

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: P348920

Luminaire Tested: **ARCH-N-PA1-20-727-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348920
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-PA1-20-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2852 lumens
Efficiency: N/A
Efficacy: 118.8 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

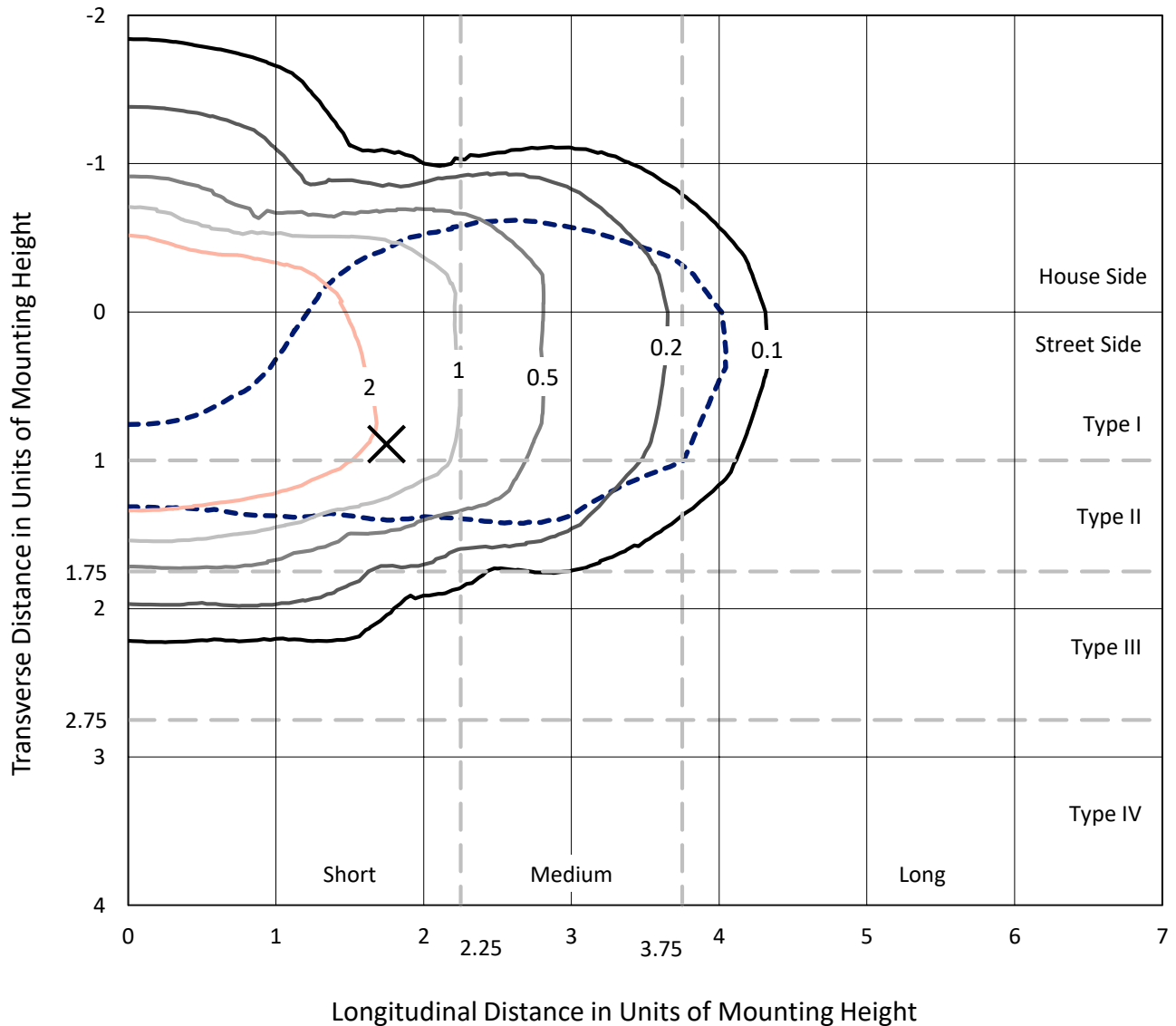
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

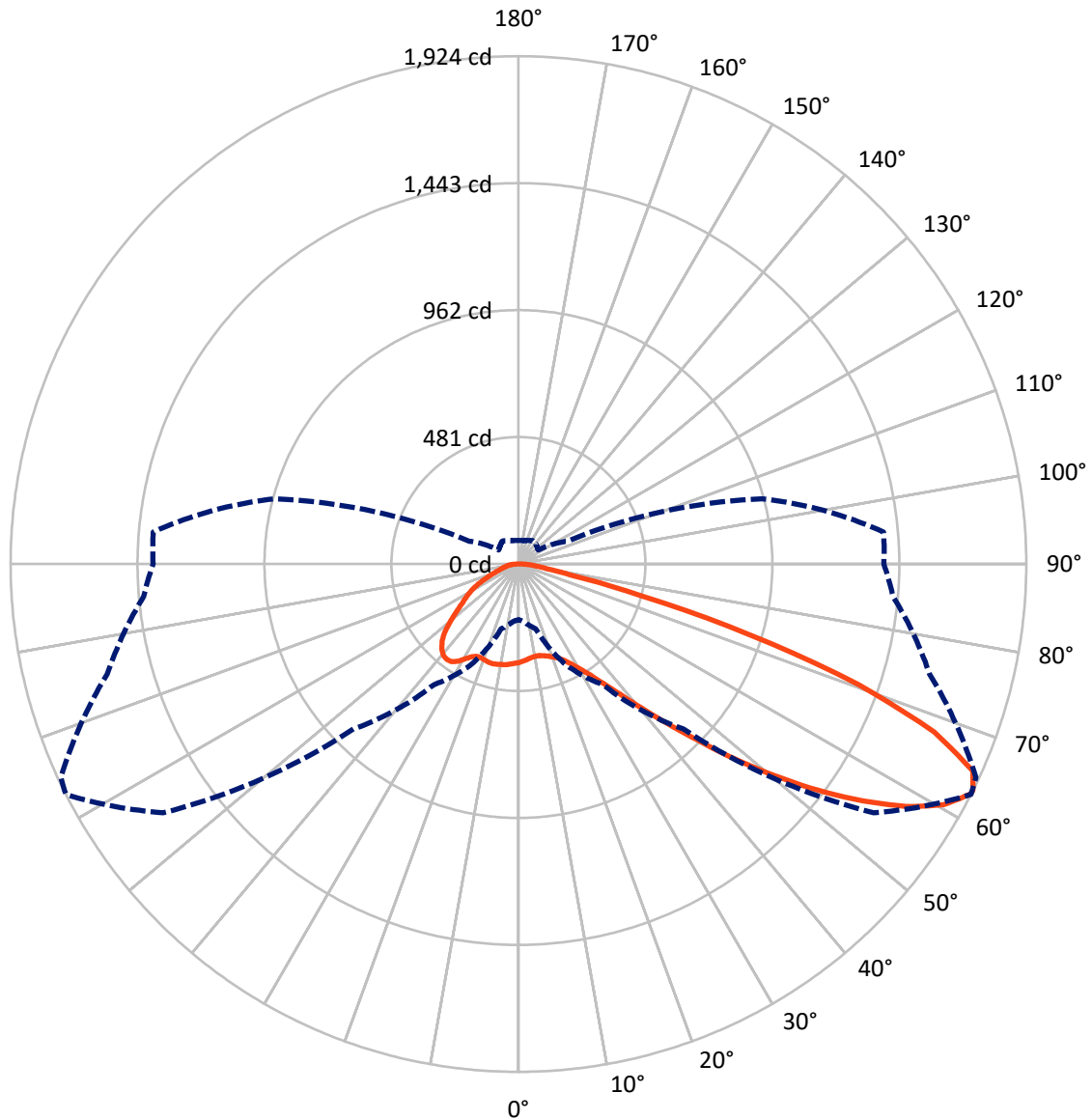
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 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	814.2	0.0	814.2
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2037.8	0.0	2037.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	2852.0	0.0	2852.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	1.2
10°-20°	104.5	3.7
20°-30°	183.6	6.4
30°-40°	309.5	10.9
40°-50°	542.1	19.0
50°-60°	700.7	24.6
60°-70°	606.5	21.3
70°-80°	314.9	11.0
80°-90°	54.9	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°	2852.0	100.0
0°-180°	2852.0	100.0



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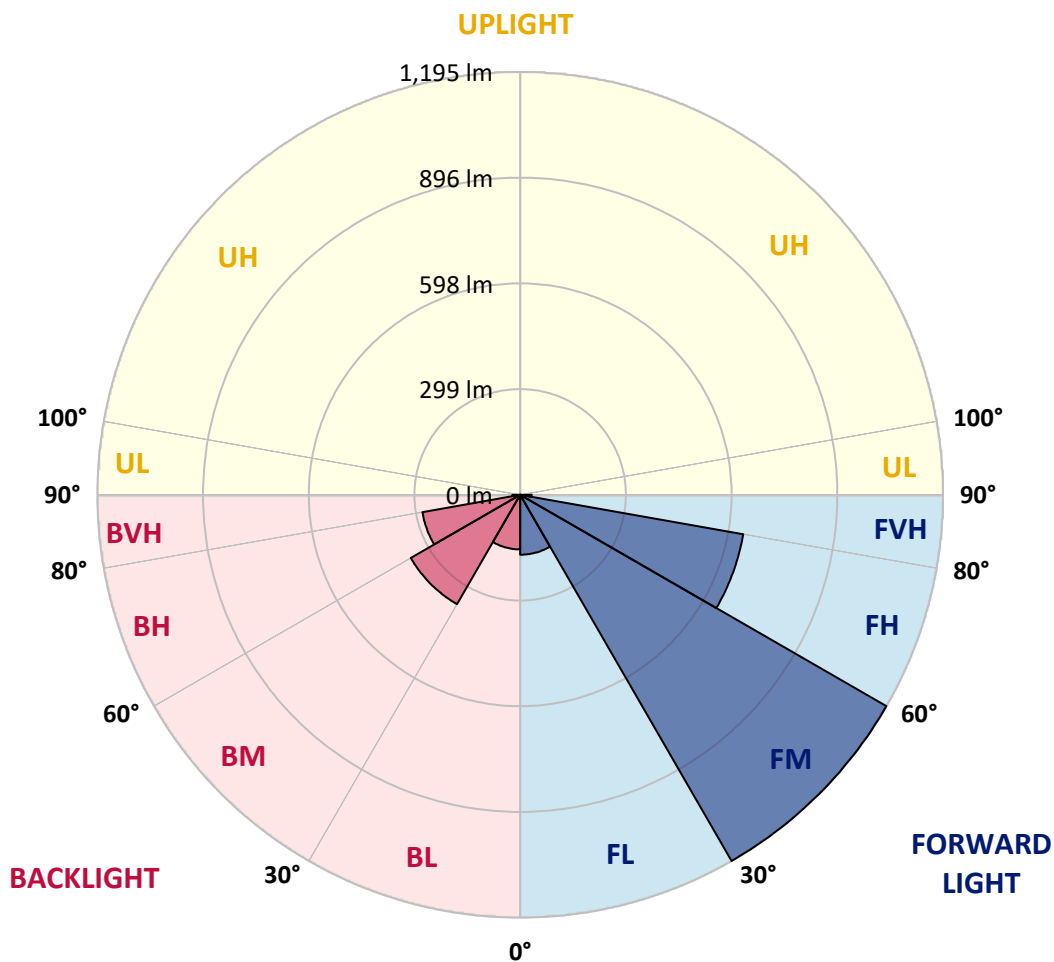
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.3	5.9			
FM	(30°-60°)	1195.3	41.9			
FH	(60°-80°)	640.5	22.5			G0/660
FVH	(80°-90°)	32.7	1.1			G1/100
BL	(0°-30°)	154.2	5.4	B1/500		
