

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: P348928

Luminaire Tested: **ARCH-N-PA1-30-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3993 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

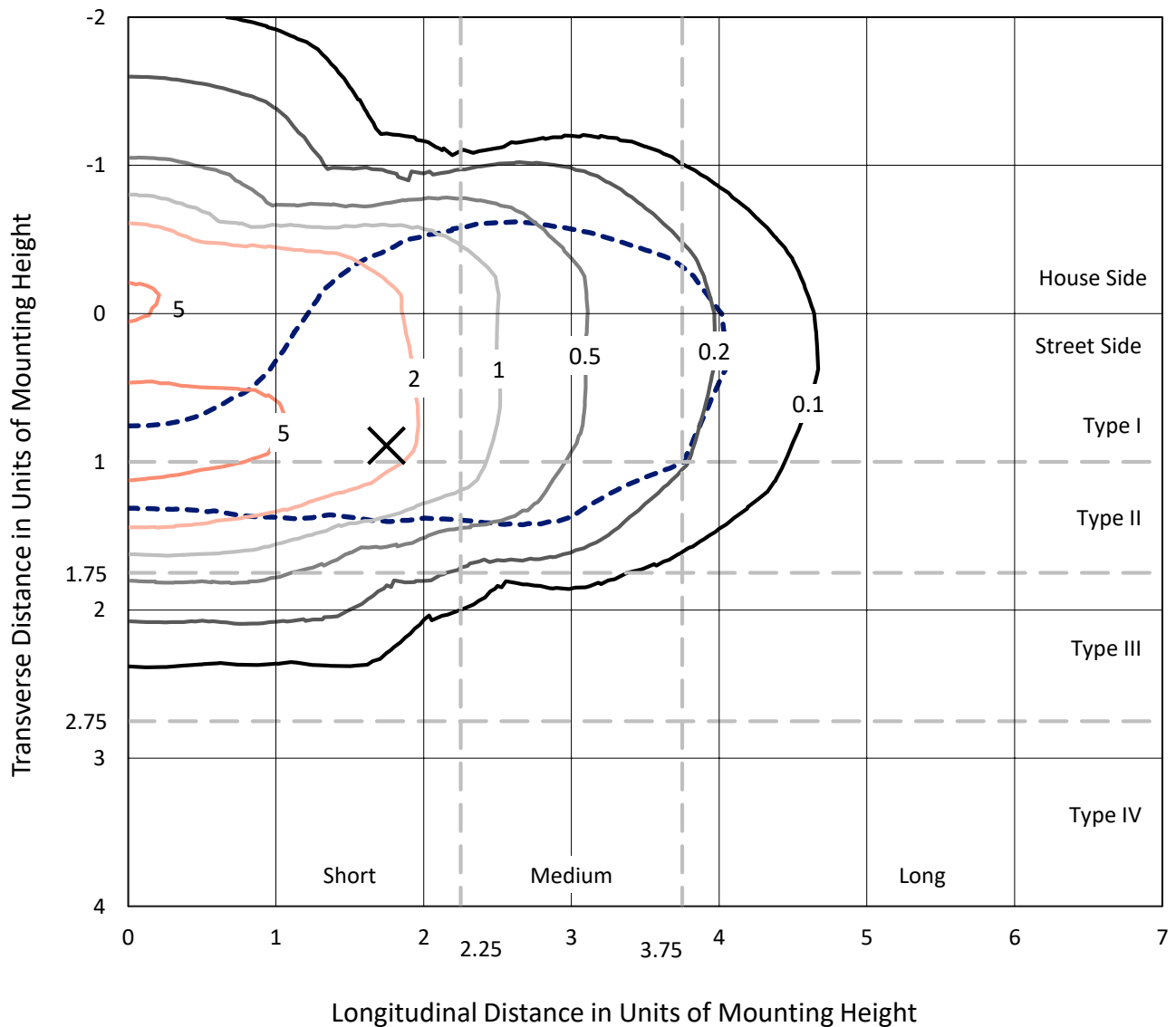
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

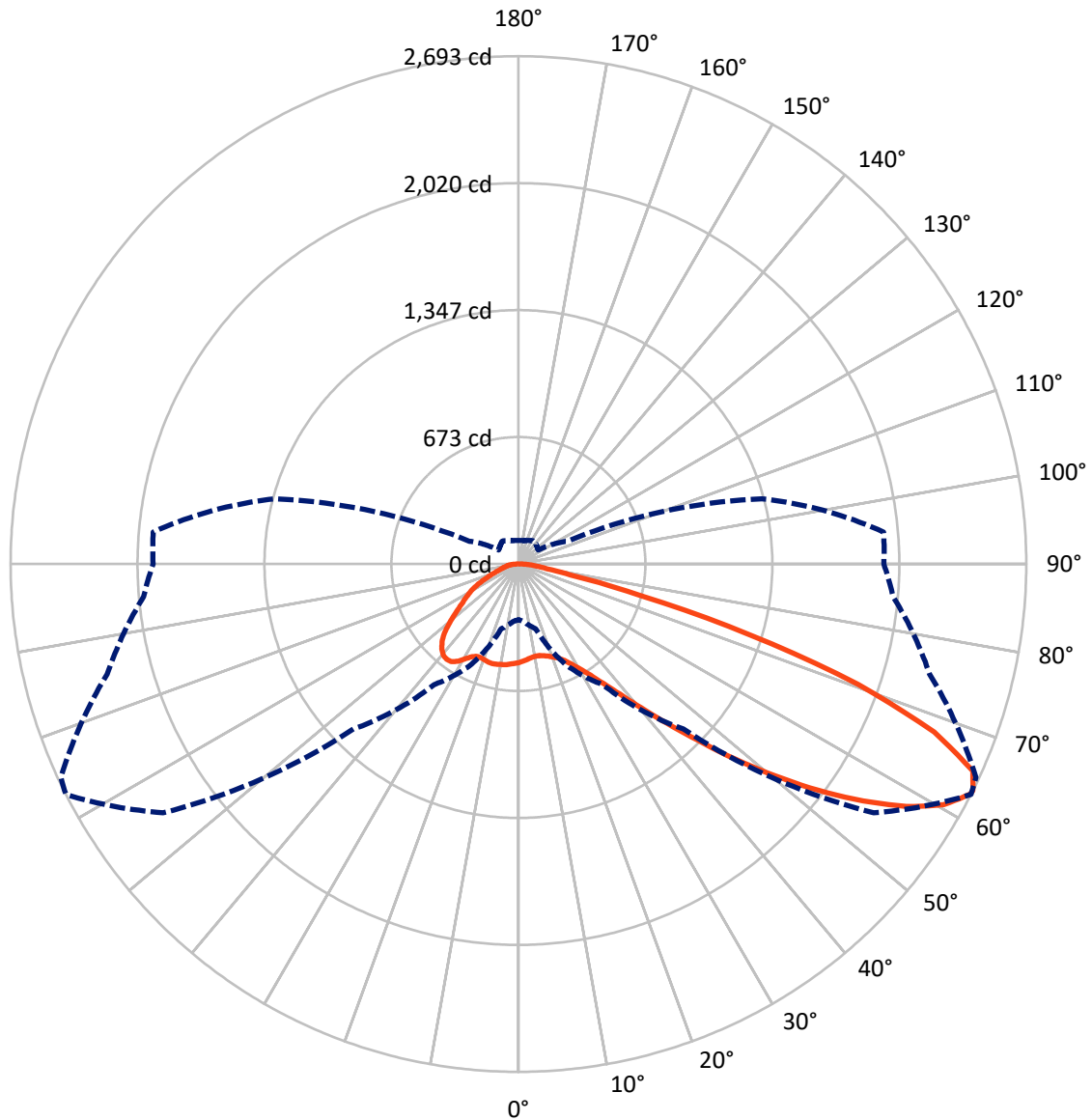
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.0	0.0	1140.0
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2853.0	0.0	2853.0
	% Fixture	71.5	0.0	71.5
Total	Lumens	3993.0	0.0	3993.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.2
10°-20°	146.4	3.7
20°-30°	257.0	6.4
30°-40°	433.3	10.9
40°-50°	759.0	19.0
50°-60°	981.0	24.6
60°-70°	849.1	21.3
70°-80°	440.8	11.0
80°-90°	76.8	1.9
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°	3993.0	100.0
0°-180°	3993.0	100.0



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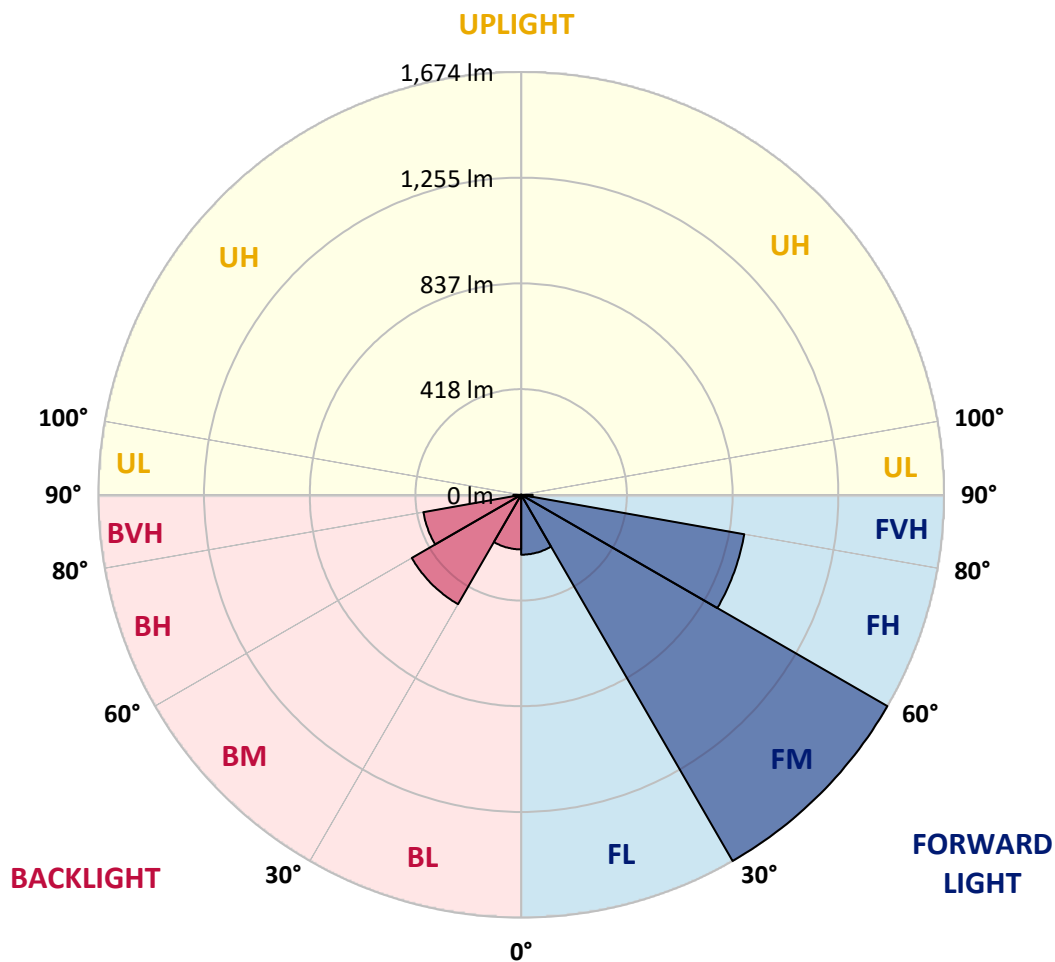
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.1	5.9			
FM	(30°-60°)	1673.5	41.9			
FH	(60°-80°)	896.7	22.5			G1/1800
FVH	(80°-90°)	45.7	1.1			G1/100
BL	(0°-30°)	215.9	5.4	B1/500		
BM	(30°-60°)	499.7	12.5	B1/1000		
BH	(60°-80°)	393.2	9.8	B1/500		G1/500
BVH	(80°-90°)	31.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8
2.5°	510.5	509.0	511.6	512.7	512.3	514.6	514.6	515.0	515.0	516.8	518.7
