

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: P348921

Luminaire Tested: **ARCH-N-PA1-30-727-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348921
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-PA1-30-727-U-T2U
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: 3667 lumens
Efficiency: N/A
Efficacy: 118.3 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

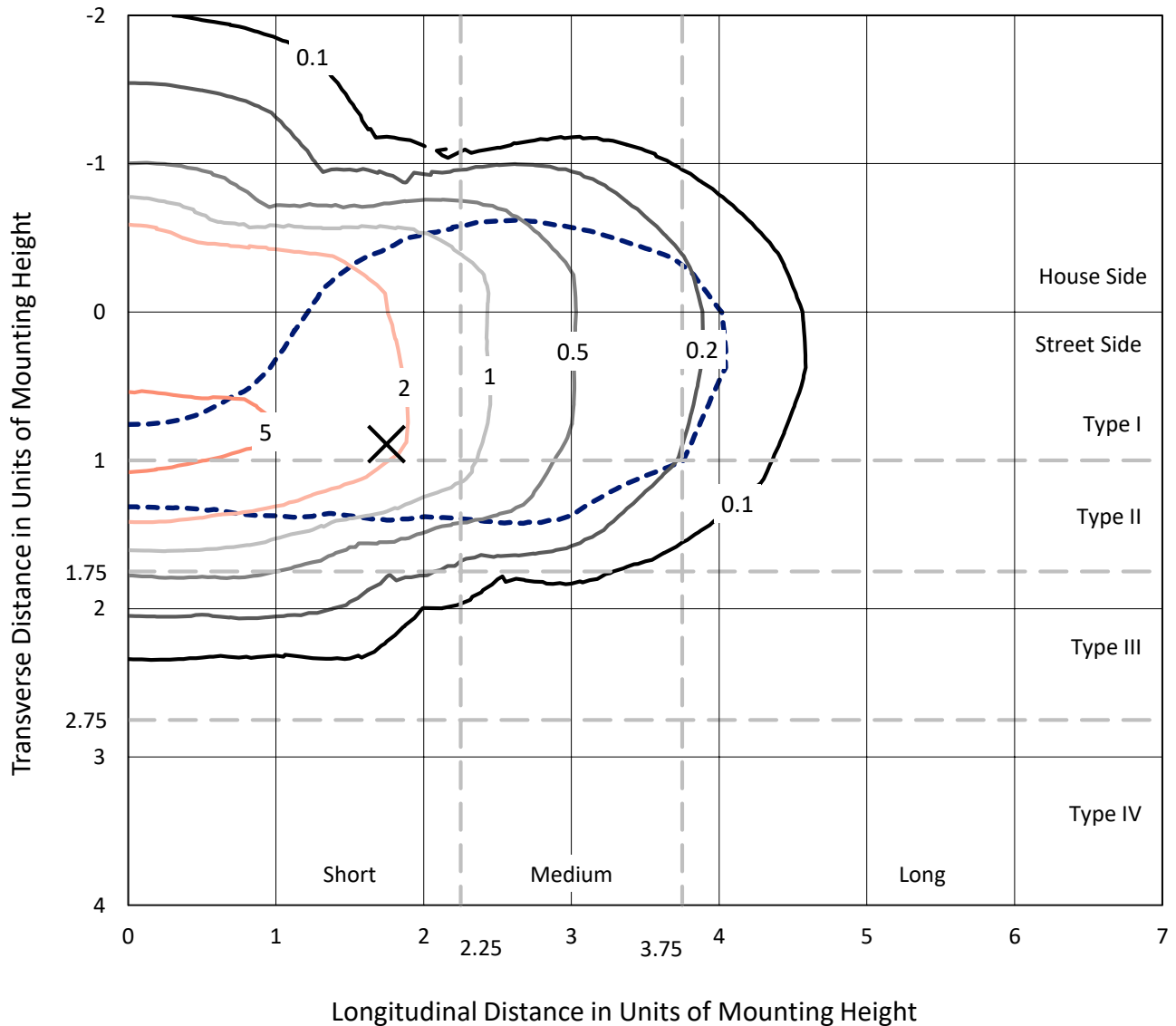
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

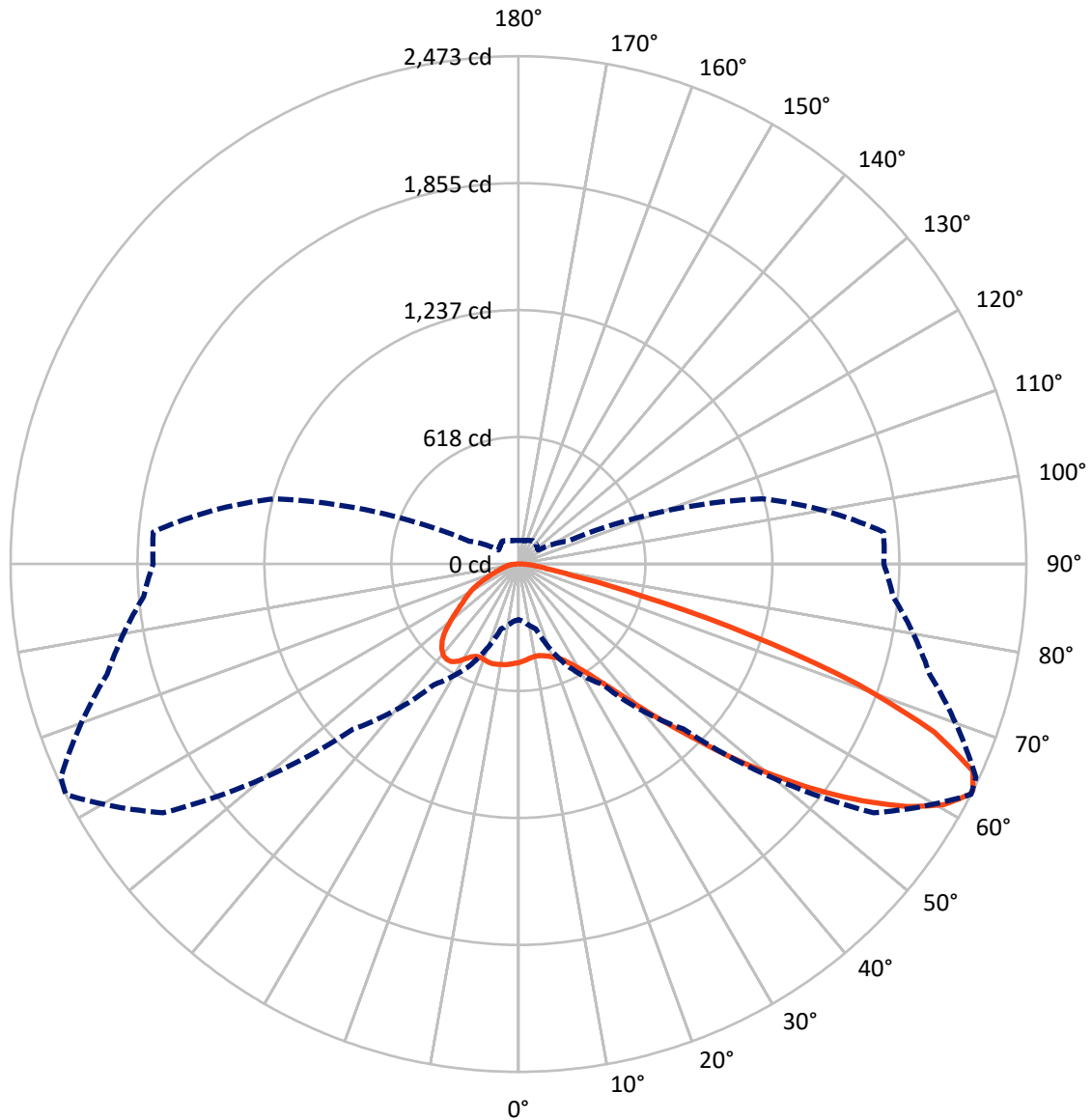
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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	1046.9	0.0	1046.9
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2620.1	0.0	2620.1
	% Fixture	71.5	0.0	71.5
Total	Lumens	3667.0	0.0	3667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.2
10°-20°	134.4	3.7
20°-30°	236.1	6.4
30°-40°	397.9	10.9
40°-50°	697.0	19.0
50°-60°	900.9	24.6
60°-70°	779.8	21.3
70°-80°	404.8	11.0
80°-90°	70.5	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°	3667.0	100.0
0°-180°	3667.0	100.0

Coefficient of Utilization



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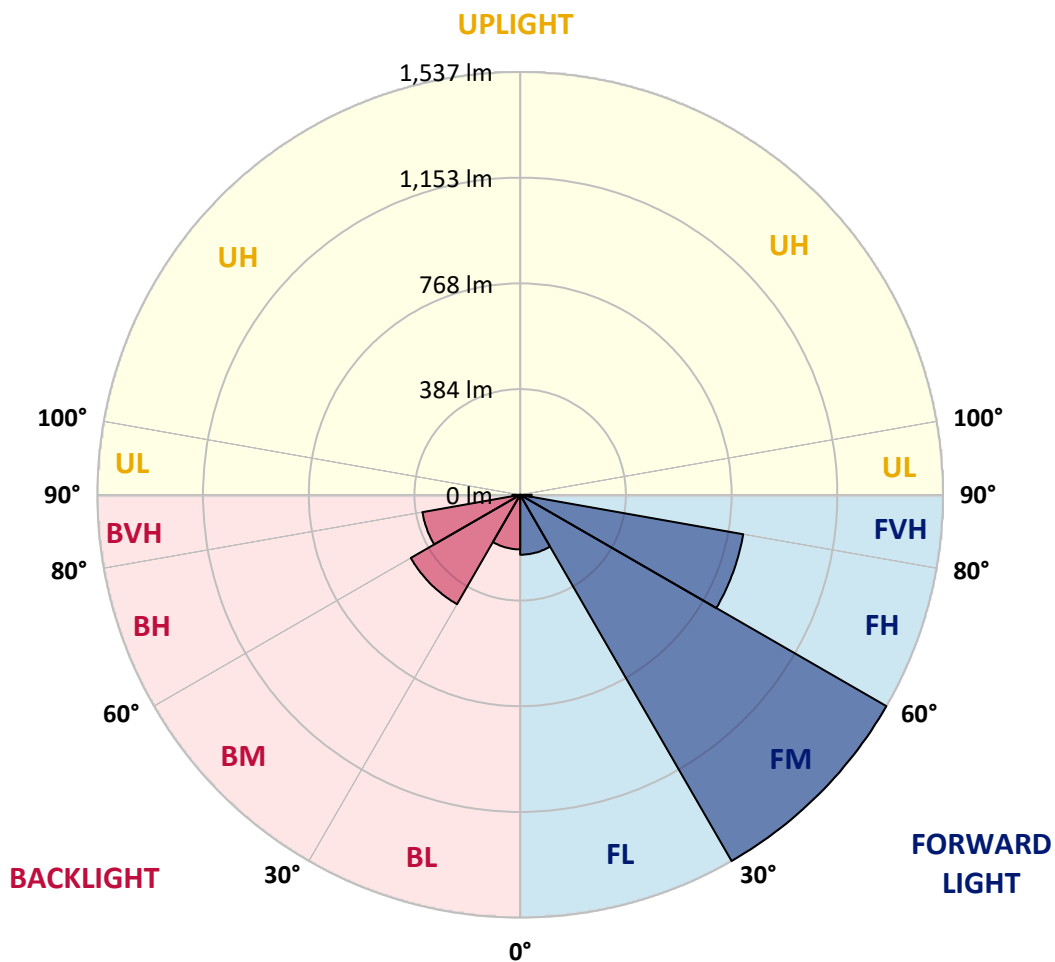
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.7	5.9			
FM	(30°-60°)	1536.9	41.9			
FH	(60°-80°)	823.5	22.5			G1/1800
FVH	(80°-90°)	42.0	1.1			G1/100
BL	(0°-30°)	198.3	5.4	B1/500		
