

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: P348926

Luminaire Tested: **ARCH-N-PA1-19-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348926
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-PA1-19-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2742 lumens
Efficiency: N/A
Efficacy: 144.3 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

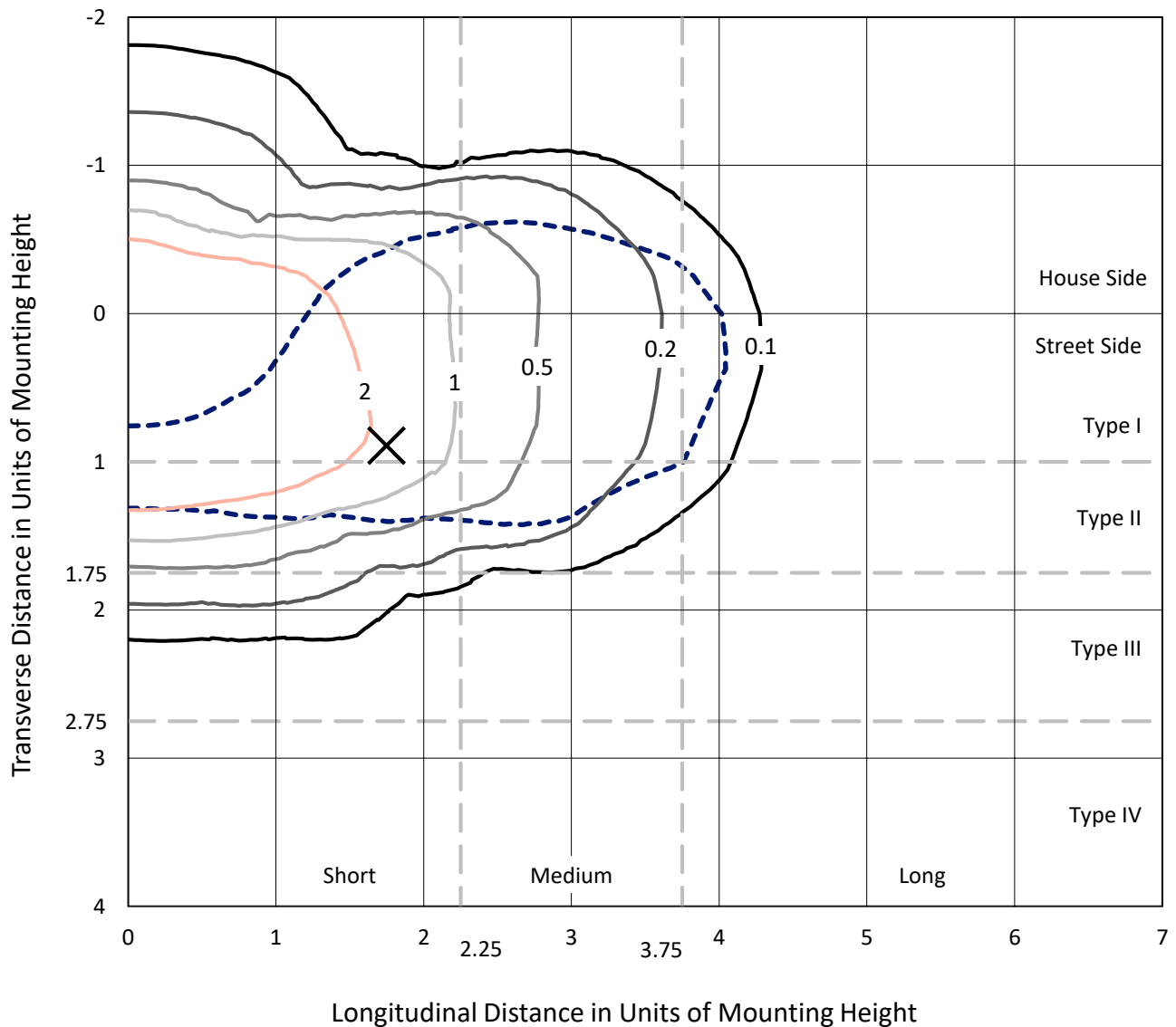
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

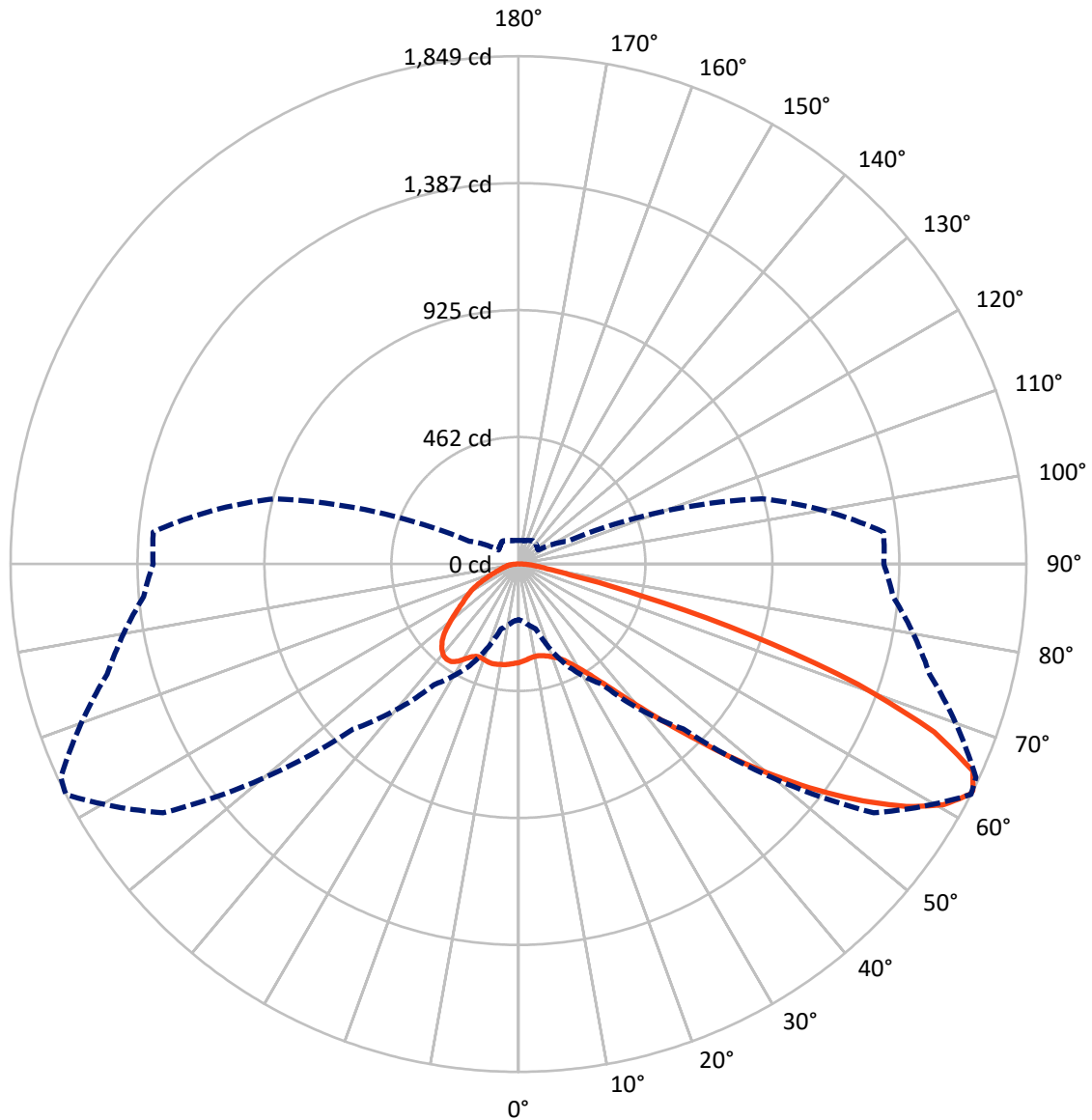
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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	782.8	0.0	782.8
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1959.2	0.0	1959.2
	% Fixture	71.5	0.0	71.5
Total	Lumens	2742.0	0.0	2742.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	1.2
10°-20°	100.5	3.7
20°-30°	176.5	6.4
30°-40°	297.5	10.9
40°-50°	521.2	19.0
50°-60°	673.6	24.6
60°-70°	583.1	21.3
70°-80°	302.7	11.0
80°-90°	52.7	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°	2742.0	100.0
0°-180°	2742.0	100.0



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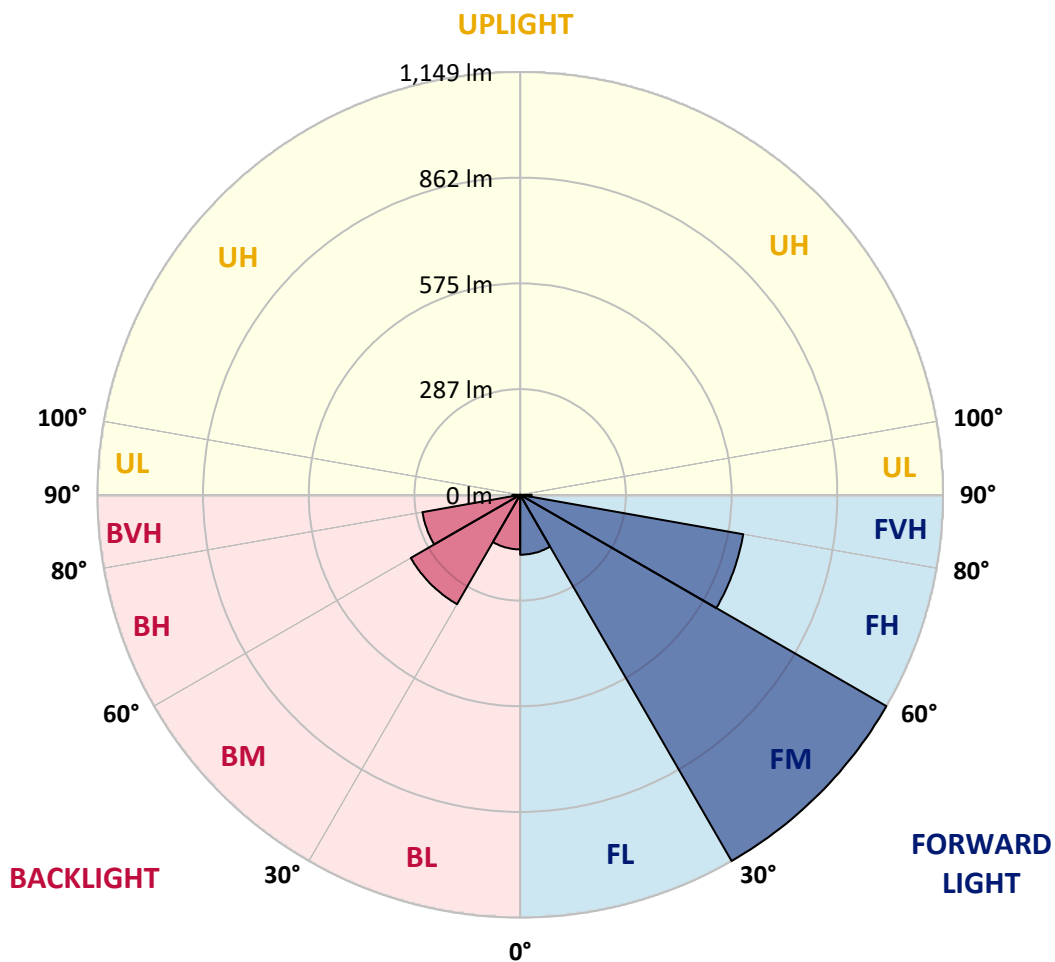
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.8	5.9			
FM	(30°-60°)	1149.2	41.9			
FH	(60°-80°)	615.8	22.5			G0/660
FVH	(80°-90°)	31.4	1.1			G1/100
BL	(0°-30°)	148.3	5.4	B1/500		
BM	(30°-60°)	343.1	12.5	B1/1000		
