

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: P348585

Luminaire Tested: **ARCH-N-PA1-30-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - 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

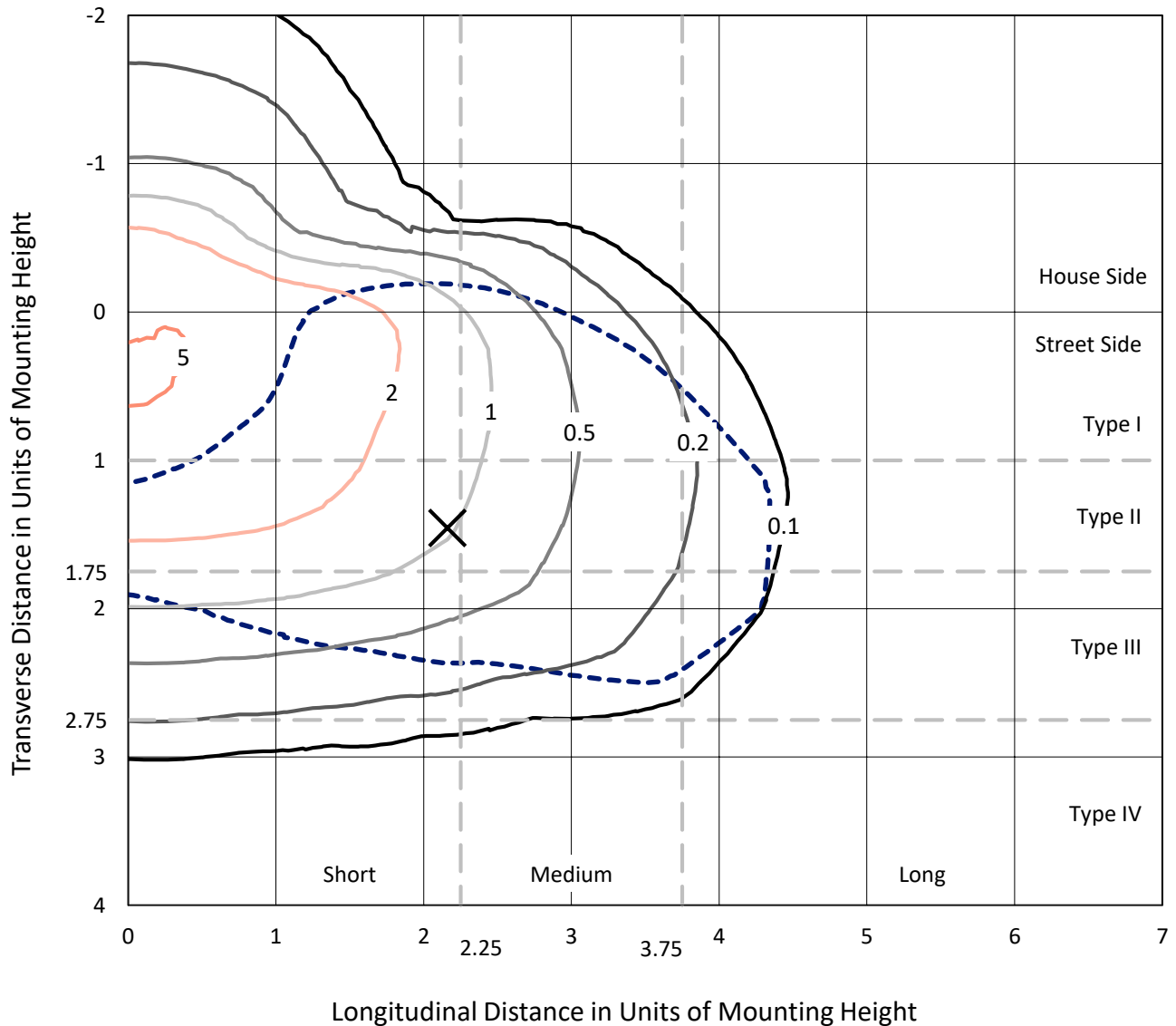


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

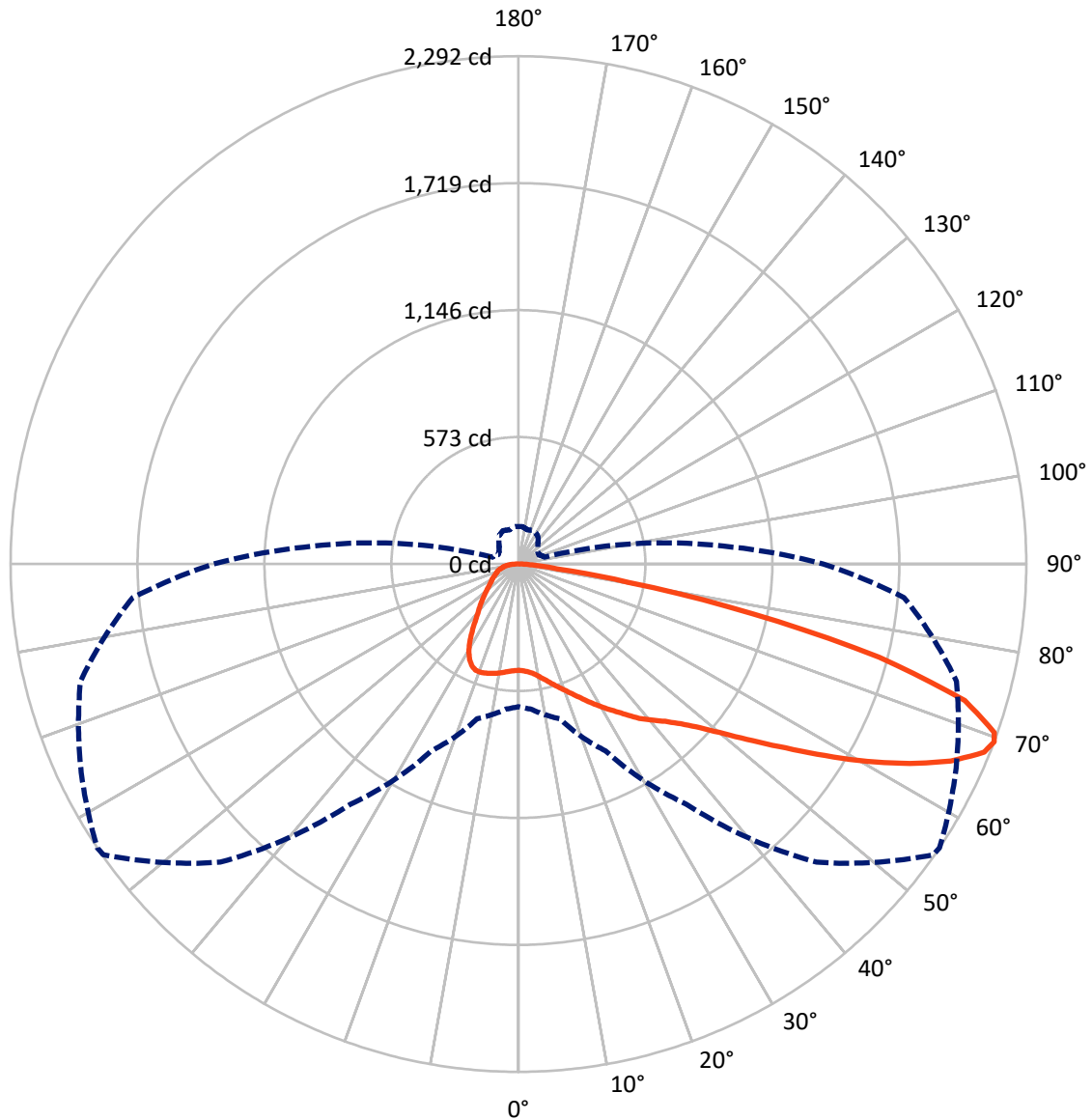


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.1	0.0	817.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2851.9	0.0	2851.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	3669.0	0.0	3669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.3
10°-20°	151.5	4.1
20°-30°	264.4	7.2
30°-40°	379.9	10.4
40°-50°	525.7	14.3
50°-60°	770.2	21.0
60°-70°	939.1	25.6
70°-80°	519.2	14.2
80°-90°	71.9	2.0
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°	3669.0	100.0
0°-180°	3669.0	100.0



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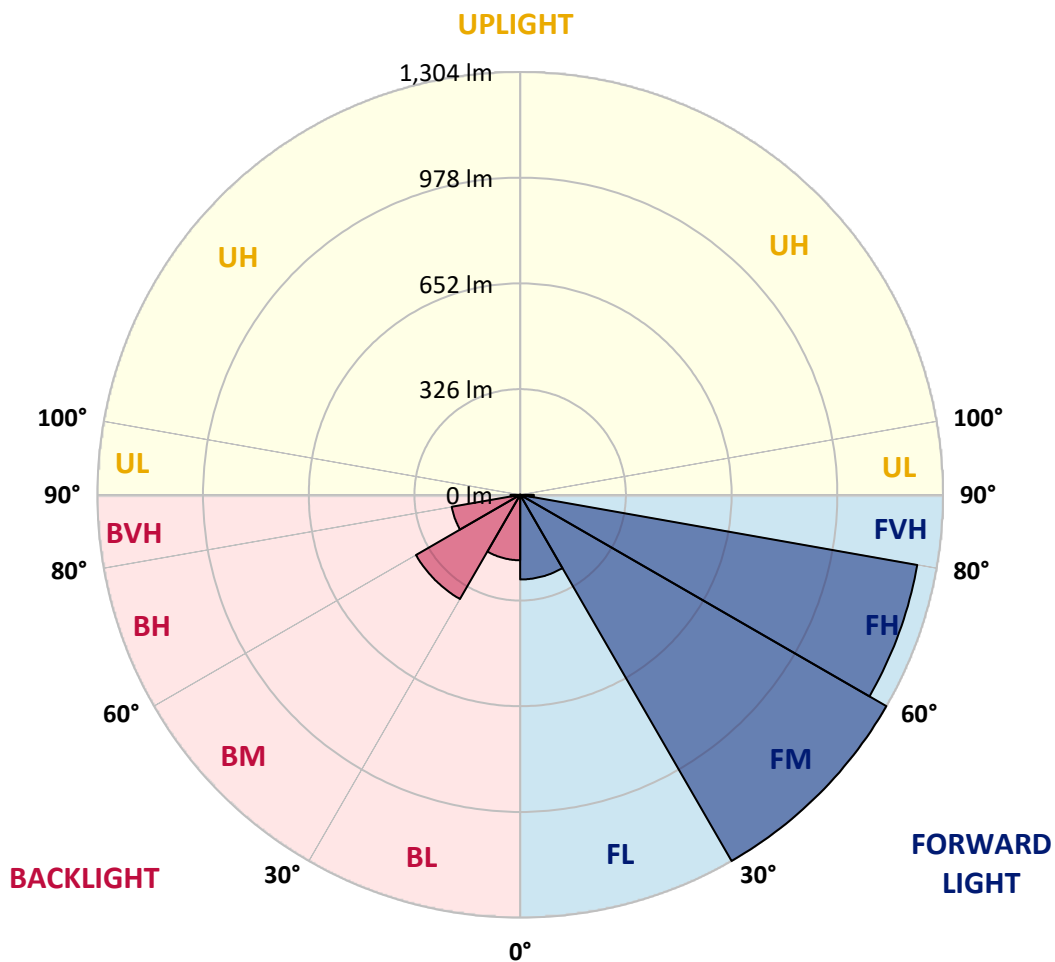
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.1	7.1			
FM	(30°-60°)	1304.5	35.6			
FH	(60°-80°)	1244.0	33.9			G1/1800
FVH	(80°-90°)	42.4	1.2			G1/100
BL	(0°-30°)	201.9	5.5	B1/500		
BM	(30°-60°)	371.3	10.1	B1/1000		
BH	(60°-80°)	214.3	5.8	B1/500		G1/500
BVH	(80°-90°)	29.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7
2.5°	482.7	483.2	482.8	483.8	482.7	483.5	482.8	482.8	482.4	481.3	480.0