BM	(30°-60°)	356.9	12.5	B1/1000		
BH	(60°-80°)	280.9	9.8	B1/500		G1/500
BVH	(80°-90°)	22.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	364.6	363.5	365.4	366.2	365.9	367.5	367.5	367.8	367.8	369.1	370.5
5°	353.9	353.4	355.3	356.6	357.7	360.1	361.7	362.5	363.3	365.1	368.3
7.5°	343.8	343.0	345.7	346.7	348.3	351.8	355.5	357.7	358.7	362.7	367.3
10°	335.5	335.2	337.4	338.4	340.3	345.4	350.7	355.3	356.1	361.4	365.7
12.5°	331.5	331.0	333.4	334.7	337.9	344.0	350.2	355.8	357.1	363.3	367.0
15°	334.7	335.2	337.4	337.6	341.4	347.8	354.7	360.3	361.7	367.8	370.5
17.5°	349.9	349.7	351.0	350.5	351.8	355.0	362.5	367.0	368.6	373.1	375.3
20°	377.4	376.6	377.7	374.2	368.3	366.7	371.3	376.3	376.9	379.5	378.2
22.5°	419.3	420.1	417.7	408.9	394.8	388.1	385.2	386.8	388.6	388.4	384.4
25°	474.0	476.7	472.2	456.7	432.9	417.5	406.8	404.4	405.7	402.0	395.8
27.5°	545.8	548.0	538.1	514.1	482.0	459.1	437.7	429.5	429.5	421.5	410.2
30°	624.8	626.2	610.4	580.0	542.9	508.7	477.2	461.2	459.9	444.1	426.5
32.5°	720.9	717.2	698.5	660.9	614.2	567.2	526.6	502.3	499.7	475.9	453.5
35°	845.0	845.0	806.3	763.4	706.5	646.7	593.3	555.7	553.0	526.1	497.0
37.5°	979.8	979.3	944.3	885.1	817.0	743.9	672.6	625.6	619.5	590.7	558.1
40°	1114.1	1109.6	1081.3	1024.9	952.3	868.8	770.6	715.9	712.9	671.8	631.0
42.5°	1212.3	1208.0	1194.7	1157.1	1109.3	1049.0	897.9	824.0	819.7	767.9	718.0