BH	(60°-80°)	270.0	9.8	B1/500		G1/500
BVH	(80°-90°)	21.3	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°	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0
2.5°	350.5	349.5	351.3	352.1	351.8	353.4	353.4	353.6	353.6	354.9	356.2
5°	340.3	339.8	341.6	342.8	343.9	346.2	347.7	348.5	349.3	351.1	354.1
7.5°	330.5	329.8	332.3	333.3	334.9	338.2	341.8	343.9	344.9	348.7	353.1
10°	322.6	322.3	324.4	325.4	327.2	332.1	337.2	341.6	342.3	347.5	351.6
12.5°	318.7	318.2	320.5	321.8	324.9	330.8	336.7	342.1	343.4	349.3	352.8
15°	321.8	322.3	324.4	324.6	328.2	334.4	341.0	346.4	347.7	353.6	356.2
17.5°	336.4	336.2	337.5	336.9	338.2	341.3	348.5	352.8	354.4	358.8	360.8
20°	362.9	362.1	363.1	359.8	354.1	352.6	357.0	361.8	362.3	364.9	363.6
22.5°	403.1	403.9	401.6	393.1	379.5	373.1	370.3	371.8	373.6	373.4	369.5
25°	455.8	458.3	454.0	439.1	416.2	401.3	391.1	388.8	390.1	386.5	380.6
27.5°	524.8	526.8	517.3	494.2	463.5	441.4	420.9	412.9	412.9	405.2	394.4
30°	600.7	602.0	586.9	557.6	522.0	489.1	458.8	443.4	442.2	427.0	410.1
32.5°	693.1	689.5	671.6	635.4	590.5	545.3	506.3	483.0	480.4	457.5	436.0
35°	812.5	812.5	775.2	733.9	679.3	621.8	570.5	534.3	531.7	505.8	477.8
37.5°	942.0	941.5	907.9	850.9	785.5	715.2	646.7	601.5	595.6	567.9	536.6
40°	1071.1	1066.8	1039.6	985.4	915.6	835.3	740.9	688.2	685.4	645.9	606.6
