

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: P397811

Luminaire Tested: **ARCH-S-PA1-40-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-40-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4849 lumens
Efficiency: N/A
Efficacy: 121.2 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): 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

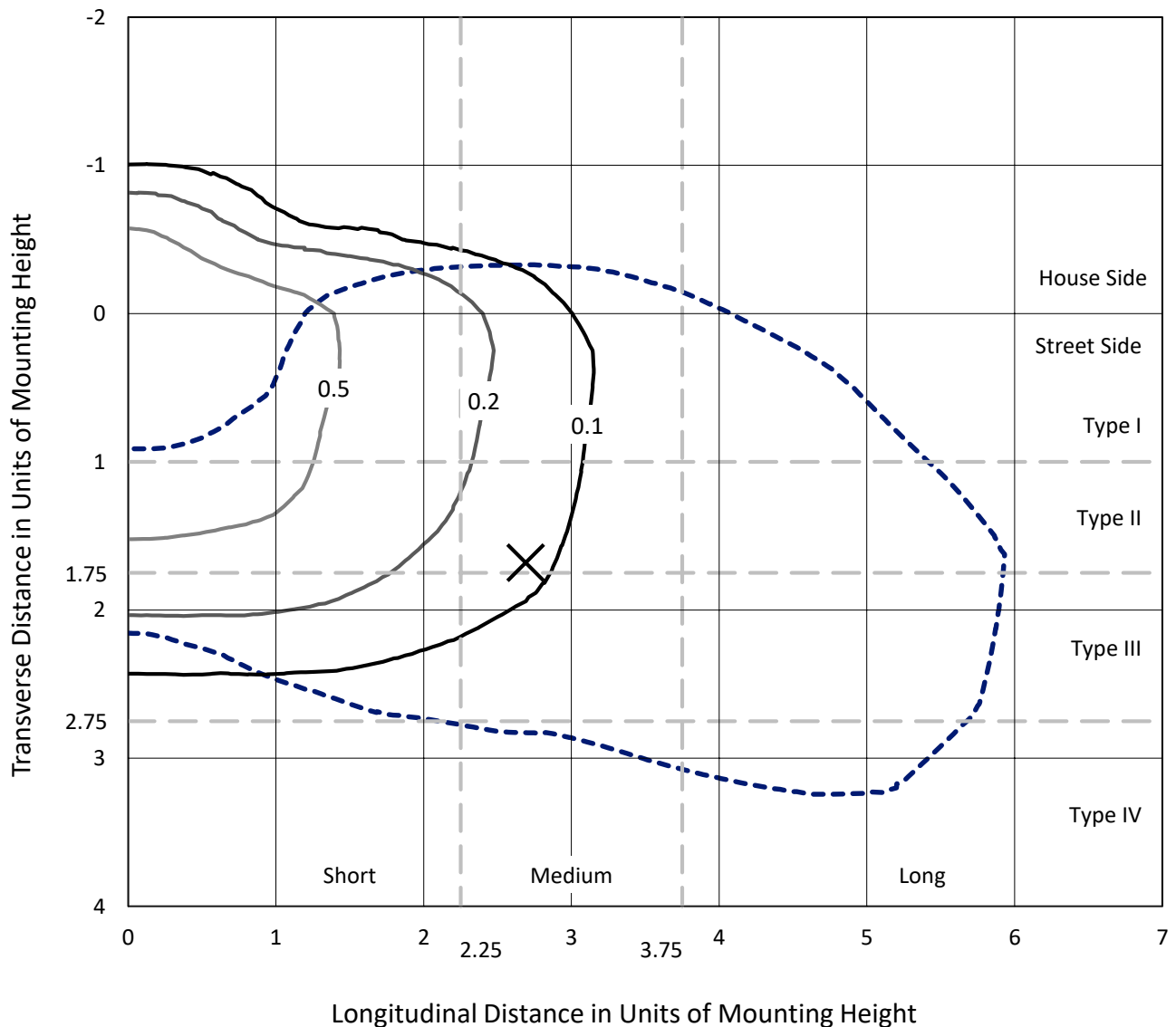


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

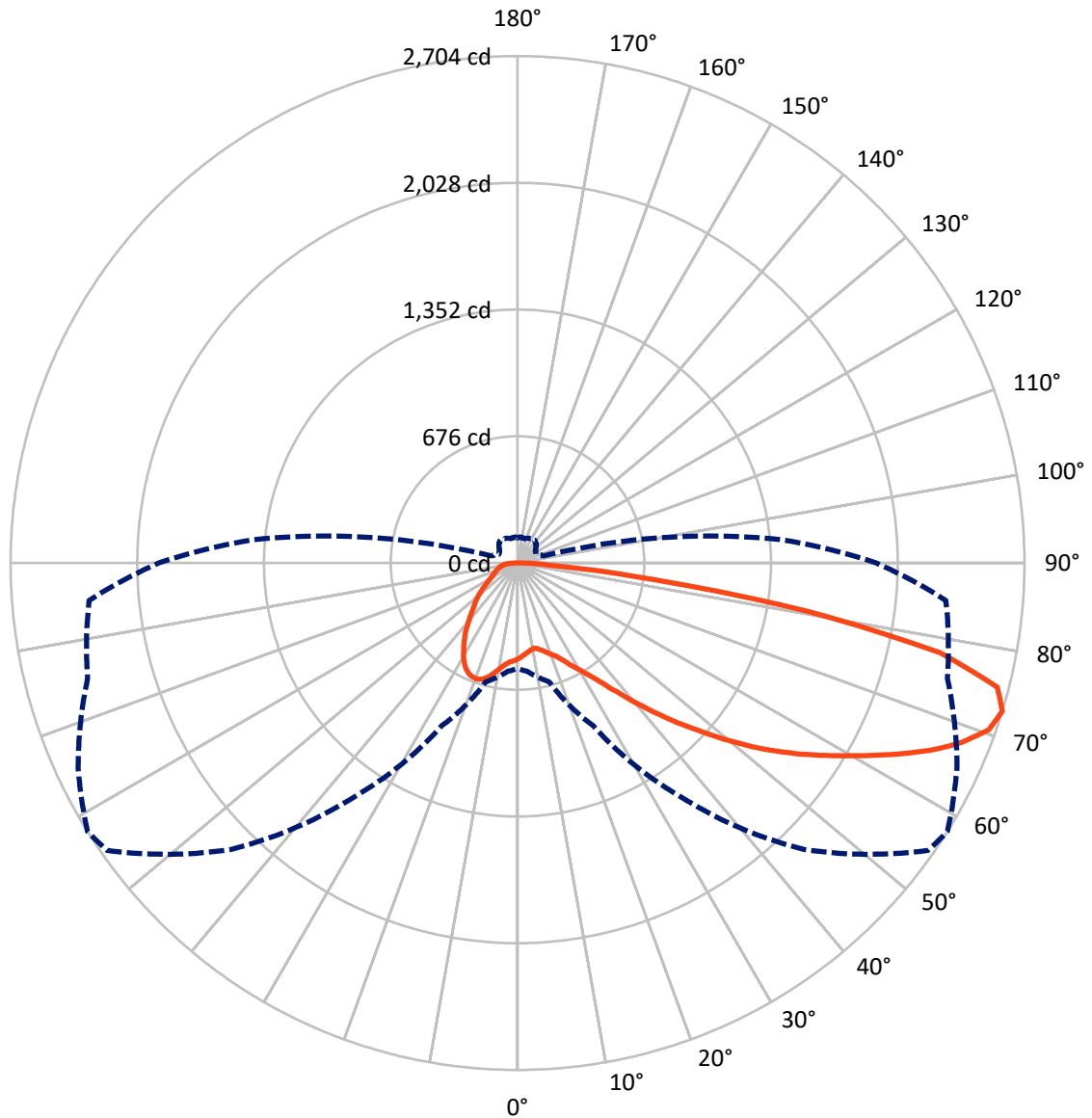


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.7	0.0	1099.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3749.3	0.0	3749.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	4849.0	0.0	4849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.0
10°-20°	156.5	3.2
20°-30°	280.3	5.8
30°-40°	421.6	8.7
40°-50°	682.8	14.1
50°-60°	1027.8	21.2
60°-70°	1209.6	24.9
70°-80°	857.7	17.7
80°-90°	163.4	3.4
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°	4849.0	100.0
0°-180°	4849.0	100.0

Coefficient of Utilization



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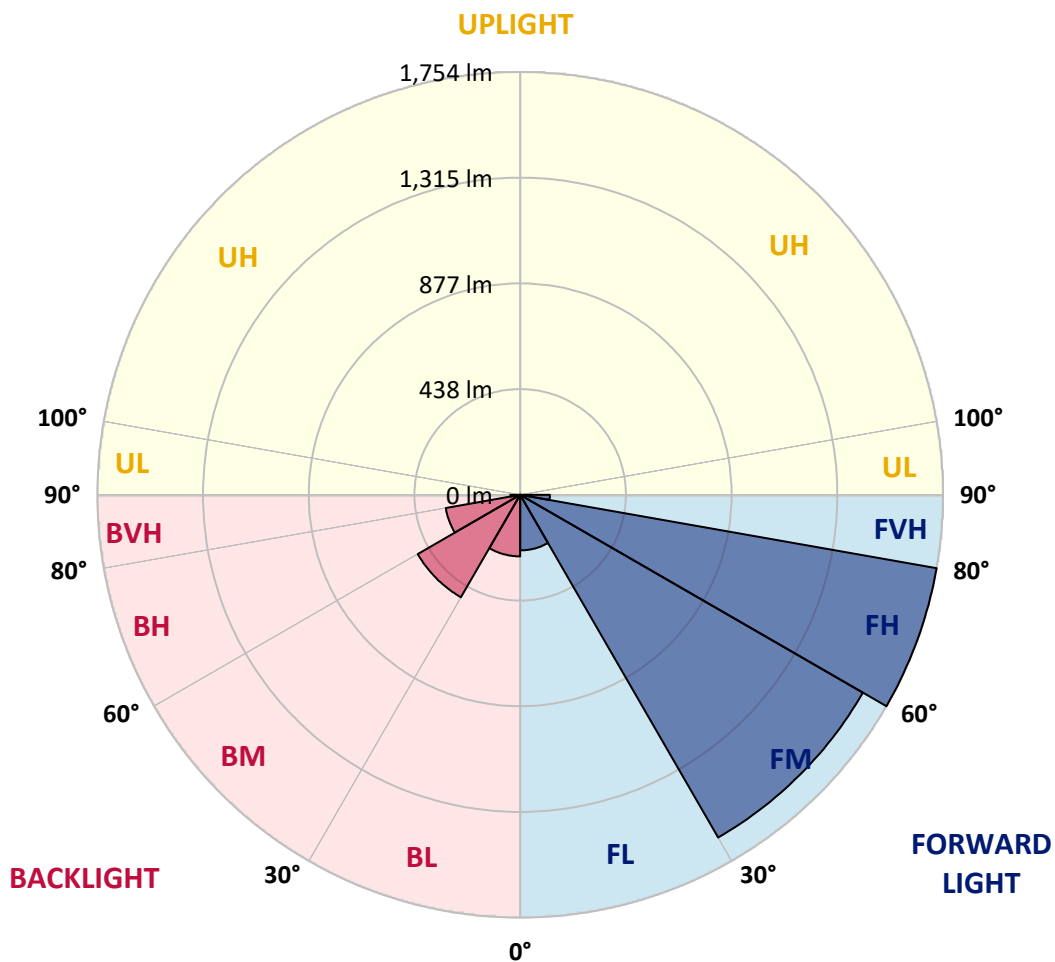
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.6	4.8			
FM	(30°-60°)	1641.5	33.9			
FH	(60°-80°)	1753.9	36.2			G1/1800
FVH	(80°-90°)	123.3	2.5			G2/225
BL	(0°-30°)	255.4	5.3	B1/500		
BM	(30°-60°)	490.7	10.1	B1/1000		