5°	490.3	491.3	490.7	491.7	490.3	490.5	489.4	489.4	488.3	485.9	483.3
7.5°	502.2	503.3	502.8	503.8	501.9	501.9	500.4	500.3	498.0	494.1	491.2
10°	516.3	517.8	517.3	518.8	517.3	517.8	516.3	516.3	513.3	507.7	504.1
12.5°	536.9	538.8	537.4	537.3	536.7	537.7	536.4	536.2	533.4	525.8	520.7
15°	564.5	566.5	563.6	563.3	559.8	559.4	559.4	559.0	557.3	548.2	539.8
17.5°	596.2	596.8	594.3	590.3	585.7	582.8	582.4	583.4	583.4	572.8	559.5
20°	627.3	628.4	626.4	621.9	616.0	611.7	608.7	610.7	610.6	598.0	579.1
22.5°	661.2	663.8	660.8	655.0	648.2	643.3	638.0	639.8	639.9	624.4	598.4
25°	705.0	702.6	700.7	692.5	682.8	677.9	672.9	674.7	674.2	652.8	618.2
27.5°	743.8	744.3	741.8	733.1	721.8	711.0	710.7	711.9	710.0	682.4	636.9
30°	789.0	789.2	785.7	777.8	765.6	751.5	748.3	750.2	746.1	710.5	656.6
32.5°	833.8	835.1	831.2	821.7	811.8	794.8	788.2	789.5	779.3	739.2	677.0
35°	873.1	874.9	873.6	867.3	856.6	841.9	834.1	833.3	820.8	774.3	703.9
37.5°	913.2	914.8	913.5	908.1	903.8	888.3	884.1	884.1	862.4	810.2	738.1
40°	954.4	956.9	955.3	948.0	944.3	937.2	927.2	924.8	901.3	853.3	794.0
42.5°	992.7	996.0	1002.6	998.3	990.8	991.8	971.7	970.5	953.3	917.0	864.2
45°	1047.1	1051.9	1063.0	1059.7	1058.2	1052.6	1028.7	1027.6	1021.0	1002.7	951.2
47.5°	1106.3	1112.9	1133.0	1133.6	1149.9	1139.4	1107.0	1103.0	1104.6	1105.3	1057.5