BM	(30°-60°)	458.9	12.5	B1/1000		
BH	(60°-80°)	361.1	9.8	B1/500		G1/500
BVH	(80°-90°)	28.5	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°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	468.8	467.4	469.8	470.9	470.5	472.6	472.6	472.9	472.9	474.6	476.3
5°	455.1	454.4	456.8	458.5	459.9	463.0	465.0	466.0	467.1	469.5	473.6
7.5°	442.0	441.0	444.4	445.8	447.9	452.3	457.1	459.9	461.2	466.4	472.2
10°	431.4	431.0	433.8	435.2	437.6	444.1	450.9	456.8	457.8	464.7	470.2
12.5°	426.2	425.6	428.6	430.4	434.5	442.4	450.3	457.5	459.2	467.1	471.9
15°	430.4	431.0	433.8	434.1	438.9	447.2	456.1	463.3	465.0	472.9	476.3
17.5°	449.9	449.6	451.3	450.6	452.3	456.4	466.0	471.9	473.9	479.8	482.5
20°	485.3	484.2	485.6	481.1	473.6	471.5	477.4	483.9	484.6	488.0	486.3
22.5°	539.1	540.2	537.1	525.8	507.6	499.0	495.2	497.3	499.7	499.3	494.2
25°	609.5	612.9	607.1	587.2	556.6	536.7	523.0	519.9	521.6	516.8	508.9
27.5°	701.8	704.6	691.9	661.0	619.8	590.3	562.8	552.2	552.2	541.9	527.5
30°	803.4	805.1	784.9	745.7	698.0	654.1	613.6	593.0	591.3	571.1	548.4
32.5°	926.9	922.1	898.1	849.7	789.7	729.3	677.1	645.9	642.4	611.9	583.1
35°	1086.5	1086.5	1036.8	981.5	908.4	831.5	762.9	714.5	711.1	676.4	639.0
37.5°	1259.8	1259.2	1214.2	1138.0	1050.5	956.5	864.8	804.4	796.5	759.5	717.6
40°	1432.5	1426.6	1390.2	1317.8	1224.5	1117.1	990.8	920.4	916.7	863.8	811.3