42.5°	1165.6	1161.5	1148.6	1112.4	1066.5	1008.5	863.3	792.2	788.1	738.3	690.3
45°	1217.7	1211.7	1210.0	1210.5	1215.6	1215.3	1014.4	915.1	900.7	843.0	779.1
47.5°	1205.8	1192.0	1210.5	1257.9	1337.7	1390.1	1190.4	1061.1	1034.4	951.8	873.8
50°	1110.6	1104.0	1143.5	1240.2	1404.2	1527.1	1384.2	1212.8	1175.1	1054.7	963.3
52.5°	943.6	956.4	1005.2	1142.7	1392.2	1610.0	1560.2	1370.3	1318.0	1152.7	1041.1
55°	751.1	767.3	836.1	981.8	1280.5	1611.0	1687.3	1523.0	1476.3	1254.1	1120.6
57.5°	546.6	569.4	655.4	789.1	1084.7	1501.0	1749.9	1666.0	1612.6	1353.9	1198.4
60°	343.4	359.5	453.2	608.2	829.1	1257.9	1734.2	1780.4	1736.3	1448.1	1287.2
62.5°	221.2	228.9	269.4	434.2	578.2	922.5	1618.5	1846.1	1827.1	1534.1	1354.2
63°	202.7	209.4	244.0	401.3	536.1	849.9	1579.5	1849.4	1838.2	1550.2	1369.8
65°	145.0	152.2	170.1	275.9	395.7	570.2	1353.4	1818.4	1831.0	1577.2	1391.1
67.5°	114.5	116.8	125.0	167.6	280.7	323.9	910.7	1632.9	1688.0	1548.4	1359.6
70°	102.4	104.2	113.4	128.6	212.5	209.9	475.0	1312.9	1427.1	1450.4	1280.0
72.5°	89.3	90.6	101.9	121.1	162.2	160.4	206.6	882.8	1021.6	1270.8	1169.9
75°	73.9	75.2	84.7	107.5	137.3	126.8	129.3	461.4	585.6	996.2	1026.0
77.5°	60.8	61.6	69.5	86.5	120.9	97.8	100.1	194.0	284.6	679.0	810.1
80°	44.1	44.4	51.8	65.7	92.4	88.3	74.4	105.7	129.1	372.1	509.6
82.5°	30.8	31.1	38.7	45.9	63.6	88.0	54.1	70.8	77.5	171.4	226.8
85°	21.6	21.0	26.4	30.3	40.3	53.4	41.3	45.4	48.0	74.2	61.1
