

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: P348927

Luminaire Tested: **ARCH-N-PA1-20-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348927
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-PA1-20-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3105 lumens
Efficiency: N/A
Efficacy: 129.4 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

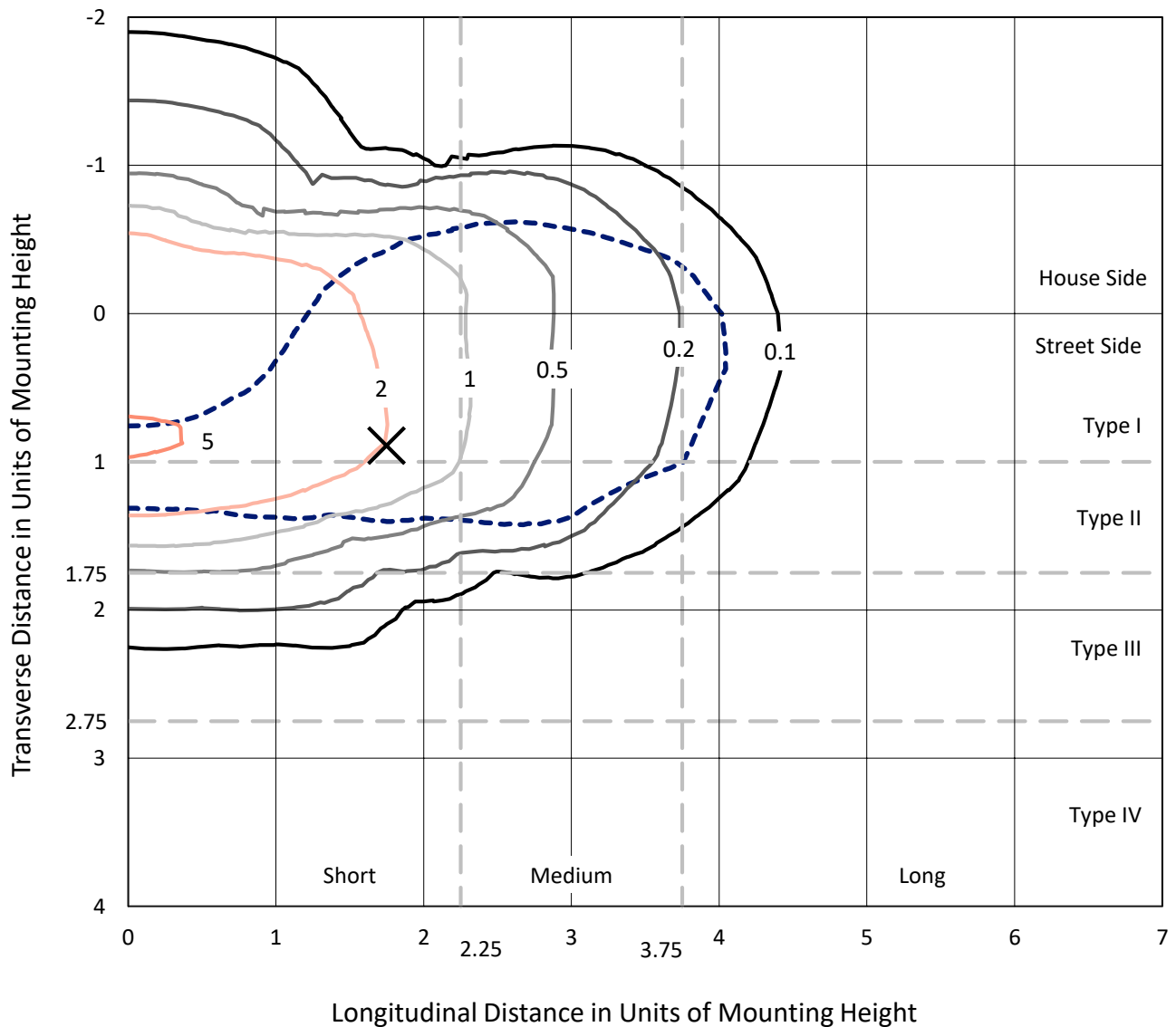


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Iso-Footcandle Lines of Horizontal Illumination

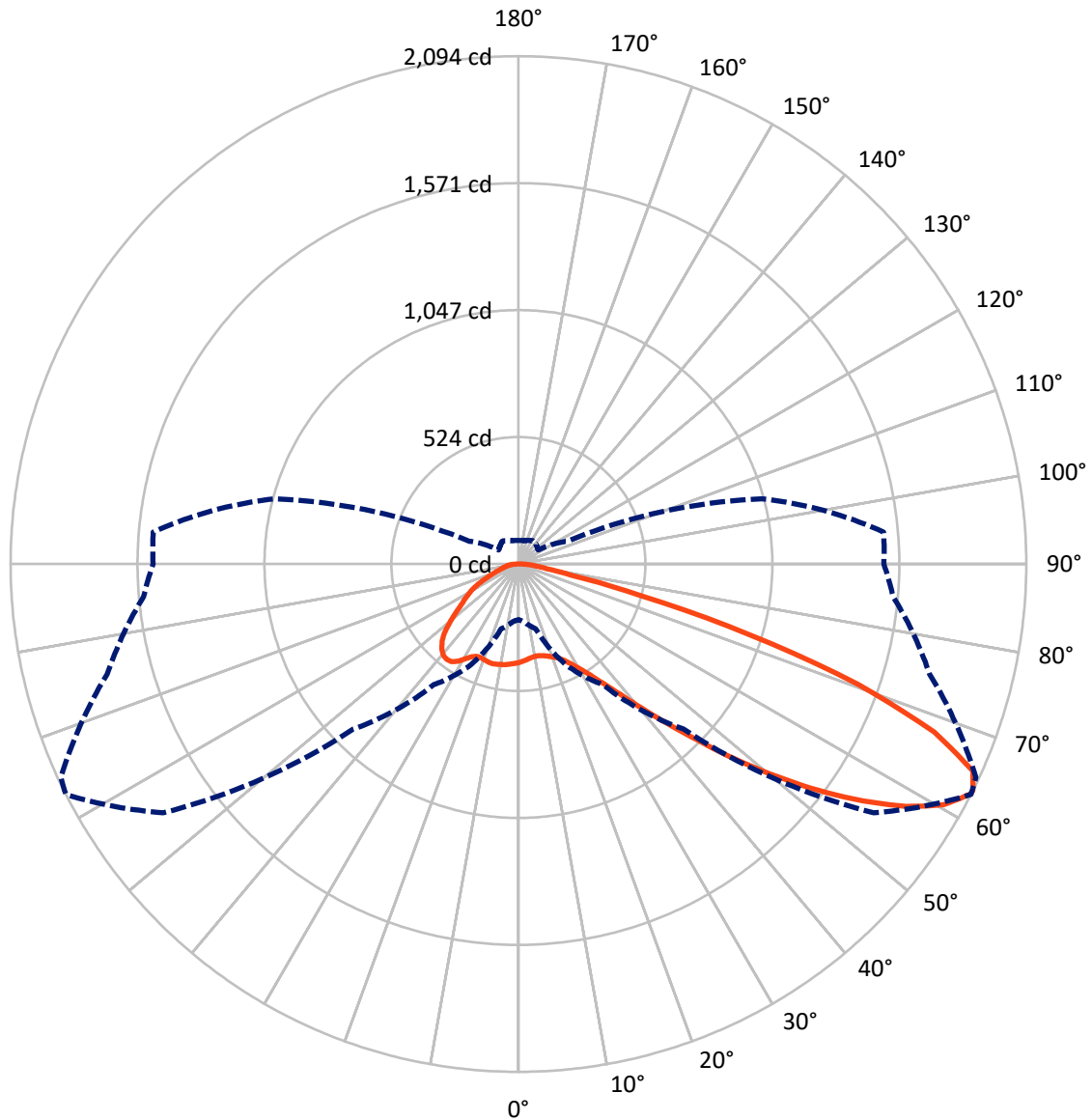
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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	886.4	0.0	886.4
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2218.6	0.0	2218.6
	% Fixture	71.5	0.0	71.5
Total	Lumens	3105.0	0.0	3105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.2
10°-20°	113.8	3.7
20°-30°	199.9	6.4
30°-40°	336.9	10.9
40°-50°	590.2	19.0
50°-60°	762.8	24.6
60°-70°	660.3	21.3
70°-80°	342.8	11.0
80°-90°	59.7	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°	3105.0	100.0
0°-180°	3105.0	100.0



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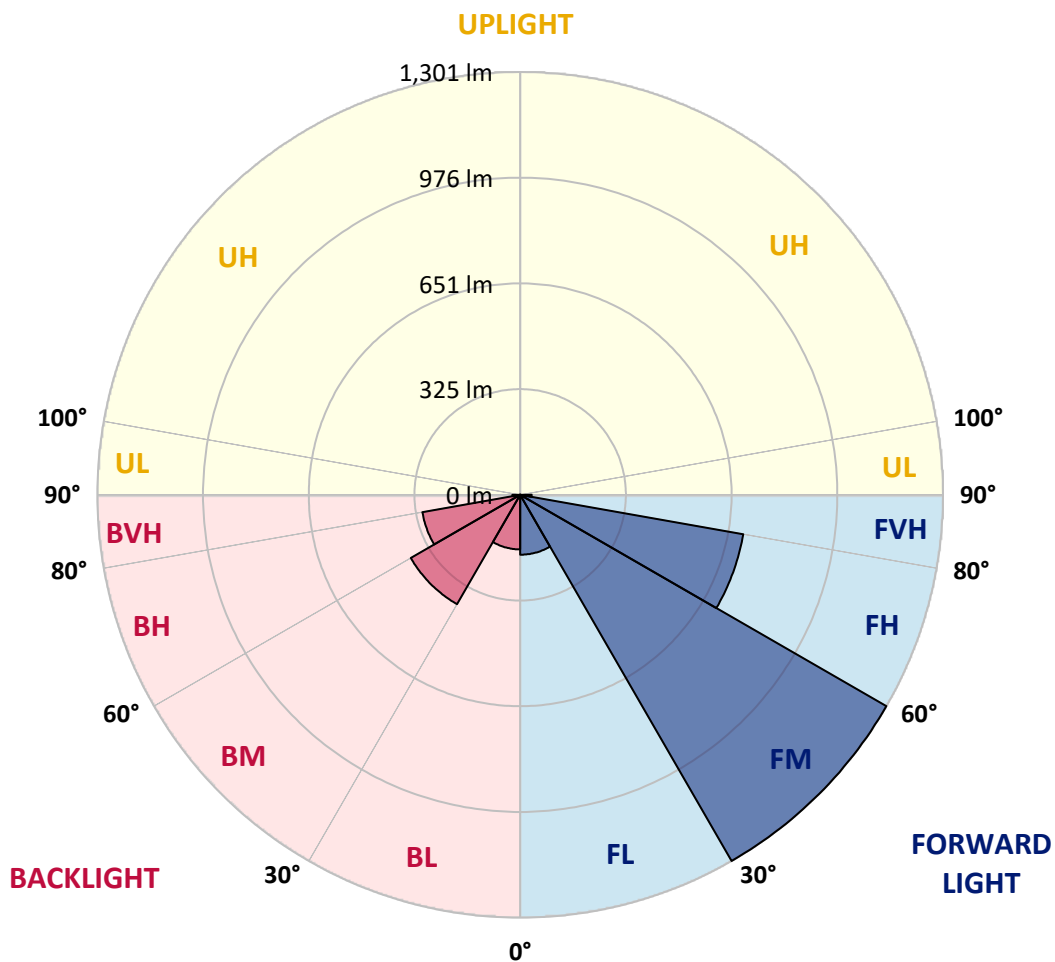
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.3	5.9			
FM	(30°-60°)	1301.4	41.9			
FH	(60°-80°)	697.3	22.5			G1/1800
FVH	(80°-90°)	35.6	1.1			G1/100
BL	(0°-30°)	167.9	5.4	B1/500		
