

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: P397692

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4316 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

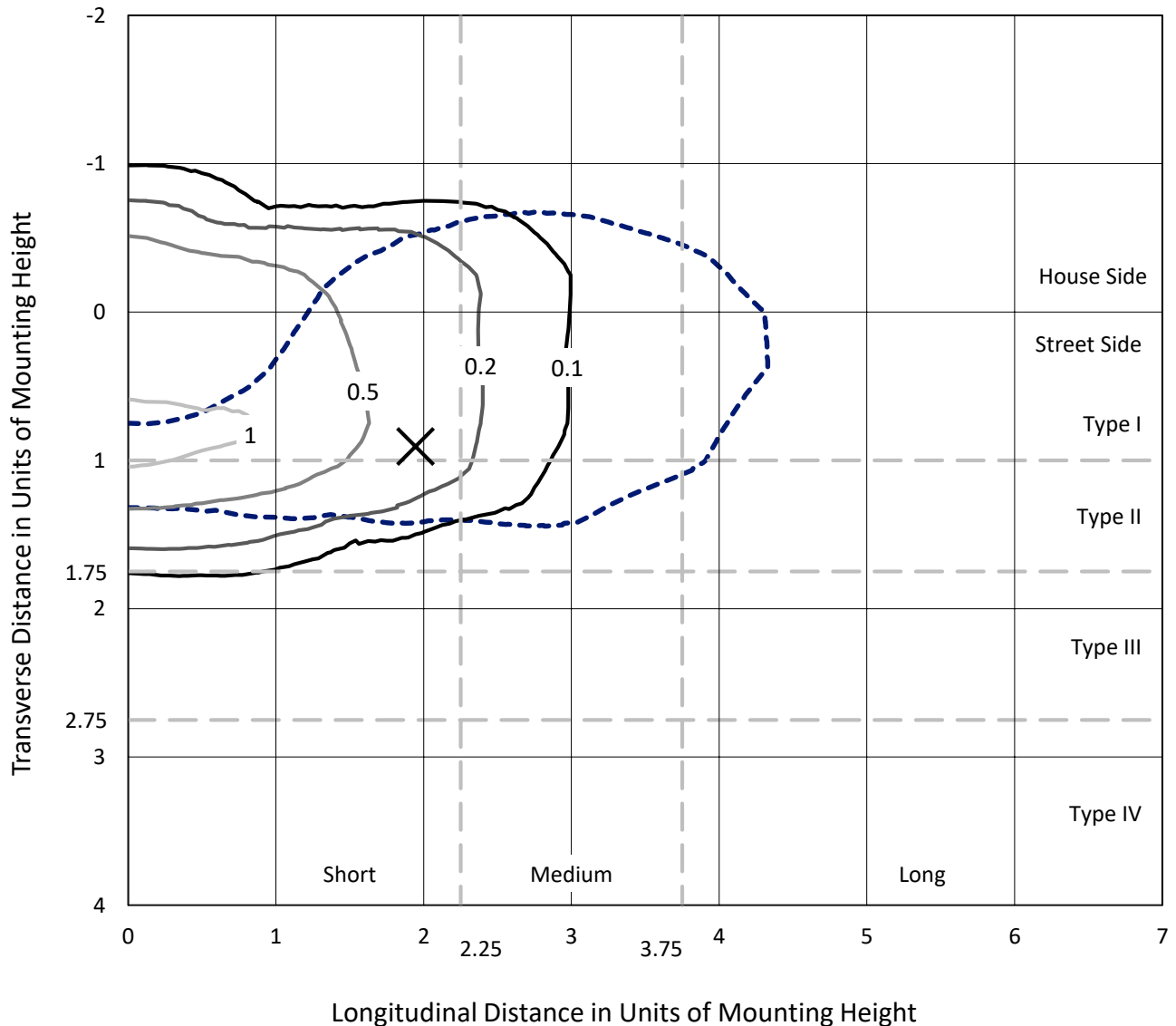
Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

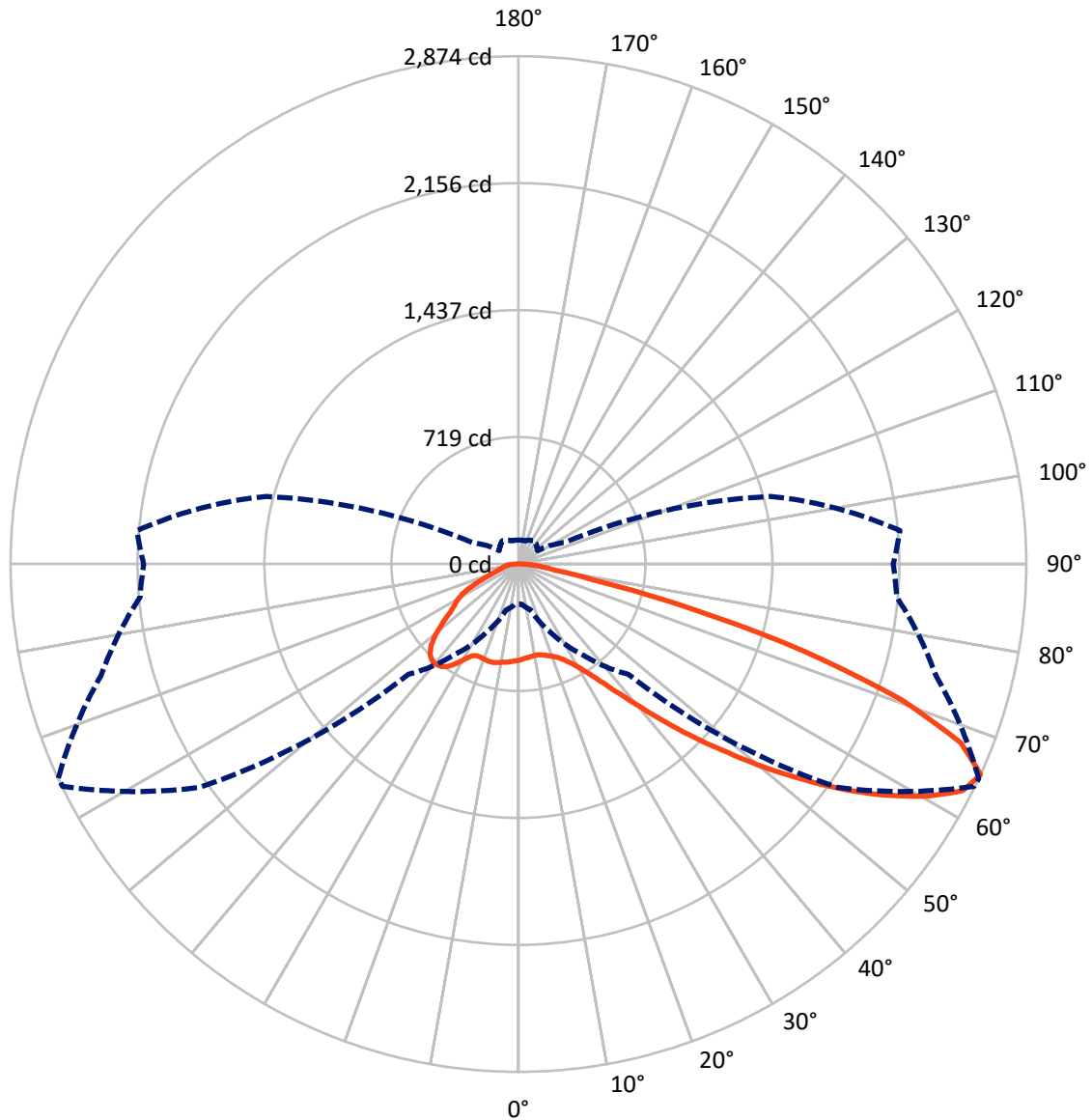
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1247.8	0.0	1247.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	3068.2	0.0	3068.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	4316.0	0.0	4316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.2
10°-20°	155.1	3.6
20°-30°	275.5	6.4
30°-40°	466.2	10.8
40°-50°	811.5	18.8
50°-60°	1048.7	24.3
60°-70°	917.7	21.3
70°-80°	499.1	11.6
80°-90°	90.2	2.1
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°	4316.0	100.0
0°-180°	4316.0	100.0



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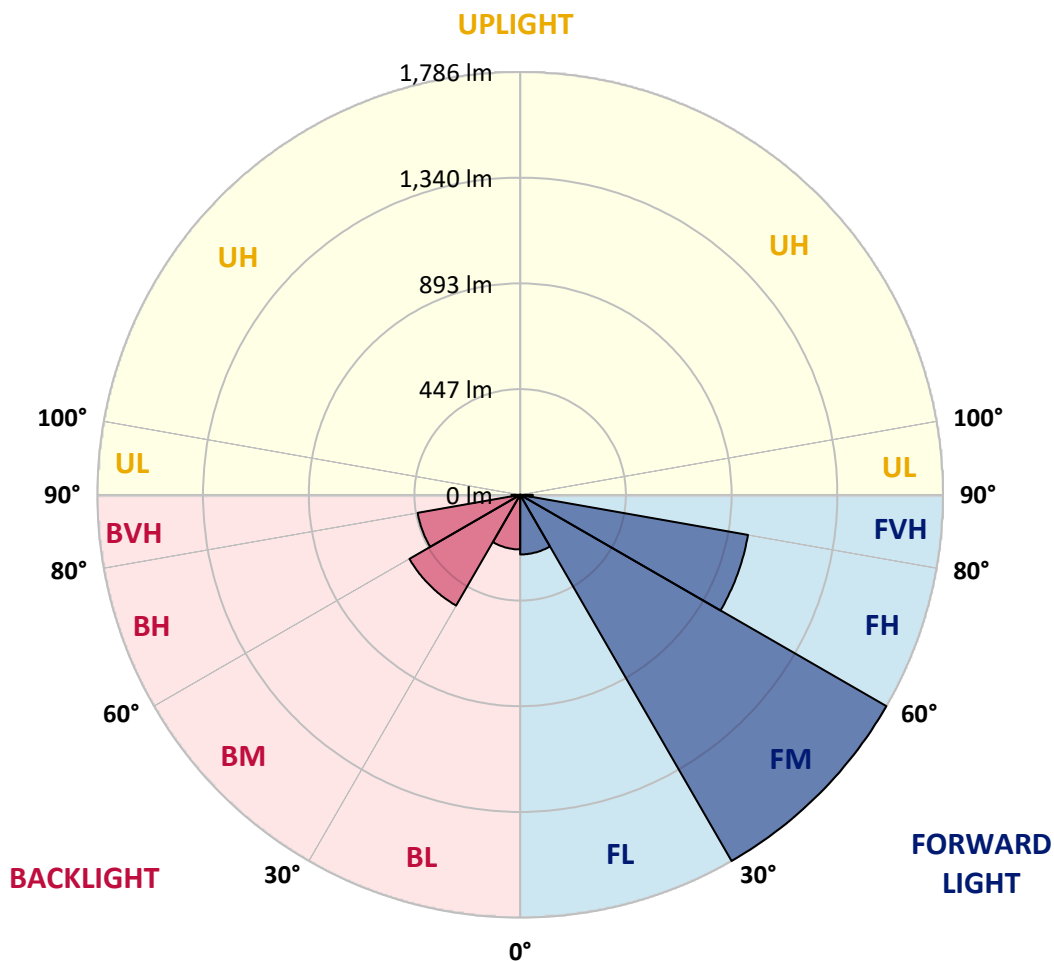
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.8	5.8			
FM	(30°-60°)	1786.1	41.4			
FH	(60°-80°)	977.2	22.6			G1/1800
FVH	(80°-90°)	53.1	1.2			G1/100
BL	(0°-30°)	230.8	5.3	B1/500		
BM	(30°-60°)	540.3	12.5	B1/1000		
BH	(60°-80°)	439.6	10.2	B1/500		G1/500
BVH	(80°-90°)	37.1	0.9			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°	64°	65°	75°	85°
0°	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4