BH	(60°-80°)	313.4	6.5	B1/500		G1/500
BVH	(80°-90°)	40.2	0.8			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°	55°	58°	65°	75°	85°
0°	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5
2.5°	492.3	489.7	490.3	490.3	492.9	494.2	494.8	496.7	498.0	501.2	505.7
5°	469.2	467.3	467.9	468.6	473.1	477.5	481.4	483.9	487.8	492.9	499.3
7.5°	452.6	451.3	451.9	453.2	457.1	462.2	468.6	472.4	478.2	487.8	498.7
10°	440.4	440.4	441.1	443.6	447.5	453.9	459.0	463.5	475.0	492.3	508.9
12.5°	430.8	430.8	432.7	437.9	444.3	450.7	462.8	467.9	483.3	507.0	526.8
15°	430.2	430.8	431.4	435.9	443.0	457.1	475.0	482.7	501.2	529.4	552.4
17.5°	440.4	441.1	438.5	439.8	448.1	467.9	491.6	500.6	524.3	555.0	578.7
20°	471.8	471.8	464.1	457.1	462.8	484.6	511.5	520.4	546.7	580.6	604.3
22.5°	535.8	539.0	521.1	505.7	496.7	508.9	533.2	542.8	572.3	608.8	632.5
25°	613.2	616.4	592.1	570.4	553.7	551.8	567.8	578.0	602.4	640.1	660.0
27.5°	688.1	682.4	660.0	639.5	618.4	601.1	613.2	622.2	650.4	679.2	691.3
30°	747.0	742.6	720.8	706.1	686.2	663.8	656.8	666.4	689.4	716.3	722.7
32.5°	812.3	809.1	787.4	768.2	751.5	730.4	715.0	719.5	732.3	751.5	755.4
35°	895.5	902.6	879.5	840.5	821.9	801.4	790.6	791.8	801.4	813.6	807.2
37.5°	983.2	991.6	992.8	931.4	906.4	887.9	876.3	880.8	892.3	900.7	880.8
40°	1145.8	1137.5	1104.2	1058.8	1020.4	1002.4	986.4	985.8	994.1	1008.8	973.0