50°	1160.9	1168.1	1201.1	1216.7	1255.1	1257.4	1205.4	1201.9	1207.8	1225.3	1181.4
52.5°	1204.5	1213.6	1254.8	1302.9	1368.7	1387.4	1326.6	1324.0	1328.4	1358.5	1321.5
55°	1236.5	1246.4	1291.2	1378.7	1483.9	1516.9	1466.2	1463.6	1466.4	1504.7	1473.8
57.5°	1244.0	1246.4	1311.5	1429.8	1581.1	1660.3	1636.9	1631.9	1618.2	1651.6	1641.9
60°	1209.0	1218.6	1294.8	1447.7	1656.3	1801.8	1815.4	1809.1	1770.8	1798.1	1790.2
62.5°	1137.9	1155.1	1232.5	1420.4	1685.7	1917.3	1990.5	1982.9	1916.9	1934.6	1896.9
65°	1021.9	1029.2	1110.5	1326.3	1648.3	1991.2	2146.6	2142.8	2059.7	2032.0	1916.6
67.5°	814.4	828.1	897.1	1129.5	1495.2	1982.5	2267.3	2266.9	2153.0	2068.2	1846.7
69°	643.3	657.6	723.4	930.4	1323.1	1902.7	2287.5	2291.9	2179.3	2046.2	1746.9
70°	512.9	529.5	574.6	783.6	1170.3	1797.6	2270.7	2278.6	2174.2	2009.9	1654.8
72.5°	218.3	231.7	263.8	404.0	713.2	1342.3	2076.2	2106.2	2057.1	1839.5	1367.6
75°	95.3	99.5	114.0	164.7	316.6	730.6	1626.4	1682.1	1758.9	1554.9	1018.7
77.5°	69.8	71.5	79.5	96.7	142.1	275.9	1045.9	1078.3	1268.5	1131.5	624.9
80°	54.0	55.2	61.4	71.0	92.8	111.6	477.0	504.8	713.2	581.2	260.2
82.5°	43.0	43.9	48.2	52.3	64.1	67.6	158.4	175.7	263.3	160.5	68.9
85°	39.9	41.0	42.5	38.2	41.1	39.7	68.5	71.7	79.5	63.1	28.8
87.5°	18.1	21.4	42.1	29.7	21.9	17.4	28.1	29.3	33.0	33.1	12.8