2.5°	535.7	535.1	534.0	535.1	535.7	536.8	536.3	537.4	536.8	538.6	541.4
5°	522.1	520.9	520.4	523.2	524.9	527.8	528.9	532.9	532.3	535.1	539.7
7.5°	506.7	506.7	506.2	509.6	511.9	517.0	520.9	527.8	528.3	533.4	538.6
10°	494.8	495.4	494.8	497.6	501.1	507.3	514.1	523.8	524.3	531.7	536.8
12.5°	490.3	490.3	490.3	494.2	498.8	507.3	515.3	525.5	526.6	534.6	539.1
15°	496.5	497.1	495.9	499.9	505.0	515.3	522.6	533.4	534.6	542.0	544.8
17.5°	518.7	520.9	518.1	520.4	519.2	527.2	534.0	544.8	545.4	551.6	552.8
20°	562.4	564.7	560.1	557.3	547.1	546.5	549.3	557.9	557.9	561.8	559.0
22.5°	630.0	632.3	624.3	613.5	589.1	577.2	570.9	574.9	574.3	576.0	568.7
25°	719.8	719.2	709.5	689.7	650.5	621.5	606.2	599.9	599.9	596.5	587.4
27.5°	831.1	822.6	805.6	781.7	727.2	686.8	653.9	638.0	635.1	624.9	607.9
30°	949.8	943.6	919.2	884.5	821.5	769.8	715.2	683.4	681.7	659.6	634.0
32.5°	1089.6	1079.4	1052.1	1010.6	935.1	862.4	794.2	745.9	743.1	707.8	672.6
35°	1269.1	1260.6	1207.8	1166.3	1069.1	973.7	893.0	828.8	826.6	783.4	738.5
37.5°	1484.4	1462.3	1411.1	1333.3	1231.1	1118.0	1015.7	935.1	932.2	884.5	827.7
40°	1676.4	1656.6	1611.1	1539.5	1429.9	1304.3	1165.7	1068.0	1065.2	1007.2	935.6
42.5°	1818.5	1804.8	1775.3	1733.8	1655.4	1579.3	1357.2	1228.8	1223.7	1148.7	1059.5
45°	1900.8	1890.0	1873.0	1883.2	1882.1	1867.9	1585.5	1420.2	1403.8	1306.6	1197.5