5°	495.5	494.8	497.4	499.3	500.8	504.1	506.4	507.5	508.6	511.2	515.7
7.5°	481.3	480.2	483.9	485.4	487.7	492.5	497.8	500.8	502.2	507.9	514.2
10°	469.7	469.4	472.4	473.8	476.5	483.6	491.0	497.4	498.5	506.0	512.0
12.5°	464.1	463.4	466.7	468.6	473.1	481.7	490.3	498.1	500.0	508.6	513.8
15°	468.6	469.4	472.4	472.7	478.0	486.9	496.6	504.5	506.4	515.0	518.7
17.5°	489.9	489.5	491.4	490.7	492.5	497.0	507.5	513.8	516.1	522.4	525.4
20°	528.4	527.3	528.8	523.9	515.7	513.5	519.8	526.9	527.7	531.4	529.5
22.5°	587.1	588.2	584.8	572.5	552.7	543.4	539.2	541.5	544.1	543.7	538.1
25°	663.7	667.4	661.1	639.4	606.1	584.5	569.5	566.1	568.0	562.8	554.2
27.5°	764.2	767.2	753.4	719.7	674.9	642.8	612.9	601.3	601.3	590.1	574.4
30°	874.8	876.7	854.6	812.0	760.1	712.3	668.2	645.7	643.9	621.8	597.2
32.5°	1009.4	1004.1	978.0	925.3	859.9	794.1	737.3	703.3	699.6	666.3	634.9
35°	1183.1	1183.1	1128.9	1068.8	989.2	905.5	830.7	778.0	774.3	736.6	695.8
37.5°	1371.8	1371.1	1322.1	1239.2	1143.9	1041.5	941.7	875.9	867.3	827.0	781.4
40°	1559.8	1553.5	1513.8	1435.0	1333.3	1216.4	1078.9	1002.3	998.1	940.6	883.4
42.5°	1697.3	1691.3	1672.7	1620.0	1553.1	1468.6	1257.1	1153.6	1147.6	1075.1	1005.2
45°	1773.2	1764.6	1762.0	1762.7	1770.2	1769.8	1477.2	1332.6	1311.7	1227.6	1134.5
47.5°	1756.0	1735.8	1762.7	1831.9	1948.1	2024.3	1733.6	1545.2	1506.4	1386.0	1272.4