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°	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7
2.5°	480.8	480.4	481.1	479.5	481.4	481.3	480.7	480.9	482.2	482.1	482.2
5°	483.7	483.5	484.2	483.1	485.4	486.1	486.2	487.4	488.8	489.1	489.1
7.5°	491.0	491.0	491.4	489.9	491.4	491.3	490.7	491.8	493.2	493.3	493.2
10°	503.7	503.8	503.2	499.3	498.0	494.6	491.4	491.5	493.3	494.7	495.1
12.5°	519.6	519.1	516.3	509.1	503.8	496.9	493.6	493.4	495.2	496.4	496.7
15°	537.8	536.4	529.2	517.5	508.1	501.3	496.0	494.7	493.7	492.4	492.6
17.5°	555.0	551.8	539.8	523.5	513.7	504.6	494.3	486.1	480.4	477.1	476.1
20°	572.4	566.2	548.9	529.2	516.7	500.1	480.4	463.7	453.4	448.6	447.7
22.5°	588.4	578.4	557.4	535.2	514.3	485.2	454.3	430.0	415.6	409.1	409.6
25°	603.9	590.0	566.2	539.3	502.2	458.9	417.9	388.0	371.3	364.1	363.9
27.5°	617.6	601.8	575.9	535.9	479.5	421.5	374.8	345.7	331.8	325.6	324.6
30°	633.2	616.6	588.6	522.9	446.4	378.3	332.7	312.2	302.3	296.1	295.0
32.5°	652.3	636.6	599.1	499.3	404.1	333.2	299.8	285.5	276.6	269.6	268.3
35°	680.1	663.2	601.8	465.4	357.6	297.5	275.7	261.0	248.9	239.9	239.0
37.5°	715.0	696.4	595.7	421.5	312.4	274.4	255.6	237.5	221.7	209.1	207.0
40°	765.3	737.3	578.9	371.0	279.2	256.6	236.0	215.4	195.8	181.0	178.1
42.5°	825.7	785.2	553.1	320.7	254.8	238.5	216.5	191.0	172.3	161.8	160.3
45°	902.6	835.0	517.3	276.7	230.8	220.4	195.5	172.0	160.4	152.7	151.4
