1541.6	1491.7	1533.1	1533.1	1767.7
65°	1343.0	1359.9	1588.5	1748.2	1897.4	1740.7	1726.7	1648.4	1663.8	1642.9	1913.9
67.5°	1201.7	1221.7	1436.8	1750.7	2010.2	1938.3	1921.9	1805.1	1778.6	1725.7	2016.2
70°	1107.9	1121.9	1301.5	1718.2	2078.1	2144.9	2132.5	1953.8	1869.0	1795.1	1994.7
72.5°	932.7	927.7	1099.4	1564.0	2116.0	2379.5	2369.0	2115.5	1947.3	1762.2	1701.3
75°	541.5	547.5	682.2	1145.8	1907.4	2501.8	2500.8	2253.7	1912.9	1556.6	1172.3
77.5°	156.2	160.7	224.1	503.5	1206.2	2134.0	2202.3	2061.1	1616.9	1109.4	607.8
80°	68.4	71.9	97.3	167.7	519.5	1393.9	1453.7	1393.9	975.2	509.0	238.5
82.5°	40.4	42.9	63.4	103.8	249.0	663.2	744.1	649.8	420.7	216.1	98.8
85°	23.0	24.0	36.4	65.9	156.7	232.1	260.5	244.0	205.1	122.8	51.9
87.5°	10.5	11.0	18.0	30.9	87.8	78.4	81.3	107.8	118.8	74.9	26.0
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°	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3
2.5°	391.8	390.3	387.3	386.3	384.8	385.3	385.8	385.8	386.3	384.8	384.8
5°	387.8	385.3	382.3	382.3	382.3	386.3	389.8	391.8	392.8	392.8	391.8
7.5°	386.3	383.3	379.8	380.8	381.8	386.8	393.3	399.7	401.7	401.7	400.7
10°	389.3	386.3	383.8	385.3	387.8	391.8	396.7	402.7	407.7	408.2	407.7
12.5°	396.2	392.8	390.3	393.3	396.2	398.7	401.2	403.7	410.2	411.2	411.2
15°	407.7	404.2	401.2	403.7	404.7	404.7	404.7	404.7	411.2	412.2	412.2
17.5°	419.2	416.2	413.2	413.7	410.7	406.7	405.2	404.7	408.2	411.2	411.7
20°	430.2	427.7	424.7	419.7	412.2	404.7	402.2	402.2	404.2	408.7	408.7
22.5°	442.2	439.2	434.2	422.7	410.2	399.7	397.2	398.7	401.2	407.2	406.7
25°	455.6	451.6	443.2	421.7	403.7	391.3	391.8	396.2	400.7	407.2	407.2
27.5°	470.6	465.1	448.2	413.7	389.3	377.3	381.8	392.3	398.7	405.7	406.7
30°	487.1	482.1	452.1	399.7	365.8	354.8	365.8	382.8	392.8	399.2	400.7
32.5°	507.0	503.0	455.6	381.8	335.4	325.9	341.9	362.8	378.8	386.3	387.8
35°	532.0	528.0	460.1	361.3	306.9	296.9	311.4	332.9	353.8	363.3	366.3
37.5°	564.4	558.4	464.1	339.4	283.0	271.5	278.5	297.9	316.9	329.9	333.4
40°	605.9	596.4	467.6	314.4	262.0	249.0	251.5	261.0	272.0	283.5	288.0
42.5°	664.2	645.3	468.1	288.0	240.5	228.6	227.6	230.6	230.6	230.6	232.1
45°	745.6	709.7	469.1	263.0	218.6	206.1	203.1	202.1	194.6	180.2	179.2
47.5°	848.4	794.0	473.6	242.0	195.6	184.7	180.7	176.7	162.7	147.7	144.7
50°	980.1	891.8	482.6	222.1	176.2	168.7	163.7	154.2	138.7	127.3	124.3
52.5°	1131.9	1008.1	491.1	201.1	161.7	156.7	150.7	139.2	122.8	115.8	114.8
55°	1306.0	1137.8	508.0	182.7	149.2	145.7	140.2	129.3	116.8	111.8	111.3
57.5°	1484.2	1283.1	532.0	166.2	137.2	135.2	135.2	125.8	117.8	115.8	115.8
60°	1655.9	1407.8	513.5	150.7	126.3	127.3	136.7	134.2	128.3	130.8	132.2
62.5°	1789.1	1481.2	416.7	138.2	118.3	127.3	151.7	151.7	144.7	143.7	143.7
65°	1846.0	1480.2	292.9	128.8	115.3	139.7	169.2	161.2	142.7	135.7	134.2
67.5°	1831.5	1415.3	202.1	122.3	114.3	152.7	177.2	154.7	133.7	127.8	123.3
70°	1704.3	1278.1	155.7	116.3	112.8	147.2	174.7	147.2	126.8	121.3	117.3
72.5°	1374.9	1025.1	129.3	110.3	106.8	136.2	166.2	140.2	121.3	115.3	111.3
75°	876.8	644.8	109.3	102.3	95.3	122.3	154.7	133.2	115.3	107.3	104.3
77.5°	421.7	278.0	95.3	92.8	85.8	113.3	143.2	124.3	107.3	100.8	98.8
80°	170.7	127.3	82.8	83.3	78.9	107.8	135.2	115.8	99.3	92.3	88.8
82.5°	88.8	73.9	69.9	71.9	71.9	102.8	129.3	108.8	92.3	89.3	77.9
85°	47.9	45.9	53.9	57.9	62.4	92.8	120.3	101.3	84.3	72.4	69.9
87.5°	23.5	29.9	30.4	34.9	43.4	74.4	101.3	84.8	70.4	58.4	57.4
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)