42.5°	1558.8	1553.3	1536.1	1487.7	1426.3	1348.7	1154.5	1059.4	1053.9	987.3	923.2
45°	1628.4	1620.5	1618.1	1618.8	1625.7	1625.3	1356.6	1223.8	1204.6	1127.4	1041.9
47.5°	1612.6	1594.1	1618.8	1682.3	1789.0	1859.0	1592.0	1419.1	1383.4	1272.9	1168.5
50°	1485.3	1476.4	1529.2	1658.6	1877.9	2042.3	1851.1	1621.9	1571.4	1410.5	1288.3
52.5°	1261.9	1279.1	1344.3	1528.2	1861.8	2153.2	2086.6	1832.6	1762.6	1541.6	1392.3
55°	1004.5	1026.1	1118.1	1313.0	1712.5	2154.5	2256.4	2036.8	1974.4	1677.2	1498.7
57.5°	731.0	761.5	876.5	1055.3	1450.6	2007.3	2340.2	2228.0	2156.6	1810.7	1602.7
60°	459.2	480.8	606.1	813.4	1108.8	1682.3	2319.3	2381.0	2322.0	1936.6	1721.4
62.5°	295.8	306.1	360.3	580.7	773.2	1233.8	2164.5	2468.9	2443.5	2051.6	1811.0
63°	271.1	280.0	326.4	536.7	716.9	1136.6	2112.3	2473.3	2458.2	2073.2	1831.9
65°	193.9	203.5	227.5	368.9	529.2	762.6	1810.0	2431.8	2448.6	2109.2	1860.4
67.5°	153.1	156.1	167.1	224.1	375.4	433.1	1218.0	2183.7	2257.5	2070.8	1818.2
70°	136.9	139.3	151.7	171.9	284.2	280.7	635.2	1755.7	1908.5	1939.7	1711.8
72.5°	119.4	121.1	136.2	162.0	216.9	214.5	276.3	1180.6	1366.2	1699.5	1564.6
75°	98.8	100.6	113.3	143.8	183.6	169.5	173.0	617.0	783.2	1332.2	1372.1
77.5°	81.3	82.4	93.0	115.7	161.6	130.8	133.8	259.4	380.6	908.1	1083.4
80°	59.0	59.4	69.3	87.9	123.5	118.1	99.5	141.4	172.6	497.6	681.6
82.5°	41.2	41.5	51.8	61.4	85.1	117.7	72.4	94.7	103.6	229.2	303.4
85°	28.8	28.1	35.3	40.5	53.9	71.4	55.3	60.7	64.2	99.2	81.7