42.5°	1361.6	1353.9	1286.7	1227.8	1167.0	1146.5	1115.1	1101.7	1105.5	1124.1	1074.1
45°	1568.3	1565.1	1511.4	1442.9	1369.9	1330.2	1258.5	1225.9	1222.7	1237.4	1177.8
47.5°	1752.0	1738.0	1698.9	1645.8	1638.1	1534.4	1402.5	1358.4	1343.0	1351.3	1284.7
50°	1948.6	1900.6	1846.8	1814.1	1869.8	1773.2	1547.8	1501.8	1464.0	1469.7	1400.6
52.5°	2052.9	1972.3	1937.0	1946.6	2021.5	1984.4	1706.0	1649.6	1588.8	1597.1	1515.8
55°	1963.3	1962.6	1978.0	2037.5	2141.9	2099.0	1856.4	1793.0	1726.4	1728.4	1648.3
57.5°	1840.4	1865.3	1944.7	2076.0	2291.0	2219.3	2004.3	1937.0	1876.2	1866.6	1798.8
60°	1728.4	1755.9	1871.1	2069.6	2342.9	2329.4	2145.1	2086.2	2036.9	2008.7	1956.9
62.5°	1558.1	1578.6	1741.8	2028.6	2299.4	2408.8	2287.8	2247.5	2210.4	2152.1	2127.2
65°	1357.7	1364.8	1537.0	1893.5	2244.9	2439.5	2429.9	2412.0	2376.2	2290.4	2295.5
67.5°	1140.7	1154.8	1305.9	1677.8	2125.9	2425.5	2540.0	2554.8	2512.5	2383.9	2403.1
70°	909.6	926.9	1041.5	1379.5	1923.6	2364.7	2641.8	2665.5	2584.2	2414.6	2422.9
72.5°	562.7	579.3	656.1	958.3	1524.8	2160.4	2673.2	2703.9	2586.1	2373.6	2293.6
75°	194.6	196.5	256.7	459.6	905.1	1631.1	2570.8	2643.1	2504.8	2224.5	1995.9
77.5°	89.0	92.2	113.9	189.5	401.4	880.2	2122.7	2303.8	2257.7	1991.5	1536.3
80°	61.5	62.7	78.7	113.3	231.7	309.8	1339.8	1576.0	1656.7	1542.1	984.5
82.5°	46.1	47.4	60.8	76.8	167.1	150.4	510.2	732.3	910.3	893.6	411.6
85°	44.2	43.5	47.4	51.2	111.4	89.6	165.2	226.6	355.3	304.1	103.7