47.5°	1881.0	1871.3	1878.1	1957.6	2067.3	2149.7	1851.4	1616.2	1594.1	1467.4	1344.7
50°	1737.2	1741.2	1777.0	1929.2	2175.2	2358.1	2146.3	1839.5	1809.9	1629.3	1484.4
52.5°	1475.3	1485.0	1571.9	1784.9	2163.3	2493.4	2412.7	2070.1	2030.9	1787.2	1611.7
55°	1172.0	1196.4	1308.9	1532.7	2007.6	2503.0	2613.8	2301.9	2258.7	1935.5	1722.5
57.5°	866.9	903.3	1033.4	1239.0	1709.4	2350.2	2714.3	2523.5	2471.2	2082.6	1839.5
60°	549.9	572.1	722.0	964.6	1308.3	1976.4	2701.3	2712.1	2666.6	2229.2	1961.6
62.5°	351.1	361.9	437.4	688.0	914.6	1463.4	2558.7	2854.7	2824.0	2362.7	2077.5
65°	225.5	230.1	268.7	423.2	622.6	883.4	2203.6	2870.0	2874.0	2446.2	2149.1
67.5°	183.5	185.8	200.0	261.3	440.3	488.0	1535.0	2651.9	2700.1	2424.6	2124.7
70°	167.0	169.9	184.6	208.5	340.9	336.9	743.1	2219.0	2297.9	2300.2	2016.2
72.5°	140.9	144.9	164.7	197.1	263.6	265.9	314.7	1580.4	1696.9	2055.9	1853.1
75°	117.6	119.9	136.9	173.8	223.3	212.5	221.0	837.9	1006.1	1648.6	1679.8
77.5°	95.4	97.7	110.2	138.6	198.3	165.3	173.8	347.1	428.9	1119.1	1373.1
80°	68.2	70.4	84.6	107.9	150.0	148.8	129.0	191.4	207.9	605.0	891.9
82.5°	48.9	50.6	64.2	77.3	104.0	149.4	97.1	130.1	136.3	268.1	359.6
85°	32.9	32.9	44.3	51.1	67.0	94.3	78.4	88.1	92.0	127.3	97.1
87.5°	14.2	14.2	23.9	26.1	35.2	43.7	58.5	44.3	45.4	68.7	39.8
