

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: P397768

Luminaire Tested: **ARCH-S-PA1-40-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397768
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-PA1-40-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5521 lumens
Efficiency: N/A
Efficacy: 138.0 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): 40
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

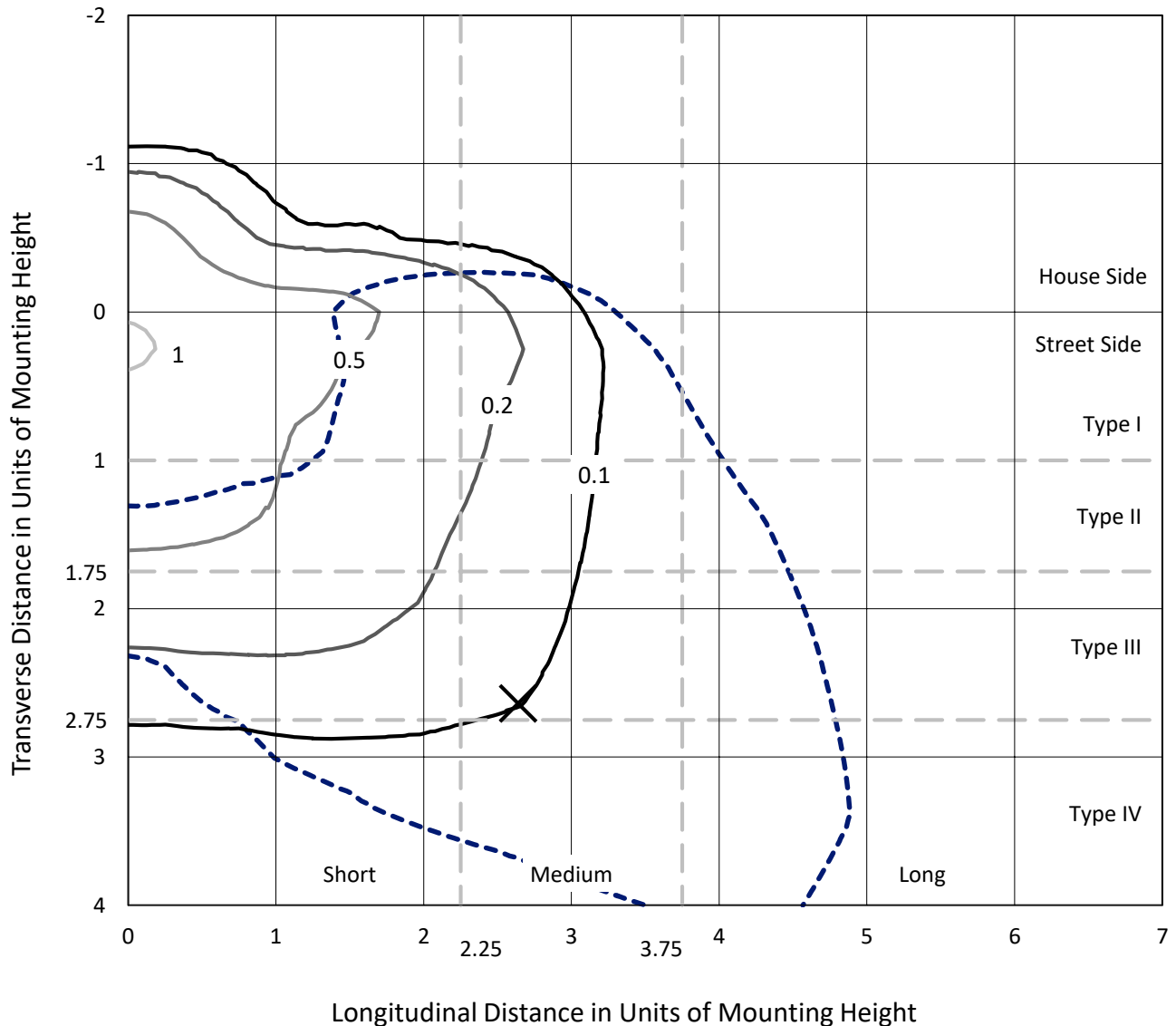


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

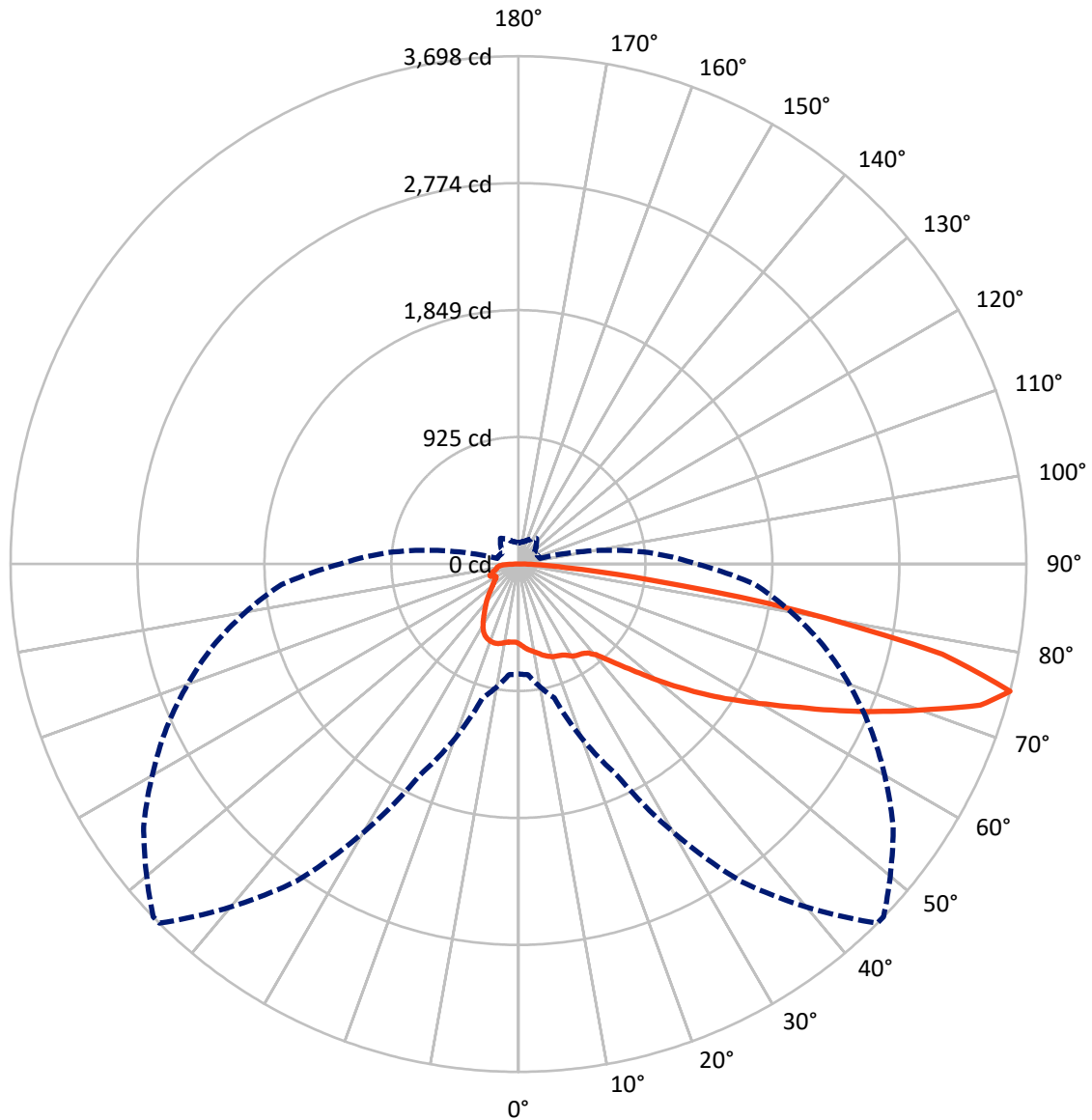


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - Non-Cutoff

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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	1220.1	0.0	1220.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4300.9	0.0	4300.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	5521.0	0.0	5521.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.0
10°-20°	182.5	3.3
20°-30°	311.1	5.6
30°-40°	435.9	7.9
40°-50°	640.4	11.6
50°-60°	1019.2	18.5
60°-70°	1449.9	26.3
70°-80°	1214.0	22.0
80°-90°	210.7	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°	5521.0	100.0
0°-180°	5521.0	100.0



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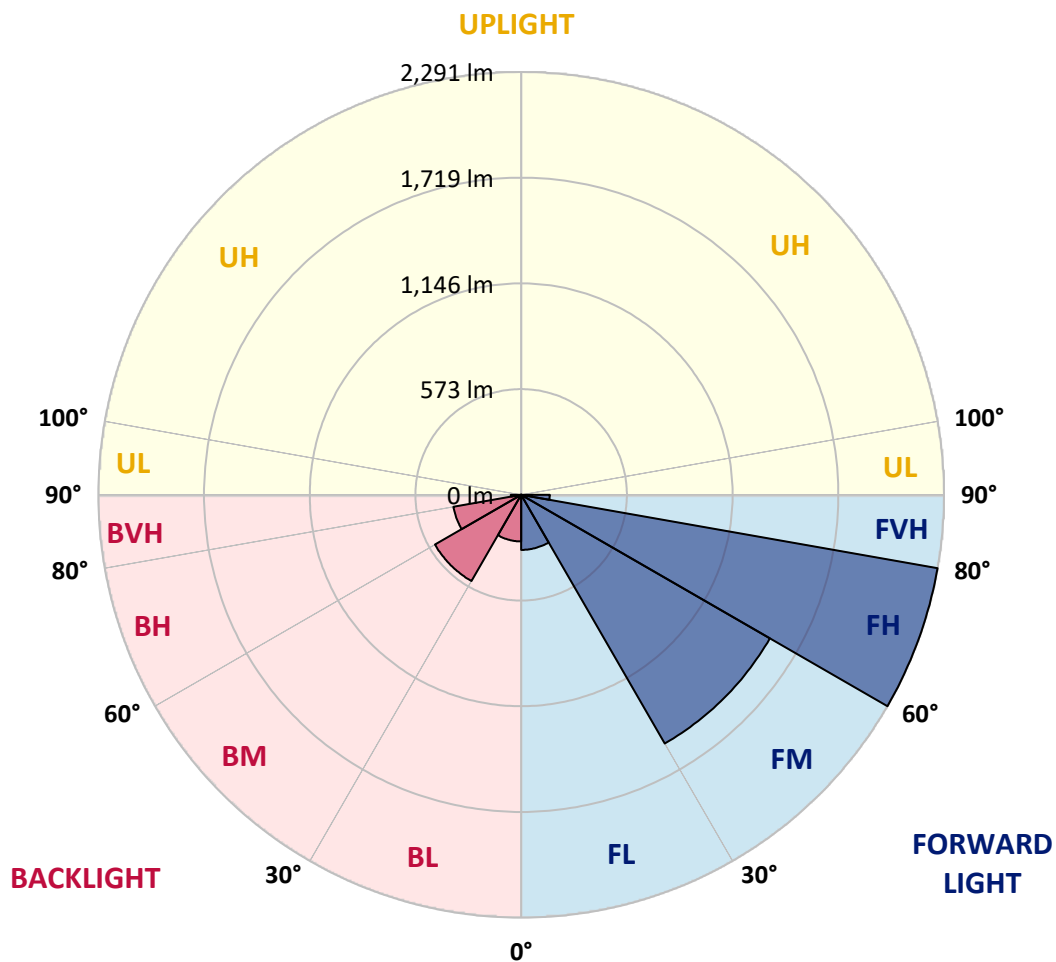
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.4	5.4			
FM	(30°-60°)	1556.2	28.2			