87.5°	12.7	12.4	19.9	21.6	27.1	32.9	43.9	31.9	34.0	48.0	25.7
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°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	476.7	478.1	480.1	483.2	485.6	486.6	488.7	489.0	492.1	489.4	489.7
5°	476.0	477.7	482.2	487.7	491.4	494.2	499.3	501.1	504.1	502.8	502.4
7.5°	475.0	478.1	484.6	492.5	498.3	502.8	507.6	510.7	513.7	513.1	512.4
10°	473.6	477.4	486.6	494.5	502.8	507.6	511.0	511.3	512.4	511.7	510.0
12.5°	474.6	478.7	489.4	497.3	505.9	509.3	508.3	503.1	498.6	494.9	494.2
15°	478.1	482.9	492.8	500.0	506.9	504.8	498.6	487.3	479.1	474.3	474.6
17.5°	481.5	485.6	493.2	499.0	502.4	496.2	486.6	477.0	473.3	469.5	468.8
20°	484.6	485.3	490.1	495.2	494.9	490.1	481.1	469.5	461.9	455.8	456.1
22.5°	489.4	486.6	487.0	490.1	493.8	489.4	468.4	448.2	436.9	429.7	429.3
25°	500.4	494.5	489.0	490.8	505.2	476.7	441.3	414.9	405.0	398.4	399.1
27.5°	515.5	507.6	496.6	505.9	513.7	451.6	402.6	375.4	368.6	361.7	363.4
30°	531.9	520.6	507.2	538.5	504.1	411.8	354.5	329.8	323.6	317.1	318.5
32.5°	561.5	544.6	527.1	577.6	481.8	363.4	304.1	281.8	277.6	273.5	273.9
35°	610.5	590.6	571.7	607.4	453.0	313.0	258.8	243.0	239.5	234.7	234.7
37.5°	682.9	651.7	641.8	623.2	413.5	266.0	225.5	214.8	207.6	201.1	201.1
40°	767.0	730.0	722.1	628.0	362.1	226.8	202.1	192.9	183.3	173.7	174.3
42.5°	869.3	819.2	801.0	621.5	299.6	201.8	185.7	175.0	165.8	157.5	156.1