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°	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4
2.5°	543.1	543.7	544.8	548.2	550.5	553.9	555.6	557.9	557.9	556.7	557.3
5°	542.0	543.7	547.6	553.9	557.9	564.1	568.7	572.1	573.2	572.1	572.6
7.5°	541.4	544.2	551.0	560.1	565.8	573.8	580.0	584.0	586.8	585.7	586.3
10°	539.7	544.2	552.8	564.1	572.6	580.6	586.3	588.0	589.7	588.5	588.0
12.5°	542.0	547.1	556.2	569.8	579.5	585.7	587.4	584.6	580.6	578.3	577.7
15°	546.5	551.6	560.7	574.9	583.4	585.7	581.7	572.6	563.5	558.4	557.9
17.5°	552.8	556.2	563.5	576.0	582.9	580.0	572.1	561.3	554.5	550.5	551.0
20°	556.7	556.7	562.4	572.1	577.7	575.5	565.8	553.9	543.1	538.0	536.3
22.5°	562.4	559.6	560.1	568.7	576.6	573.2	552.8	531.7	516.4	510.7	510.1
25°	577.7	569.8	564.7	569.8	588.5	560.7	519.8	495.4	481.2	476.1	476.6
27.5°	596.5	585.7	574.9	583.4	598.2	532.3	477.8	449.9	441.4	437.4	439.1
30°	615.2	601.0	586.8	617.5	591.4	488.0	423.8	396.5	389.1	386.3	388.6
32.5°	649.9	626.6	609.6	663.0	570.4	437.4	365.3	340.3	333.5	330.1	328.9
35°	707.8	678.3	661.3	702.7	540.8	381.2	311.9	294.3	286.9	279.5	278.4
37.5°	791.4	755.6	740.2	725.5	499.4	325.5	271.0	259.0	248.3	236.9	236.3
40°	891.3	844.8	833.4	735.7	442.0	273.3	242.6	231.2	217.6	206.8	207.4
42.5°	1006.7	947.0	922.6	732.8	371.0	245.4	222.1	209.6	197.7	188.0	187.5