50°	1617.4	1607.6	1665.2	1806.1	2044.9	2223.9	2015.7	1766.1	1711.2	1535.9	1402.9
52.5°	1374.1	1392.8	1463.8	1664.1	2027.3	2344.6	2272.1	1995.5	1919.3	1678.6	1516.1
55°	1093.8	1117.4	1217.5	1429.8	1864.7	2346.1	2457.1	2217.9	2149.9	1826.3	1631.9
57.5°	796.0	829.2	954.4	1149.1	1579.6	2185.7	2548.2	2426.0	2348.3	1971.6	1745.2
60°	500.0	523.5	659.9	885.7	1207.4	1831.9	2525.4	2592.7	2528.4	2108.8	1874.5
62.5°	322.1	333.3	392.4	632.3	841.9	1343.4	2356.9	2688.4	2660.7	2234.0	1972.0
63°	295.2	304.9	355.4	584.5	780.7	1237.7	2300.1	2693.2	2676.8	2257.5	1994.8
65°	211.1	221.6	247.8	401.7	576.2	830.4	1970.9	2648.0	2666.3	2296.7	2025.8
67.5°	166.7	170.0	182.0	244.0	408.8	471.6	1326.2	2377.8	2458.2	2254.9	1979.8
70°	149.1	151.7	165.2	187.2	309.4	305.7	691.7	1911.8	2078.1	2112.1	1864.0
72.5°	130.0	131.9	148.4	176.4	236.2	233.6	300.8	1285.5	1487.7	1850.5	1703.7
75°	107.6	109.5	123.3	156.6	199.9	184.6	188.3	671.9	852.8	1450.7	1494.0
77.5°	88.6	89.7	101.3	125.9	176.0	142.4	145.7	282.5	414.4	988.8	1179.8
80°	64.3	64.6	75.5	95.7	134.5	128.6	108.4	154.0	188.0	541.9	742.2
82.5°	44.8	45.2	56.4	66.9	92.7	128.2	78.8	103.1	112.9	249.6	330.3
85°	31.4	30.6	38.5	44.1	58.7	77.7	60.2	66.1	69.9	108.0	88.9
87.5°	13.8	13.5	21.7	23.5	29.5	35.9	47.8	34.8	37.0	52.3	28.0