BM	(30°-60°)	388.6	12.5	B1/1000		
BH	(60°-80°)	305.8	9.8	B1/500		G1/500
BVH	(80°-90°)	24.2	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°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	396.9	395.8	397.8	398.7	398.4	400.1	400.1	400.4	400.4	401.9	403.3
5°	385.3	384.7	386.8	388.2	389.4	392.0	393.7	394.6	395.5	397.5	401.0
7.5°	374.3	373.4	376.3	377.5	379.2	383.0	387.1	389.4	390.6	394.9	399.9
10°	365.3	365.0	367.3	368.5	370.5	376.0	381.8	386.8	387.6	393.5	398.1
12.5°	360.9	360.3	362.9	364.4	367.9	374.6	381.3	387.4	388.8	395.5	399.6
15°	364.4	365.0	367.3	367.6	371.7	378.6	386.2	392.3	393.7	400.4	403.3
17.5°	381.0	380.7	382.1	381.5	383.0	386.5	394.6	399.6	401.3	406.2	408.6
20°	410.9	410.0	411.2	407.4	401.0	399.3	404.2	409.7	410.3	413.2	411.8
22.5°	456.5	457.4	454.8	445.2	429.8	422.5	419.3	421.1	423.1	422.8	418.4
25°	516.1	519.0	514.1	497.2	471.3	454.5	442.9	440.2	441.7	437.6	430.9
27.5°	594.3	596.6	585.8	559.7	524.8	499.8	476.6	467.6	467.6	458.8	446.6
30°	680.3	681.7	664.6	631.5	591.1	553.9	519.6	502.1	500.7	483.5	464.4
32.5°	784.9	780.8	760.5	719.5	668.6	617.5	573.3	546.9	544.0	518.1	493.7
35°	920.0	920.0	877.9	831.1	769.2	704.1	646.0	605.0	602.1	572.8	541.1
37.5°	1066.8	1066.2	1028.1	963.6	889.5	809.9	732.3	681.1	674.5	643.1	607.6
40°	1212.9	1208.0	1177.2	1115.9	1036.8	945.9	838.9	779.4	776.2	731.4	687.0