45°	984.6	921.1	875.1	602.6	243.0	186.4	175.0	162.3	150.7	143.5	142.1
47.5°	1102.3	1031.6	940.7	564.9	203.2	175.4	167.8	150.0	141.7	136.9	136.2
50°	1214.9	1141.1	994.9	505.5	180.2	167.5	157.2	144.1	137.3	133.2	132.8
52.5°	1314.7	1245.1	1040.5	444.1	164.7	161.0	152.4	141.4	134.2	130.4	129.7
55°	1409.8	1350.4	1085.8	389.2	151.3	150.0	150.0	138.6	130.8	127.3	126.6
57.5°	1514.1	1470.2	1131.5	349.0	139.3	142.1	146.9	135.6	127.0	123.9	123.5
60°	1634.6	1608.9	1179.5	313.7	128.7	133.5	142.4	131.4	122.5	120.1	119.4
62.5°	1757.8	1758.5	1221.1	271.1	119.8	127.0	137.3	127.7	118.4	116.7	116.3
63°	1779.4	1785.6	1226.9	261.9	117.7	125.6	135.9	126.3	117.4	115.7	115.3
65°	1832.6	1859.7	1231.7	222.7	110.2	120.5	130.8	121.8	112.9	112.6	111.9
67.5°	1819.9	1864.2	1201.8	174.7	101.6	113.3	123.5	115.3	107.4	107.4	106.0
70°	1725.2	1754.0	1110.2	134.9	95.1	105.7	115.0	108.4	100.2	100.9	98.2
72.5°	1580.0	1548.5	913.2	105.4	87.2	97.1	105.0	99.5	92.3	91.6	88.5
75°	1367.3	1263.3	654.1	85.1	77.6	85.8	94.0	89.9	83.4	79.6	78.9
77.5°	1041.9	896.7	391.9	72.1	69.3	76.2	81.3	78.2	73.1	68.6	69.0
80°	620.5	517.2	176.7	61.1	60.1	65.2	69.3	66.9	63.5	58.0	56.6
82.5°	251.2	200.1	79.3	49.4	50.8	54.6	58.3	56.3	53.5	52.2	44.3
85°	65.2	62.8	46.3	37.1	39.1	40.8	46.0	46.0	43.6	35.7	32.9
87.5°	18.5	24.7	25.7	23.3	26.4	26.8	31.9	31.9	32.6	22.0	19.9
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)