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°	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8	522.8
2.5°	519.1	520.6	522.8	526.2	528.8	529.9	532.1	532.5	535.9	532.9	533.3
5°	518.3	520.2	525.0	531.0	535.1	538.1	543.7	545.6	549.0	547.5	547.1
7.5°	517.2	520.6	527.7	536.3	542.6	547.5	552.7	556.1	559.4	558.7	557.9
10°	515.7	519.8	529.9	538.5	547.5	552.7	556.4	556.8	557.9	557.2	555.3
12.5°	516.8	521.3	532.9	541.5	550.8	554.6	553.4	547.8	543.0	538.9	538.1
15°	520.6	525.8	536.6	544.5	551.9	549.7	543.0	530.6	521.7	516.4	516.8
17.5°	524.3	528.8	537.0	543.4	547.1	540.4	529.9	519.4	515.3	511.2	510.5
20°	527.7	528.4	533.6	539.2	538.9	533.6	523.9	511.2	503.0	496.3	496.6
22.5°	532.9	529.9	530.3	533.6	537.7	532.9	510.1	488.0	475.7	467.9	467.5
25°	544.8	538.5	532.5	534.4	550.1	519.1	480.6	451.8	441.0	433.9	434.6
27.5°	561.3	552.7	540.7	550.8	559.4	491.8	438.3	408.8	401.3	393.9	395.7
30°	579.2	566.9	552.3	586.3	549.0	448.4	386.0	359.1	352.4	345.3	346.8
32.5°	611.4	593.1	574.0	628.9	524.7	395.7	331.1	306.8	302.3	297.8	298.2
35°	664.8	643.1	622.6	661.4	493.3	340.8	281.8	264.6	260.8	255.6	255.6
37.5°	743.7	709.6	698.8	678.6	450.3	289.6	245.5	233.9	226.1	219.0	219.0
40°	835.2	794.9	786.3	683.9	394.2	247.0	220.1	210.0	199.6	189.1	189.8
42.5°	946.6	892.0	872.2	676.8	326.2	219.7	202.2	190.6	180.5	171.5	170.0
45°	1072.1	1003.0	952.9	656.2	264.6	202.9	190.6	176.8	164.1	156.2	154.7