45°	1266.5	1260.4	1258.5	1259.0	1264.4	1264.1	1055.1	951.8	936.9	876.8	810.3
47.5°	1254.2	1239.8	1259.0	1308.4	1391.4	1445.9	1238.2	1103.7	1075.9	990.0	908.8
50°	1155.2	1148.3	1189.4	1290.0	1460.5	1588.4	1439.7	1261.4	1222.2	1097.0	1002.0
52.5°	981.4	994.8	1045.5	1188.6	1448.0	1674.6	1622.8	1425.3	1370.9	1199.0	1082.9
55°	781.3	798.1	869.6	1021.2	1331.9	1675.7	1754.9	1584.1	1535.5	1304.4	1165.6
57.5°	568.5	592.3	681.7	820.8	1128.2	1561.2	1820.1	1732.8	1677.3	1408.2	1246.5
60°	357.1	373.9	471.4	632.6	862.4	1308.4	1803.8	1851.8	1805.9	1506.2	1338.8
62.5°	230.1	238.1	280.3	451.6	601.4	959.5	1683.4	1920.2	1900.4	1595.6	1408.5
63°	210.9	217.8	253.8	417.5	557.6	884.0	1642.8	1923.6	1911.9	1612.4	1424.8
65°	150.8	158.3	177.0	286.9	411.6	593.1	1407.7	1891.3	1904.4	1640.4	1446.9
67.5°	119.0	121.4	130.0	174.3	292.0	336.8	947.3	1698.4	1755.7	1610.5	1414.1
70°	106.5	108.4	118.0	133.7	221.0	218.3	494.1	1365.5	1484.3	1508.6	1331.4
72.5°	92.9	94.2	106.0	126.0	168.7	166.8	214.9	918.2	1062.6	1321.7	1216.9
75°	76.9	78.2	88.1	111.8	142.8	131.9	134.5	479.9	609.1	1036.2	1067.1
77.5°	63.3	64.1	72.3	89.9	125.7	101.7	104.1	201.8	296.0	706.2	842.6
80°	45.9	46.2	53.9	68.3	96.1	91.8	77.4	110.0	134.3	387.0	530.1
82.5°	32.0	32.3	40.3	47.8	66.2	91.6	56.3	73.7	80.6	178.3	236.0
85°	22.4	21.9	27.5	31.5	41.9	55.5	43.0	47.2	49.9	77.1	63.5