42.5°	1319.9	1315.2	1300.7	1259.7	1207.7	1142.0	977.5	897.1	892.4	836.0	781.7
45°	1378.8	1372.2	1370.1	1370.7	1376.5	1376.2	1148.7	1036.2	1020.0	954.6	882.2
47.5°	1365.5	1349.8	1370.7	1424.5	1514.8	1574.1	1348.0	1201.6	1171.4	1077.8	989.5
50°	1257.7	1250.1	1294.9	1404.4	1590.1	1729.3	1567.4	1373.3	1330.6	1194.3	1090.9
52.5°	1068.5	1083.0	1138.2	1294.0	1576.5	1823.2	1766.8	1551.8	1492.5	1305.3	1178.9
55°	850.6	868.9	946.7	1111.8	1450.0	1824.3	1910.6	1724.7	1671.8	1420.1	1269.0
57.5°	619.0	644.8	742.2	893.6	1228.3	1699.7	1981.5	1886.5	1826.1	1533.2	1357.1
60°	388.8	407.1	513.2	688.7	938.9	1424.5	1963.8	2016.1	1966.1	1639.8	1457.6
62.5°	250.5	259.2	305.1	491.7	654.7	1044.7	1832.8	2090.5	2069.0	1737.1	1533.4
63°	229.6	237.1	276.4	454.5	607.0	962.4	1788.6	2094.3	2081.5	1755.5	1551.2
65°	164.2	172.3	192.7	312.4	448.1	645.7	1532.6	2059.1	2073.4	1786.0	1575.3
67.5°	129.6	132.2	141.5	189.8	317.9	366.7	1031.3	1849.0	1911.5	1753.4	1539.5
70°	115.9	118.0	128.4	145.6	240.6	237.7	537.9	1486.7	1616.0	1642.4	1449.5
72.5°	101.1	102.6	115.4	137.2	183.7	181.6	233.9	999.6	1156.8	1439.0	1324.8
75°	83.7	85.1	95.9	121.8	155.5	143.6	146.5	522.5	663.1	1128.1	1161.8
77.5°	68.9	69.7	78.7	97.9	136.9	110.7	113.3	219.7	322.3	768.9	917.4
80°	50.0	50.3	58.7	74.4	104.6	100.0	84.3	119.7	146.2	421.4	577.1
82.5°	34.9	35.2	43.9	52.0	72.1	99.7	61.3	80.2	87.8	194.1	256.9
85°	24.4	23.8	29.9	34.3	45.6	60.4	46.8	51.4	54.3	84.0	69.2