FH	(60°-80°)	2291.4	41.5			G2/5000
FVH	(80°-90°)	154.9	2.8			G2/225
BL	(0°-30°)	252.5	4.6	B1/500		
BM	(30°-60°)	539.3	9.8	B1/1000		
BH	(60°-80°)	372.5	6.7	B1/500		G1/500
BVH	(80°-90°)	55.8	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°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	613.0	610.1	608.6	608.6	602.7	599.0	598.3	593.1	588.7	584.3	580.6
5°	648.4	646.2	641.8	638.1	630.0	619.7	618.2	607.1	596.1	585.7	576.9
7.5°	680.9	676.5	671.3	663.9	650.6	636.6	634.4	618.9	603.4	587.9	576.1
10°	708.2	703.8	696.4	686.1	669.1	652.1	649.9	633.7	617.4	599.0	582.0
12.5°	734.0	730.3	719.2	705.2	685.3	669.8	667.6	653.6	636.6	616.0	593.8
15°	756.1	752.4	740.6	724.4	701.5	689.7	686.8	673.5	656.5	634.4	611.5
17.5°	767.2	767.2	754.7	737.0	715.6	706.7	704.5	688.3	672.8	651.4	628.5
20°	770.9	772.4	763.5	742.1	723.7	720.0	717.8	704.5	686.8	666.1	644.7
22.5°	773.1	776.1	768.7	744.3	728.8	726.6	725.2	716.3	702.3	682.4	661.0
25°	780.5	780.5	775.3	748.0	735.5	734.7	734.7	729.6	720.0	703.0	681.6
27.5°	791.5	790.8	784.2	756.1	750.2	752.4	751.7	751.0	744.3	727.4	704.5
30°	810.0	810.0	802.6	772.4	768.7	778.3	779.0	780.5	770.2	743.6	725.2
32.5°	838.0	835.1	827.7	788.6	782.7	791.5	793.0	792.3	783.4	758.3	749.5
35°	924.3	917.7	891.1	824.7	795.2	800.4	801.1	804.8	806.3	786.4	782.0
37.5°	1075.6	1066.7	1026.1	910.3	835.1	822.5	821.8	831.4	839.5	821.8	821.8
40°	1240.1	1232.7	1209.1	1057.9	908.8	867.5	864.6	873.4	883.8	871.2	874.9