47.5°	1200.3	1123.3	1024.3	615.1	221.2	191.0	182.7	163.3	154.3	149.1	148.4
50°	1322.9	1242.5	1083.3	550.5	196.2	182.4	171.2	157.0	149.5	145.0	144.6
52.5°	1431.6	1355.8	1133.0	483.6	179.4	175.3	165.9	154.0	146.1	142.0	141.3
55°	1535.1	1470.5	1182.4	423.8	164.8	163.3	163.3	151.0	142.4	138.6	137.9
57.5°	1648.7	1600.9	1232.1	380.0	151.7	154.7	159.9	147.6	138.3	134.9	134.5
60°	1779.9	1751.9	1284.4	341.6	140.1	145.4	155.1	143.1	133.4	130.8	130.0
62.5°	1914.1	1914.8	1329.6	295.2	130.4	138.3	149.5	139.0	128.9	127.1	126.7
63°	1937.6	1944.3	1336.0	285.1	128.2	136.8	148.0	137.5	127.8	125.9	125.6
65°	1995.5	2025.1	1341.2	242.5	120.0	131.2	142.4	132.7	122.9	122.6	121.8
67.5°	1981.7	2029.9	1308.7	190.2	110.6	123.3	134.5	125.6	117.0	117.0	115.5
70°	1878.6	1910.0	1208.9	146.9	103.5	115.1	125.2	118.1	109.1	109.9	106.9
72.5°	1720.5	1686.1	994.4	114.7	94.9	105.8	114.4	108.4	100.5	99.8	96.4
75°	1488.8	1375.6	712.3	92.7	84.5	93.4	102.4	97.9	90.8	86.7	86.0
77.5°	1134.5	976.5	426.8	78.5	75.5	83.0	88.6	85.2	79.6	74.7	75.1
80°	675.6	563.2	192.5	66.5	65.4	71.0	75.5	72.9	69.1	63.2	61.7
82.5°	273.5	217.9	86.3	53.8	55.3	59.4	63.5	61.3	58.3	56.8	48.2
85°	71.0	68.4	50.4	40.4	42.6	44.5	50.1	50.1	47.5	38.9	35.9
87.5°	20.2	26.9	28.0	25.4	28.8	29.1	34.8	34.8	35.5	23.9	21.7
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)