87.5°	10.8	10.5	16.9	18.3	23.0	27.9	37.2	27.0	28.8	40.7	21.8
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°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	403.6	404.8	406.5	409.2	411.2	412.1	413.8	414.1	416.7	414.4	414.7
5°	403.0	404.5	408.3	412.9	416.1	418.4	422.8	424.3	426.9	425.7	425.4
7.5°	402.2	404.8	410.3	417.0	421.9	425.7	429.8	432.4	435.0	434.4	433.9
10°	401.0	404.2	412.1	418.7	425.7	429.8	432.7	433.0	433.9	433.3	431.8
12.5°	401.9	405.4	414.4	421.1	428.3	431.2	430.4	426.0	422.2	419.0	418.4
15°	404.8	408.9	417.3	423.4	429.2	427.5	422.2	412.6	405.7	401.6	401.9
17.5°	407.7	411.2	417.6	422.5	425.4	420.2	412.1	403.9	400.7	397.5	396.9
20°	410.3	410.9	415.0	419.3	419.0	415.0	407.4	397.5	391.1	385.9	386.2
22.5°	414.4	412.1	412.3	415.0	418.2	414.4	396.7	379.5	369.9	363.8	363.5
25°	423.7	418.7	414.1	415.5	427.7	403.6	373.7	351.3	342.9	337.4	338.0
27.5°	436.5	429.8	420.5	428.3	435.0	382.4	340.9	317.9	312.1	306.3	307.7
30°	450.4	440.8	429.5	455.9	426.9	348.7	300.2	279.3	274.0	268.5	269.7
32.5°	475.4	461.2	446.3	489.1	408.0	307.7	257.5	238.6	235.1	231.6	231.9
35°	517.0	500.1	484.1	514.3	383.6	265.0	219.1	205.7	202.8	198.8	198.8
37.5°	578.3	551.8	543.4	527.7	350.2	225.2	190.9	181.9	175.8	170.3	170.3
40°	649.5	618.1	611.4	531.8	306.6	192.1	171.2	163.3	155.2	147.0	147.6
42.5°	736.1	693.6	678.2	526.3	253.7	170.9	157.2	148.2	140.4	133.4	132.2