87.5°	9.5	9.2	14.9	16.2	20.3	24.6	32.8	23.9	25.4	35.9	19.2
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°	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0	359.0
2.5°	356.4	357.5	359.0	361.3	363.1	363.9	365.4	365.7	368.0	365.9	366.2
5°	355.9	357.2	360.5	364.7	367.5	369.5	373.4	374.7	377.0	375.9	375.7
7.5°	355.2	357.5	362.3	368.2	372.6	375.9	379.5	381.8	384.2	383.6	383.1
10°	354.1	357.0	363.9	369.8	375.9	379.5	382.1	382.4	383.1	382.6	381.3
12.5°	354.9	358.0	365.9	371.8	378.3	380.8	380.1	376.2	372.9	370.0	369.5
15°	357.5	361.1	368.5	373.9	379.0	377.5	372.9	364.4	358.2	354.6	354.9
17.5°	360.0	363.1	368.8	373.1	375.7	371.1	363.9	356.7	353.9	351.1	350.5
20°	362.3	362.9	366.4	370.3	370.0	366.4	359.8	351.1	345.4	340.8	341.0
22.5°	365.9	363.9	364.1	366.4	369.3	365.9	350.3	335.1	326.7	321.3	321.0
25°	374.1	369.8	365.7	367.0	377.7	356.4	330.0	310.3	302.8	297.9	298.4
27.5°	385.4	379.5	371.3	378.3	384.2	337.7	301.0	280.7	275.6	270.5	271.8
30°	397.8	389.3	379.3	402.6	377.0	307.9	265.1	246.6	242.0	237.1	238.1
32.5°	419.8	407.3	394.2	431.9	360.3	271.8	227.4	210.7	207.6	204.5	204.8
35°	456.5	441.6	427.5	454.2	338.7	234.0	193.5	181.7	179.1	175.5	175.5
37.5°	510.7	487.3	479.9	466.0	309.2	198.9	168.6	160.6	155.3	150.4	150.4
40°	573.5	545.8	539.9	469.6	270.7	169.6	151.1	144.2	137.0	129.8	130.4
