

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: P397696

Luminaire Tested: **ARCH-S-PA1-30-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

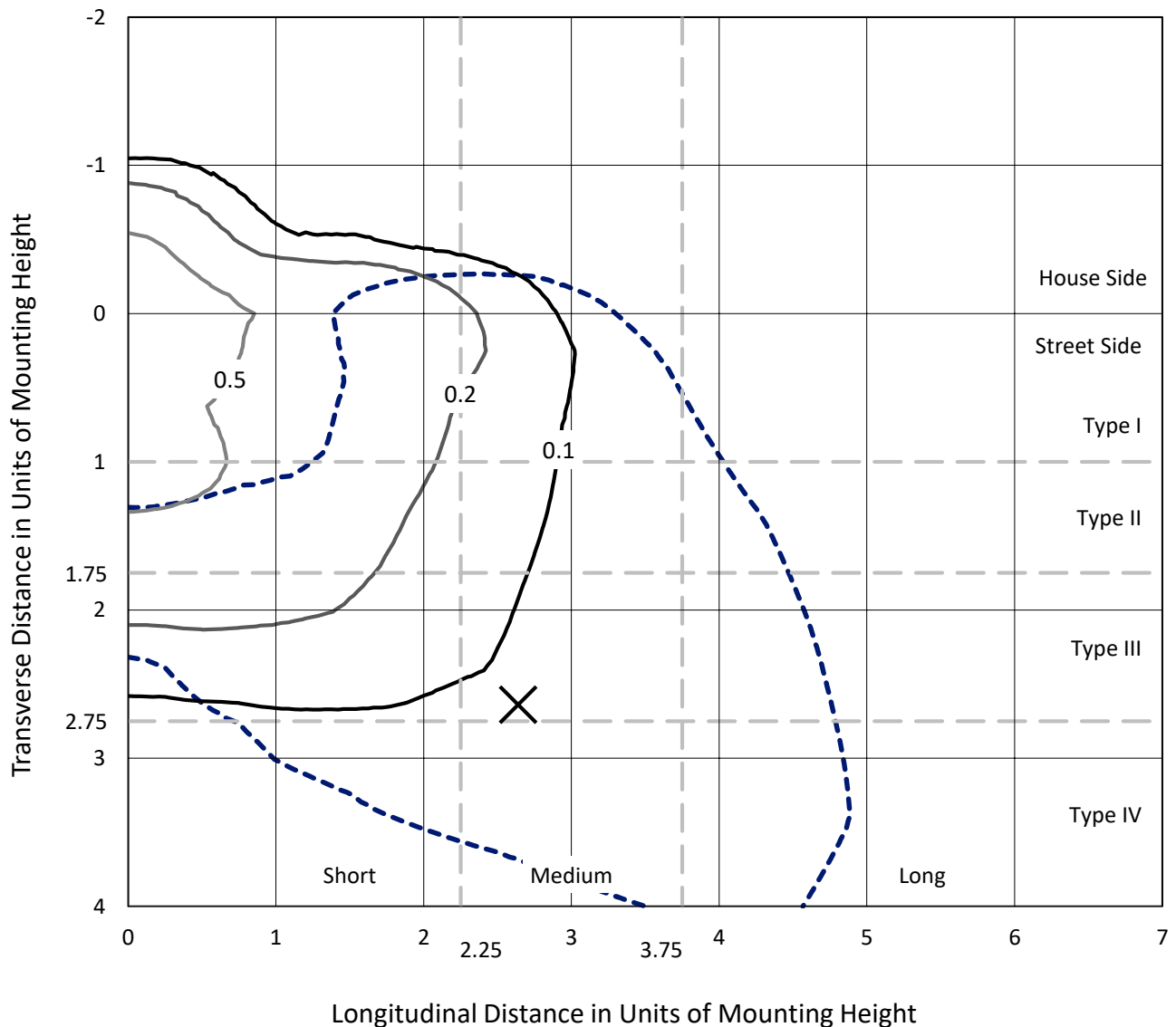
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

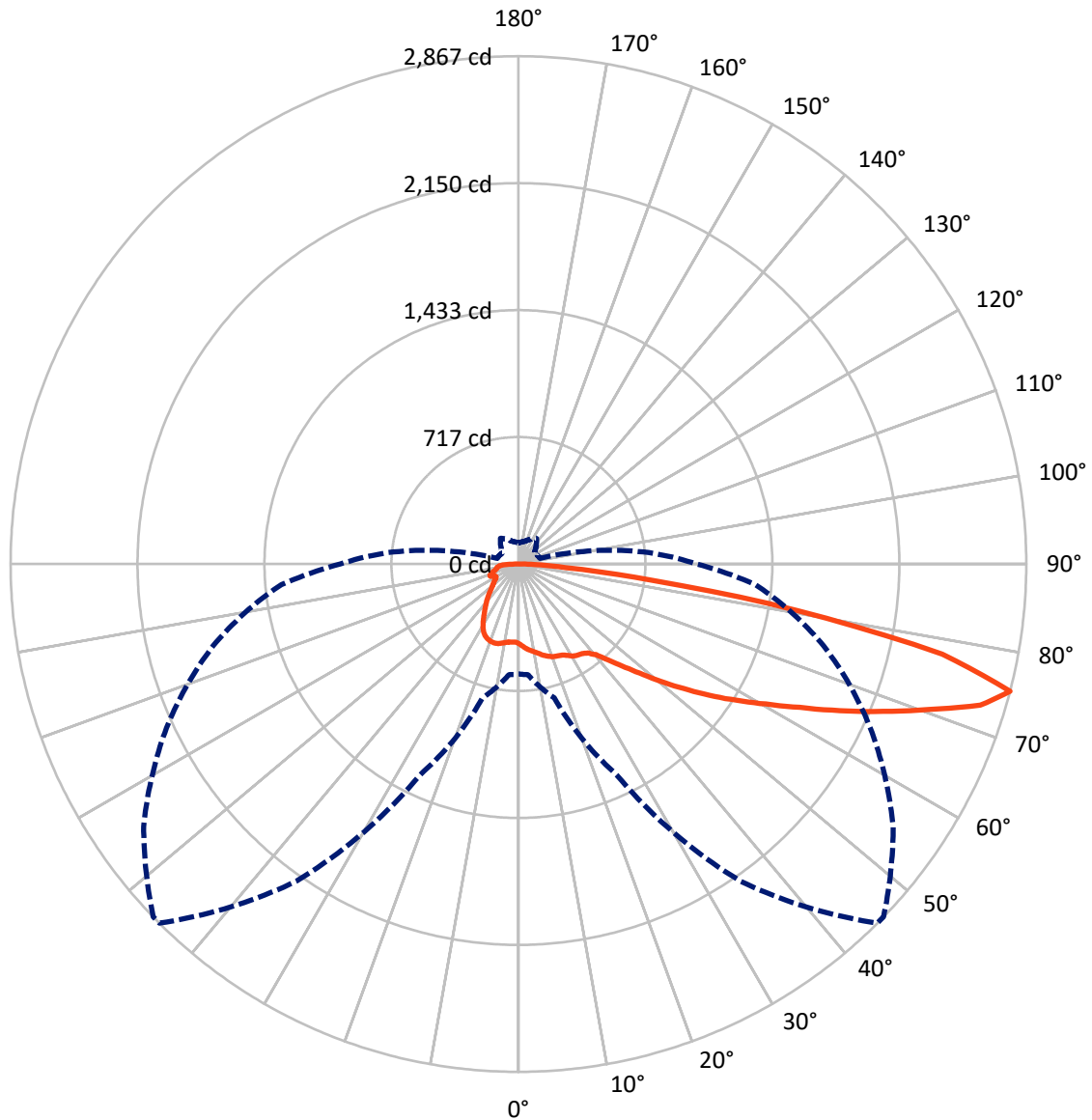
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.9	0.0	945.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	3334.1	0.0	3334.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	4280.0	0.0	4280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.0
10°-20°	141.5	3.3
20°-30°	241.2	5.6
30°-40°	337.9	7.9
40°-50°	496.5	11.6
50°-60°	790.1	18.5
60°-70°	1124.0	26.3
70°-80°	941.1	22.0
80°-90°	163.3	3.8
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°	4280.0	100.0
0°-180°	4280.0	100.0

Coefficient of Utilization



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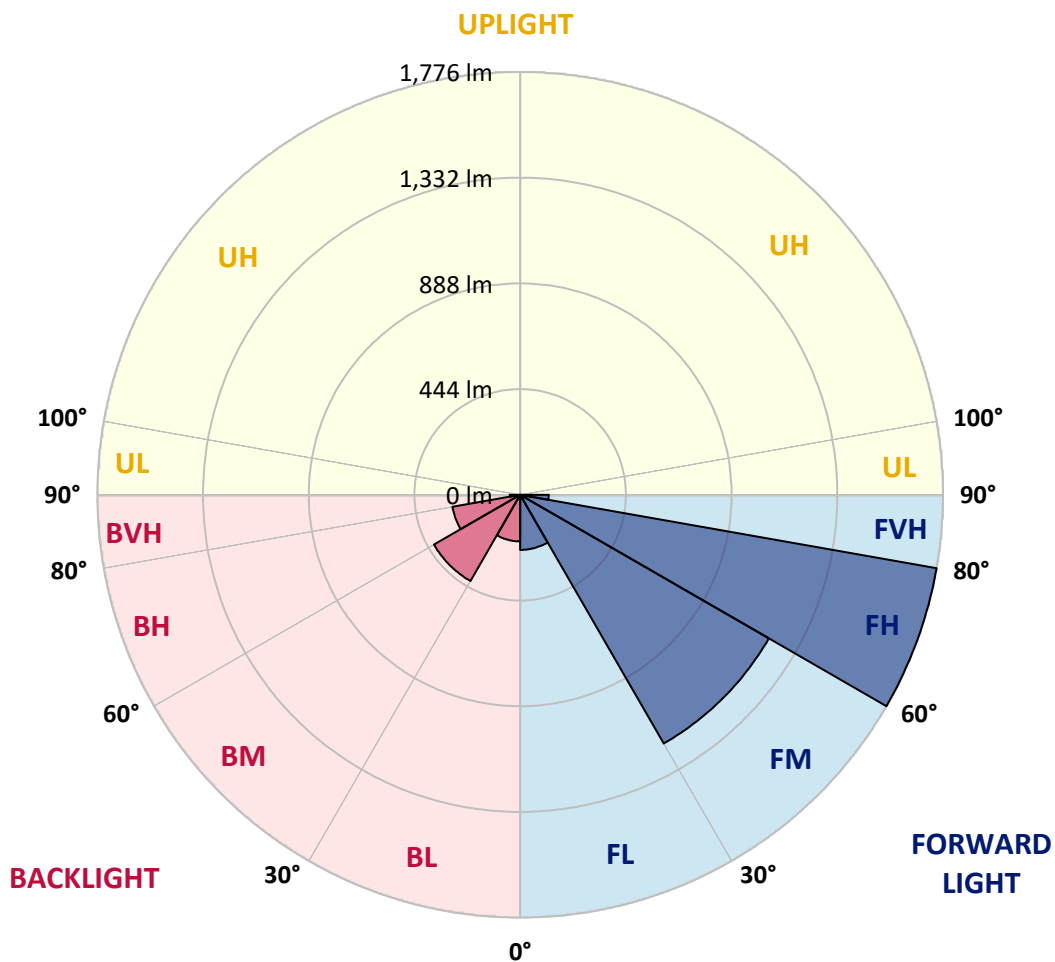
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.4	5.4			
FM	(30°-60°)	1206.4	28.2			
FH	(60°-80°)	1776.3	41.5			G1/1800
FVH	(80°-90°)	120.1	2.8			G2/225
BL	(0°-30°)	195.8	4.6	B1/500		
BM	(30°-60°)	418.1	9.8	B1/1000		
BH	(60°-80°)	288.7	6.7	B1/500		G1/500
BVH	(80°-90°)	43.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	475.2	472.9	471.8	471.8	467.2	464.4	463.8	459.8	456.4	452.9	450.1