45°	1129.9	1062.3	1006.1	713.0	300.5	226.1	209.6	194.9	182.9	172.1	171.0
47.5°	1266.3	1190.7	1083.4	674.3	248.3	212.5	202.2	181.2	170.4	163.6	163.6
50°	1403.8	1313.4	1154.4	615.8	217.6	202.2	191.4	173.8	165.3	159.6	159.6
52.5°	1521.3	1441.2	1212.9	545.9	198.3	193.7	184.1	170.4	161.3	156.2	155.7
55°	1635.5	1560.0	1265.1	476.6	182.4	182.4	182.4	167.6	157.4	152.8	152.2
57.5°	1749.2	1685.0	1319.7	431.2	168.2	172.7	178.9	164.2	154.0	150.0	149.4
60°	1877.5	1834.9	1382.7	399.4	155.7	162.5	174.4	160.2	148.3	144.9	144.3
62.5°	2013.9	2013.9	1440.1	354.5	144.3	154.0	167.6	155.1	143.2	140.3	139.8
65°	2120.7	2166.7	1477.0	287.5	132.9	145.4	159.6	148.3	136.3	135.8	134.6
67.5°	2133.2	2205.3	1453.7	217.0	122.7	136.3	151.7	140.9	129.5	129.5	127.8
70°	2043.4	2116.7	1381.0	162.5	115.3	127.3	141.5	131.8	121.0	122.1	119.3
72.5°	1893.5	1911.6	1200.4	128.4	106.8	117.6	129.0	121.6	111.9	111.9	107.9
75°	1695.8	1594.6	872.0	107.4	96.6	106.2	116.5	110.2	101.7	98.8	96.6
77.5°	1349.8	1155.5	506.7	92.6	88.1	95.4	102.3	97.7	90.3	84.1	84.1
80°	822.6	677.2	223.8	80.1	77.8	83.5	88.1	82.9	76.7	70.4	68.7
82.5°	313.0	261.3	108.5	68.7	68.2	71.6	75.0	69.9	65.3	62.5	54.0
85°	85.8	79.0	74.4	57.4	56.2	55.7	59.6	57.4	51.1	42.0	37.5
87.5°	32.4	36.9	40.3	35.2	37.5	34.7	39.8	36.4	32.4	21.0	18.7
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)