42.5°	1381.7	1387.6	1389.8	1214.2	1019.5	951.6	943.5	931.0	947.2	936.1	950.9
45°	1487.9	1485.0	1525.5	1374.3	1162.6	1057.1	1046.0	1012.1	1032.8	1032.0	1064.5
47.5°	1600.8	1595.6	1612.6	1524.8	1325.6	1186.2	1169.2	1119.1	1150.1	1171.5	1225.3
50°	1707.8	1709.2	1715.1	1643.6	1502.7	1343.3	1321.9	1254.8	1299.1	1344.1	1420.1
52.5°	1847.2	1836.9	1829.5	1782.3	1701.1	1507.1	1493.1	1416.4	1478.3	1531.4	1632.5
55°	1968.9	1962.3	1957.8	1955.6	1867.1	1687.8	1673.1	1593.4	1682.7	1720.3	1869.3
57.5°	2098.7	2095.0	2118.7	2156.3	2120.9	1871.5	1856.0	1779.3	1878.9	1905.5	2126.0
60°	2193.9	2196.1	2261.0	2356.9	2332.6	2070.7	2052.3	1984.4	2070.0	2093.6	2382.7
62.5°	2194.6	2216.8	2367.3	2539.1	2567.2	2300.1	2278.7	2205.0	2266.2	2266.2	2612.9
65°	1985.1	2010.2	2348.1	2584.1	2804.7	2573.1	2552.4	2436.6	2459.5	2428.5	2829.0
67.5°	1776.4	1805.9	2123.8	2587.8	2971.4	2865.2	2840.9	2668.2	2629.1	2550.9	2980.3
70°	1637.7	1658.3	1923.9	2539.9	3071.7	3170.6	3152.2	2888.1	2762.7	2653.5	2948.6
72.5°	1378.7	1371.4	1625.1	2311.9	3127.8	3517.3	3501.8	3127.1	2878.5	2604.8	2514.8
75°	800.4	809.2	1008.4	1693.7	2819.5	3698.0	3696.6	3331.4	2827.6	2300.9	1732.8
77.5°	230.9	237.5	331.2	744.3	1783.0	3154.4	3255.4	3046.7	2390.1	1639.9	898.5
80°	101.1	106.2	143.8	247.9	767.9	2060.4	2148.9	2060.4	1441.4	752.4	352.6
82.5°	59.8	63.4	93.7	153.4	368.1	980.4	1099.9	960.5	621.9	319.4	146.1
