

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: P397764

Luminaire Tested: **ARCH-S-PA1-40-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
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-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5568 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

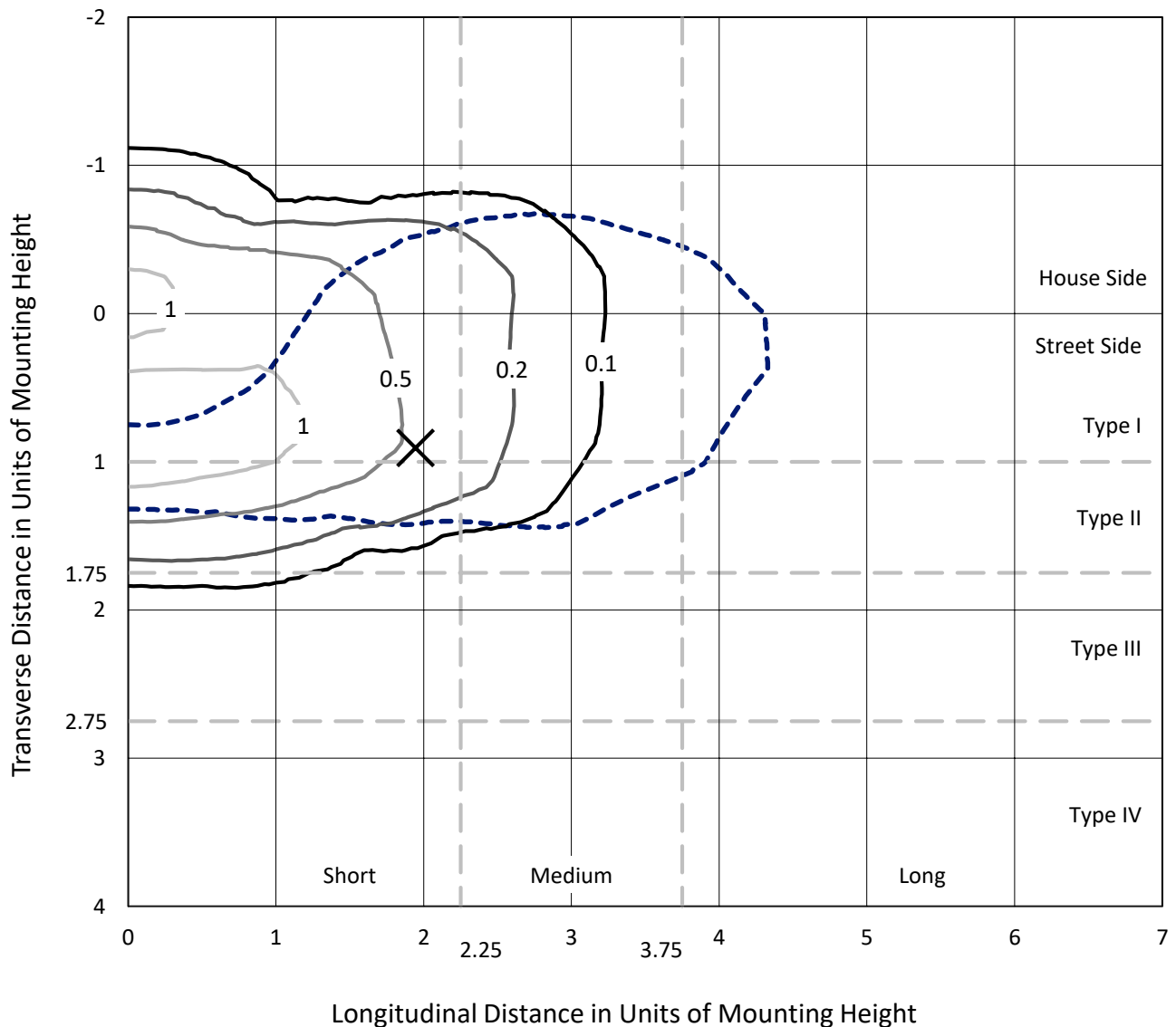
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