87.5°	19.2	21.1	48.7	28.8	58.3	41.6	71.7	83.9	108.2	94.1	37.1
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°	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5
2.5°	507.6	508.9	512.7	518.5	521.7	528.1	532.6	535.2	537.1	537.7	537.7
5°	503.1	505.7	514.0	523.6	532.6	546.0	558.2	565.2	570.4	572.3	572.9
7.5°	504.4	510.8	523.0	537.1	548.6	565.9	580.6	594.7	606.2	610.7	610.7
10°	516.6	525.5	542.2	560.8	575.5	593.4	608.8	620.9	634.4	642.1	643.3
12.5°	535.2	546.0	567.8	588.3	604.9	619.0	633.1	642.1	648.5	654.2	655.5
15°	561.4	574.8	596.6	617.7	632.5	641.4	645.3	645.3	644.6	645.3	646.5
17.5°	587.6	600.4	622.2	643.3	650.4	645.3	640.8	639.5	638.9	637.6	638.2
20°	613.2	625.4	644.0	660.0	654.2	636.3	630.5	629.9	628.0	626.7	625.4
22.5°	638.9	647.8	663.2	668.9	645.9	620.3	613.2	609.4	606.8	603.6	600.4
25°	668.3	670.9	682.4	673.4	625.4	590.8	580.6	574.8	572.3	569.1	566.5
27.5°	695.8	695.8	697.7	666.4	595.3	551.8	536.4	526.2	525.5	524.9	524.3
30°	720.8	717.6	711.2	645.3	556.3	503.8	480.7	470.5	474.3	477.5	478.2
32.5°	750.2	743.8	725.9	616.4	509.5	450.0	421.8	417.4	421.8	425.7	423.1
35°	796.3	784.8	741.3	583.2	464.7	400.7	373.8	367.4	366.2	365.5	360.4
37.5°	862.3	842.4	753.4	547.3	420.6	357.2	337.4	323.9	311.7	298.9	297.0
40°	942.9	909.0	761.8	506.3	373.8	320.7	299.6	282.3	261.8	239.4	236.8