5°	502.7	501.0	497.5	494.7	488.4	480.4	479.2	470.7	462.1	454.1	447.2
7.5°	527.8	524.4	520.4	514.7	504.4	493.5	491.8	479.8	467.8	455.8	446.6
10°	549.0	545.6	539.8	531.8	518.7	505.5	503.8	491.2	478.7	464.4	451.2
12.5°	569.0	566.2	557.6	546.7	531.3	519.3	517.5	506.7	493.5	477.5	460.4
15°	586.2	583.3	574.2	561.6	543.9	534.7	532.4	522.1	509.0	491.8	474.1
17.5°	594.7	594.7	585.0	571.3	554.7	547.9	546.1	533.6	521.5	505.0	487.2
20°	597.6	598.8	591.9	575.3	561.0	558.1	556.4	546.1	532.4	516.4	499.8
22.5°	599.3	601.6	595.9	577.0	565.0	563.3	562.2	555.3	544.4	529.0	512.4
25°	605.0	605.0	601.0	579.9	570.2	569.6	569.6	565.6	558.1	545.0	528.4
27.5°	613.6	613.0	607.9	586.2	581.6	583.3	582.7	582.2	577.0	563.9	546.1
30°	627.9	627.9	622.2	598.8	595.9	603.3	603.9	605.0	597.0	576.4	562.2
32.5°	649.6	647.4	641.6	611.3	606.8	613.6	614.8	614.2	607.3	587.9	581.0
35°	716.6	711.4	690.8	639.4	616.5	620.5	621.1	623.9	625.1	609.6	606.2
37.5°	833.8	826.9	795.5	705.7	647.4	637.6	637.1	644.5	650.8	637.1	637.1
40°	961.3	955.6	937.3	820.1	704.5	672.5	670.2	677.1	685.1	675.4	678.2
42.5°	1071.1	1075.7	1077.4	941.3	790.3	737.7	731.4	721.7	734.3	725.7	737.1
45°	1153.5	1151.2	1182.6	1065.4	901.3	819.5	810.9	784.6	800.6	800.1	825.2
47.5°	1241.0	1237.0	1250.1	1182.1	1027.7	919.6	906.4	867.5	891.6	908.1	949.9