87.5°	9.9	9.6	15.5	16.8	21.1	25.6	34.2	24.8	26.4	37.4	20.0
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°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	370.7	371.8	373.4	375.8	377.7	378.5	380.1	380.3	382.8	380.6	380.9
5°	370.2	371.5	375.0	379.3	382.2	384.4	388.4	389.7	392.1	391.0	390.8
7.5°	369.4	371.8	376.9	383.0	387.6	391.0	394.8	397.2	399.6	399.0	398.5
10°	368.3	371.3	378.5	384.6	391.0	394.8	397.4	397.7	398.5	398.0	396.6
12.5°	369.1	372.3	380.6	386.8	393.4	396.1	395.3	391.3	387.8	384.9	384.4
15°	371.8	375.5	383.3	388.9	394.2	392.6	387.8	379.0	372.6	368.9	369.1
17.5°	374.5	377.7	383.6	388.1	390.8	386.0	378.5	371.0	368.1	365.1	364.6
20°	376.9	377.4	381.2	385.2	384.9	381.2	374.2	365.1	359.3	354.5	354.7
22.5°	380.6	378.5	378.7	381.2	384.1	380.6	364.3	348.6	339.8	334.2	333.9
25°	389.2	384.6	380.3	381.7	392.9	370.7	343.2	322.7	315.0	309.9	310.4
27.5°	400.9	394.8	386.2	393.4	399.6	351.3	313.1	292.0	286.7	281.3	282.7
30°	413.7	404.9	394.5	418.8	392.1	320.3	275.7	256.5	251.7	246.6	247.7
32.5°	436.7	423.6	410.0	449.2	374.7	282.7	236.5	219.1	215.9	212.7	213.0
35°	474.8	459.4	444.7	472.4	352.3	243.4	201.3	189.0	186.3	182.6	182.6
37.5°	531.2	506.9	499.1	484.7	321.6	206.9	175.4	167.1	161.5	156.4	156.4
40°	596.5	567.7	561.6	488.4	281.6	176.4	157.2	150.0	142.5	135.1	135.6
42.5°	676.1	637.1	623.0	483.4	233.0	156.9	144.4	136.1	128.9	122.5	121.4