42.5°	650.0	612.5	598.9	464.7	224.0	150.9	138.8	130.9	123.9	117.8	116.8
45°	736.2	688.8	654.4	450.6	181.7	139.3	130.9	121.4	112.7	107.3	106.2
47.5°	824.3	771.4	703.4	422.4	151.9	131.1	125.5	112.1	106.0	102.4	101.9
50°	908.4	853.3	743.9	378.0	134.7	125.2	117.5	107.8	102.6	99.6	99.3
52.5°	983.1	931.0	778.1	332.1	123.2	120.4	113.9	105.7	100.3	97.5	97.0
55°	1054.2	1009.8	811.9	291.0	113.2	112.1	112.1	103.7	97.8	95.2	94.7
57.5°	1132.2	1099.3	846.1	261.0	104.2	106.2	109.8	101.4	94.9	92.6	92.4
60°	1222.3	1203.0	882.0	234.5	96.2	99.8	106.5	98.3	91.6	89.8	89.3
62.5°	1314.4	1314.9	913.0	202.7	89.6	94.9	102.6	95.5	88.5	87.2	87.0
63°	1330.6	1335.2	917.4	195.8	88.0	93.9	101.6	94.4	87.8	86.5	86.2
65°	1370.3	1390.6	921.0	166.5	82.4	90.1	97.8	91.1	84.4	84.2	83.7
67.5°	1360.8	1393.9	898.7	130.6	76.0	84.7	92.4	86.2	80.3	80.3	79.3
70°	1290.0	1311.6	830.2	100.9	71.1	79.0	86.0	81.1	74.9	75.4	73.4
72.5°	1181.5	1157.9	682.9	78.8	65.2	72.6	78.5	74.4	69.0	68.5	66.2
75°	1022.4	944.6	489.1	63.6	58.0	64.2	70.3	67.2	62.4	59.5	59.0
77.5°	779.1	670.5	293.1	53.9	51.8	57.0	60.8	58.5	54.7	51.3	51.6
80°	464.0	386.7	132.2	45.7	44.9	48.8	51.8	50.0	47.5	43.4	42.3
82.5°	187.8	149.6	59.3	37.0	38.0	40.8	43.6	42.1	40.0	39.0	33.1
85°	48.8	47.0	34.6	27.7	29.3	30.5	34.4	34.4	32.6	26.7	24.6
87.5°	13.9	18.5	19.2	17.4	19.8	20.0	23.9	23.9	24.4	16.4	14.9
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)