50°	1323.9	1325.0	1329.6	1274.1	1164.9	1041.4	1024.8	972.8	1007.1	1042.0	1100.9
52.5°	1432.0	1424.0	1418.2	1381.6	1318.7	1168.3	1157.5	1098.0	1146.0	1187.2	1265.6
55°	1526.3	1521.2	1517.8	1516.0	1447.4	1308.4	1297.0	1235.2	1304.4	1333.6	1449.1
57.5°	1627.0	1624.1	1642.4	1671.6	1644.1	1450.8	1438.8	1379.4	1456.6	1477.2	1648.1
60°	1700.8	1702.5	1752.8	1827.1	1808.3	1605.3	1591.0	1538.3	1604.7	1623.0	1847.2
62.5°	1701.3	1718.5	1835.1	1968.4	1990.1	1783.1	1766.5	1709.3	1756.8	1756.8	2025.6
65°	1538.9	1558.4	1820.3	2003.3	2174.3	1994.7	1978.7	1888.9	1906.6	1882.6	2193.1
67.5°	1377.1	1399.9	1646.4	2006.1	2303.5	2221.2	2202.3	2068.5	2038.2	1977.5	2310.4
70°	1269.6	1285.6	1491.4	1969.0	2381.3	2457.9	2443.6	2238.9	2141.7	2057.0	2285.8
72.5°	1068.8	1063.1	1259.8	1792.3	2424.7	2726.7	2714.7	2424.2	2231.5	2019.3	1949.5
75°	620.5	627.3	781.8	1313.0	2185.7	2866.8	2865.7	2582.6	2192.0	1783.7	1343.3
77.5°	179.0	184.1	256.8	577.0	1382.2	2445.3	2523.7	2361.8	1852.9	1271.3	696.5
80°	78.3	82.3	111.5	192.1	595.3	1597.2	1665.9	1597.2	1117.4	583.3	273.4
82.5°	46.3	49.2	72.6	118.9	285.4	760.0	852.7	744.6	482.1	247.6	113.2
85°	26.3	27.4	41.7	75.5	179.6	265.9	298.5	279.6	235.0	140.7	59.5
87.5°	12.0	12.6	20.6	35.5	100.6	89.8	93.2	123.5	136.1	85.8	29.7