42.5°	1031.3	980.7	765.6	460.9	332.9	290.6	264.4	242.6	219.6	202.3	199.1
45°	1126.6	1058.1	762.4	417.4	299.6	265.0	235.6	211.9	193.3	181.2	178.6
47.5°	1219.5	1147.1	753.4	382.8	274.0	243.3	213.2	191.4	177.3	163.9	160.7
50°	1338.5	1232.3	742.6	355.9	245.8	221.5	199.1	176.0	160.0	153.6	152.4
52.5°	1470.4	1317.4	729.8	322.0	218.3	204.2	190.1	169.6	164.5	152.4	150.4
55°	1613.1	1418.5	727.2	279.1	194.0	192.0	181.2	175.4	176.7	152.4	149.2
57.5°	1763.6	1526.7	733.0	236.2	174.1	181.2	185.0	180.5	178.6	155.6	149.2
60°	1920.4	1631.1	715.7	196.5	158.8	172.2	189.5	178.0	163.9	154.3	149.8
62.5°	2072.8	1718.8	640.8	168.4	147.2	169.6	186.9	168.4	152.4	152.4	150.4
65°	2183.5	1757.8	501.2	147.9	139.5	166.4	182.4	162.0	149.2	153.6	151.1
67.5°	2196.3	1717.5	336.7	131.9	133.1	160.7	172.2	156.2	146.0	157.5	153.6
70°	2117.6	1612.5	206.1	119.7	124.8	150.4	163.2	150.4	141.5	154.3	148.5
72.5°	1913.4	1416.6	145.3	109.5	115.9	140.8	154.9	145.3	135.1	139.5	133.8
75°	1569.6	1097.8	115.2	99.9	106.9	131.9	147.9	137.6	127.4	125.5	121.6
77.5°	1111.9	703.5	92.8	92.2	97.3	121.0	138.3	128.7	118.4	114.6	112.0
80°	639.5	345.0	80.0	83.2	88.3	110.1	126.7	118.4	108.8	103.1	99.2
82.5°	244.5	120.3	70.4	72.3	78.1	98.6	115.2	108.2	98.6	103.7	87.1
85°	79.4	65.9	57.6	59.5	65.3	81.9	101.8	96.0	85.1	75.5	69.8
87.5°	35.2	35.8	30.7	33.9	41.0	54.4	74.3	70.4	62.1	51.9	49.9
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)