45°	833.7	779.9	741.0	510.3	205.7	157.8	148.2	137.4	127.6	121.5	120.3
47.5°	933.4	873.5	796.5	478.3	172.0	148.5	142.1	127.0	120.0	115.9	115.4
50°	1028.7	966.2	842.4	428.0	152.6	141.8	133.1	122.0	116.2	112.7	112.5
52.5°	1113.3	1054.3	881.1	376.0	139.5	136.3	129.0	119.7	113.6	110.4	109.8
55°	1193.7	1143.5	919.4	329.5	128.2	127.0	127.0	117.4	110.7	107.8	107.2
57.5°	1282.1	1244.9	958.1	295.5	118.0	120.3	124.4	114.8	107.5	104.9	104.6
60°	1384.1	1362.3	998.8	265.6	109.0	113.0	120.6	111.3	103.7	101.7	101.1
62.5°	1488.4	1489.0	1033.9	229.6	101.4	107.5	116.2	108.1	100.3	98.8	98.5
63°	1506.7	1511.9	1038.9	221.7	99.7	106.4	115.1	106.9	99.4	97.9	97.6
65°	1551.8	1574.7	1042.9	188.6	93.3	102.0	110.7	103.2	95.6	95.3	94.7
67.5°	1541.0	1578.5	1017.6	147.9	86.0	95.9	104.6	97.6	91.0	91.0	89.8
70°	1460.8	1485.2	940.1	114.2	80.5	89.5	97.3	91.8	84.9	85.4	83.1
72.5°	1337.9	1311.1	773.3	89.2	73.8	82.2	88.9	84.3	78.2	77.6	75.0
75°	1157.7	1069.7	553.9	72.1	65.7	72.6	79.6	76.1	70.6	67.4	66.8
77.5°	882.2	759.3	331.9	61.0	58.7	64.5	68.9	66.3	61.9	58.1	58.4
80°	525.4	437.9	149.7	51.7	50.9	55.2	58.7	56.7	53.8	49.1	47.9
82.5°	212.7	169.4	67.1	41.8	43.0	46.2	49.4	47.7	45.3	44.2	37.5
85°	55.2	53.2	39.2	31.4	33.1	34.6	38.9	38.9	36.9	30.2	27.9
87.5°	15.7	20.9	21.8	19.8	22.4	22.7	27.0	27.0	27.6	18.6	16.9
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)