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°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
2.5°	448.9	447.2	443.8	442.6	440.9	441.5	442.1	442.1	442.6	440.9	440.9
5°	444.3	441.5	438.1	438.1	438.1	442.6	446.6	448.9	450.1	450.1	448.9
7.5°	442.6	439.2	435.2	436.3	437.5	443.2	450.6	458.1	460.4	460.4	459.2
10°	446.1	442.6	439.8	441.5	444.3	448.9	454.6	461.5	467.2	467.8	467.2
12.5°	454.1	450.1	447.2	450.6	454.1	456.9	459.8	462.6	470.1	471.2	471.2
15°	467.2	463.2	459.8	462.6	463.8	463.8	463.8	463.8	471.2	472.4	472.4
17.5°	480.4	476.9	473.5	474.1	470.7	466.1	464.4	463.8	467.8	471.2	471.8
20°	493.0	490.1	486.7	480.9	472.4	463.8	460.9	460.9	463.2	468.4	468.4
22.5°	506.7	503.2	497.5	484.4	470.1	458.1	455.2	456.9	459.8	466.6	466.1
25°	522.1	517.5	507.8	483.2	462.6	448.3	448.9	454.1	459.2	466.6	466.6
27.5°	539.3	533.0	513.5	474.1	446.1	432.3	437.5	449.5	456.9	464.9	466.1
30°	558.1	552.4	518.1	458.1	419.2	406.6	419.2	438.6	450.1	457.5	459.2
32.5°	581.0	576.4	522.1	437.5	384.3	373.4	391.7	415.8	434.1	442.6	444.3
35°	609.6	605.0	527.3	414.0	351.7	340.3	356.8	381.4	405.5	416.3	419.8
37.5°	646.8	639.9	531.8	388.9	324.3	311.1	319.1	341.4	363.1	378.0	382.0
40°	694.3	683.4	535.8	360.3	300.2	285.4	288.2	299.1	311.7	324.8	330.0
42.5°	761.2	739.4	536.4	330.0	275.6	261.9	260.8	264.2	264.2	264.2	265.9