85°	33.9	35.4	53.9	97.4	231.6	343.0	385.1	360.7	303.2	181.5	76.7
87.5°	15.5	16.2	26.6	45.7	129.8	115.8	120.2	159.3	175.6	110.7	38.4
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°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	579.1	576.9	572.4	571.0	568.8	569.5	570.2	570.2	571.0	568.8	568.8
5°	573.2	569.5	565.1	565.1	565.1	571.0	576.1	579.1	580.6	580.6	579.1
7.5°	571.0	566.5	561.4	562.9	564.3	571.7	581.3	590.9	593.8	593.8	592.4
10°	575.4	571.0	567.3	569.5	573.2	579.1	586.5	595.3	602.7	603.4	602.7
12.5°	585.7	580.6	576.9	581.3	585.7	589.4	593.1	596.8	606.4	607.9	607.9
15°	602.7	597.5	593.1	596.8	598.3	598.3	598.3	598.3	607.9	609.3	609.3
17.5°	619.7	615.2	610.8	611.5	607.1	601.2	599.0	598.3	603.4	607.9	608.6
20°	635.9	632.2	627.8	620.4	609.3	598.3	594.6	594.6	597.5	604.2	604.2
22.5°	653.6	649.2	641.8	624.8	606.4	590.9	587.2	589.4	593.1	602.0	601.2
25°	673.5	667.6	655.1	623.3	596.8	578.4	579.1	585.7	592.4	602.0	602.0
27.5°	695.6	687.5	662.4	611.5	575.4	557.7	564.3	579.8	589.4	599.7	601.2
30°	720.0	712.6	668.3	590.9	540.7	524.5	540.7	565.8	580.6	590.2	592.4
32.5°	749.5	743.6	673.5	564.3	495.7	481.7	505.3	536.3	559.9	571.0	573.2
35°	786.4	780.5	680.2	534.1	453.7	438.9	460.3	492.0	523.0	537.0	541.5
37.5°	834.3	825.5	686.1	501.6	418.3	401.3	411.6	440.4	468.4	487.6	492.8
40°	895.6	881.5	691.2	464.7	387.3	368.1	371.8	385.8	402.0	419.0	425.6