45°	765.8	716.4	680.6	468.7	189.0	144.9	136.1	126.2	117.2	111.6	110.5
47.5°	857.3	802.3	731.6	439.3	158.0	136.4	130.5	116.6	110.2	106.5	106.0
50°	944.9	887.5	773.8	393.2	140.1	130.3	122.2	112.1	106.8	103.6	103.3
52.5°	1022.5	968.4	809.3	345.4	128.1	125.2	118.5	110.0	104.4	101.4	100.9
55°	1096.5	1050.3	844.5	302.7	117.7	116.6	116.6	107.8	101.7	99.0	98.5
57.5°	1177.6	1143.5	880.0	271.4	108.4	110.5	114.2	105.4	98.8	96.4	96.1
60°	1271.3	1251.3	917.4	244.0	100.1	103.8	110.8	102.2	95.3	93.4	92.9
62.5°	1367.1	1367.7	949.7	210.9	93.2	98.8	106.8	99.3	92.1	90.8	90.5
63°	1383.9	1388.7	954.2	203.7	91.6	97.7	105.7	98.2	91.3	89.9	89.7
65°	1425.3	1446.4	957.9	173.2	85.7	93.7	101.7	94.8	87.8	87.5	87.0
67.5°	1415.4	1449.9	934.7	135.9	79.0	88.1	96.1	89.7	83.5	83.5	82.5
70°	1341.8	1364.2	863.5	104.9	73.9	82.2	89.4	84.3	77.9	78.5	76.3
72.5°	1228.9	1204.3	710.3	81.9	67.8	75.5	81.7	77.4	71.8	71.3	68.9
75°	1063.4	982.5	508.7	66.2	60.3	66.7	73.1	69.9	64.9	61.9	61.4
77.5°	810.3	697.4	304.8	56.1	53.9	59.3	63.3	60.9	56.9	53.4	53.6
80°	482.6	402.2	137.5	47.5	46.7	50.7	53.9	52.0	49.4	45.1	44.0
82.5°	195.4	155.6	61.7	38.4	39.5	42.4	45.4	43.8	41.6	40.6	34.4
85°	50.7	48.8	36.0	28.8	30.4	31.8	35.8	35.8	33.9	27.8	25.6
87.5°	14.4	19.2	20.0	18.2	20.6	20.8	24.8	24.8	25.4	17.1	15.5
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)