47.5°	990.3	890.8	479.8	240.9	210.4	203.5	178.7	163.6	154.3	148.3	147.1
50°	1098.1	953.9	440.0	211.6	190.0	183.1	170.8	158.9	151.5	146.9	145.7
52.5°	1219.7	1025.1	411.3	188.5	173.0	168.1	166.6	156.3	150.4	146.9	145.7
55°	1350.6	1097.5	380.3	169.0	158.4	159.8	163.8	156.6	152.6	148.3	146.6
57.5°	1481.7	1172.3	345.8	152.6	146.7	153.6	161.9	157.1	153.7	149.5	148.0
60°	1585.4	1219.7	292.4	138.8	137.5	146.7	157.4	153.3	148.9	149.0	148.8
62.5°	1633.8	1217.2	233.3	126.5	128.3	137.5	150.0	147.4	143.7	148.6	149.0
65°	1606.6	1156.5	181.6	115.4	118.4	127.9	142.4	144.5	145.7	155.2	156.5
67.5°	1492.6	1038.5	140.7	105.7	109.5	121.3	143.2	157.4	159.0	169.0	168.9
69°	1374.7	927.7	122.2	100.6	105.0	123.0	153.1	165.6	159.4	170.0	168.5
70°	1275.8	840.1	112.4	97.2	103.0	125.9	159.6	165.5	157.5	166.6	164.1
72.5°	982.6	604.4	95.3	90.9	96.2	120.5	161.5	161.8	153.1	154.8	150.5
75°	673.9	382.0	83.2	82.3	85.8	108.6	155.5	154.6	141.6	139.0	135.5
77.5°	371.6	194.0	70.7	74.1	76.5	96.2	141.3	140.0	129.3	124.0	122.7
80°	143.3	84.9	59.7	65.9	67.4	83.3	123.9	122.7	113.8	106.9	105.0
82.5°	54.1	44.5	49.3	57.0	56.5	68.8	104.9	104.3	95.6	85.6	82.5
85°	25.0	26.7	39.1	47.0	43.4	50.9	83.9	85.1	74.4	62.6	62.6
87.5°	10.6	14.9	27.7	35.5	29.2	34.4	61.6	58.8	54.0	37.4	35.1
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)