42.5°	981.9	953.8	692.0	425.6	355.6	337.9	336.4	340.8	340.8	340.8	343.0
45°	1102.1	1049.0	693.4	388.8	323.1	304.7	300.2	298.8	287.7	266.3	264.8
47.5°	1254.1	1173.7	700.1	357.8	289.2	272.9	267.0	261.1	240.5	218.4	213.9
50°	1448.8	1318.3	713.3	328.3	260.4	249.3	242.0	227.9	205.1	188.1	183.7
52.5°	1673.1	1490.1	725.9	297.3	239.0	231.6	222.8	205.8	181.5	171.1	169.7
55°	1930.5	1681.9	751.0	270.0	220.6	215.4	207.3	191.1	172.6	165.2	164.5
57.5°	2193.9	1896.6	786.4	245.7	202.9	199.9	199.9	185.9	174.1	171.1	171.1
60°	2447.7	2081.0	759.1	222.8	186.6	188.1	202.1	198.4	189.6	193.3	195.5
62.5°	2644.6	2189.5	616.0	204.3	174.8	188.1	224.3	224.3	213.9	212.5	212.5
65°	2728.7	2188.0	433.0	190.3	170.4	206.6	250.1	238.3	211.0	200.7	198.4
67.5°	2707.3	2092.1	298.8	180.7	168.9	225.7	261.9	228.7	197.7	188.8	182.2
70°	2519.2	1889.2	230.2	171.9	166.7	217.6	258.2	217.6	187.4	179.3	173.4
72.5°	2032.3	1515.2	191.1	163.0	157.9	201.4	245.7	207.3	179.3	170.4	164.5
75°	1296.1	953.1	161.6	151.2	140.9	180.7	228.7	197.0	170.4	158.6	154.2
77.5°	623.3	410.9	140.9	137.2	126.9	167.5	211.7	183.7	158.6	149.0	146.1
80°	252.3	188.1	122.5	123.2	116.6	159.3	199.9	171.1	146.8	136.5	131.3
82.5°	131.3	109.2	103.3	106.2	106.2	152.0	191.1	160.8	136.5	132.0	115.1
85°	70.8	67.9	79.7	85.6	92.2	137.2	177.8	149.8	124.7	107.0	103.3
87.5°	34.7	44.3	45.0	51.6	64.2	109.9	149.8	125.4	104.0	86.3	84.8
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)