45°	854.4	813.2	537.6	301.4	250.5	236.2	232.8	231.6	223.0	206.4	205.3
47.5°	972.2	909.9	542.7	277.4	224.2	211.6	207.0	202.4	186.4	169.3	165.8
50°	1123.2	1021.9	553.0	254.5	201.9	193.3	187.6	176.7	159.0	145.8	142.4
52.5°	1297.0	1155.2	562.7	230.5	185.3	179.6	172.7	159.6	140.7	132.7	131.5
55°	1496.6	1303.9	582.2	209.3	171.0	167.0	160.7	148.1	133.8	128.1	127.5
57.5°	1700.8	1470.3	609.6	190.4	157.3	155.0	155.0	144.1	135.0	132.7	132.7
60°	1897.5	1613.3	588.5	172.7	144.7	145.8	156.7	153.8	147.0	149.8	151.5
62.5°	2050.2	1697.3	477.5	158.4	135.5	145.8	173.8	173.8	165.8	164.7	164.7
65°	2115.4	1696.2	335.7	147.5	132.1	160.1	193.9	184.7	163.6	155.5	153.8
67.5°	2098.8	1621.8	231.6	140.1	131.0	175.0	203.0	177.3	153.3	146.4	141.3
70°	1953.0	1464.6	178.4	133.2	129.2	168.7	200.2	168.7	145.3	139.0	134.4
72.5°	1575.5	1174.6	148.1	126.4	122.4	156.1	190.4	160.7	139.0	132.1	127.5
75°	1004.8	738.9	125.2	117.2	109.2	140.1	177.3	152.7	132.1	123.0	119.5
77.5°	483.2	318.5	109.2	106.4	98.4	129.8	164.1	142.4	123.0	115.5	113.2
80°	195.6	145.8	94.9	95.5	90.4	123.5	155.0	132.7	113.8	105.8	101.8
82.5°	101.8	84.6	80.1	82.3	82.3	117.8	148.1	124.7	105.8	102.4	89.2
85°	54.9	52.6	61.8	66.3	71.5	106.4	137.8	116.1	96.6	82.9	80.1
87.5°	26.9	34.3	34.9	40.0	49.8	85.2	116.1	97.2	80.6	66.9	65.8
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)