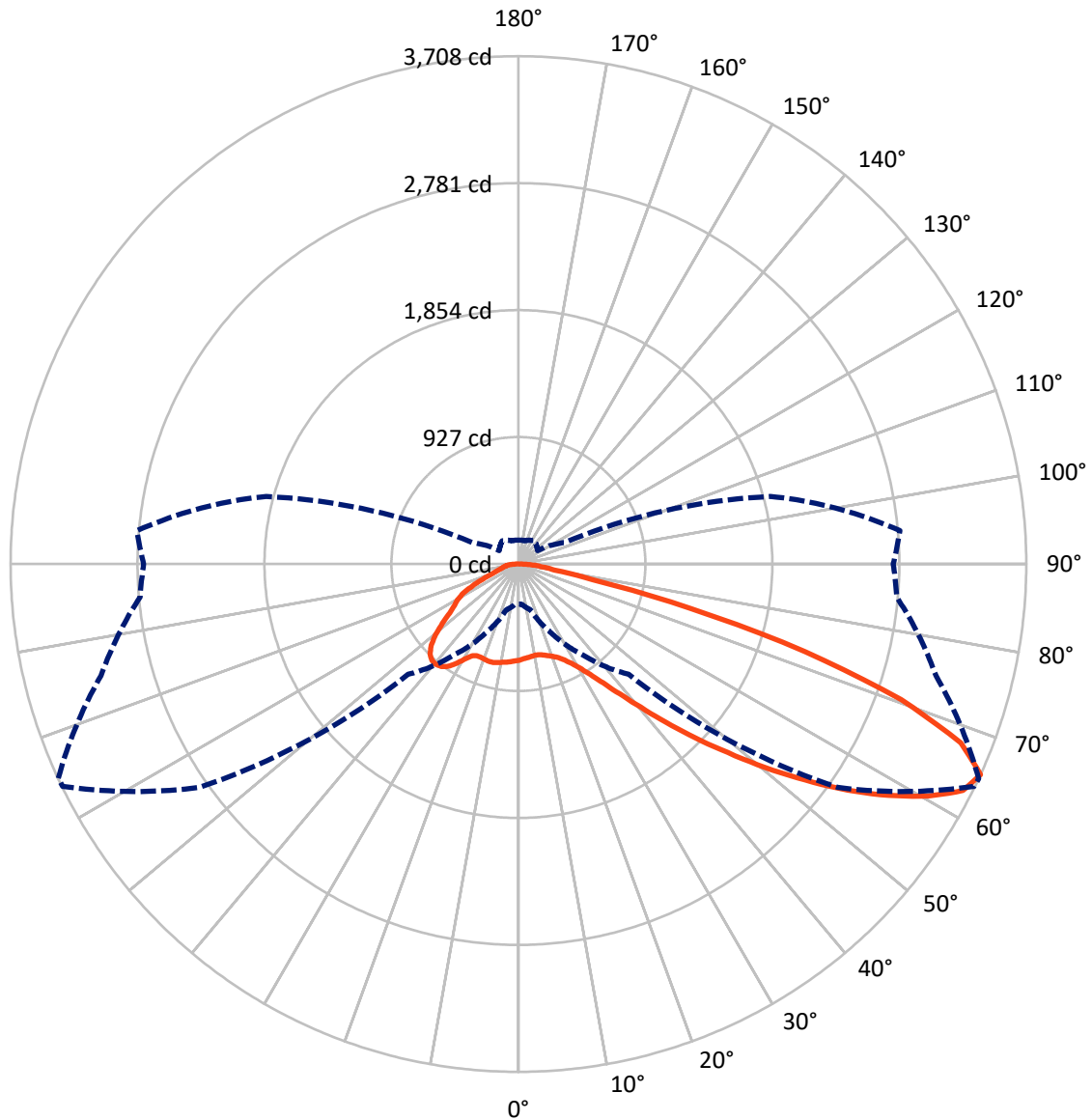


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1609.8	0.0	1609.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	3958.2	0.0	3958.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	5568.0	0.0	5568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.2
10°-20°	200.1	3.6
20°-30°	355.5	6.4
30°-40°	601.4	10.8
40°-50°	1046.9	18.8
50°-60°	1352.9	24.3
60°-70°	1183.9	21.3
70°-80°	643.9	11.6
80°-90°	116.3	2.1
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°	5568.0	100.0
0°-180°	5568.0	100.0



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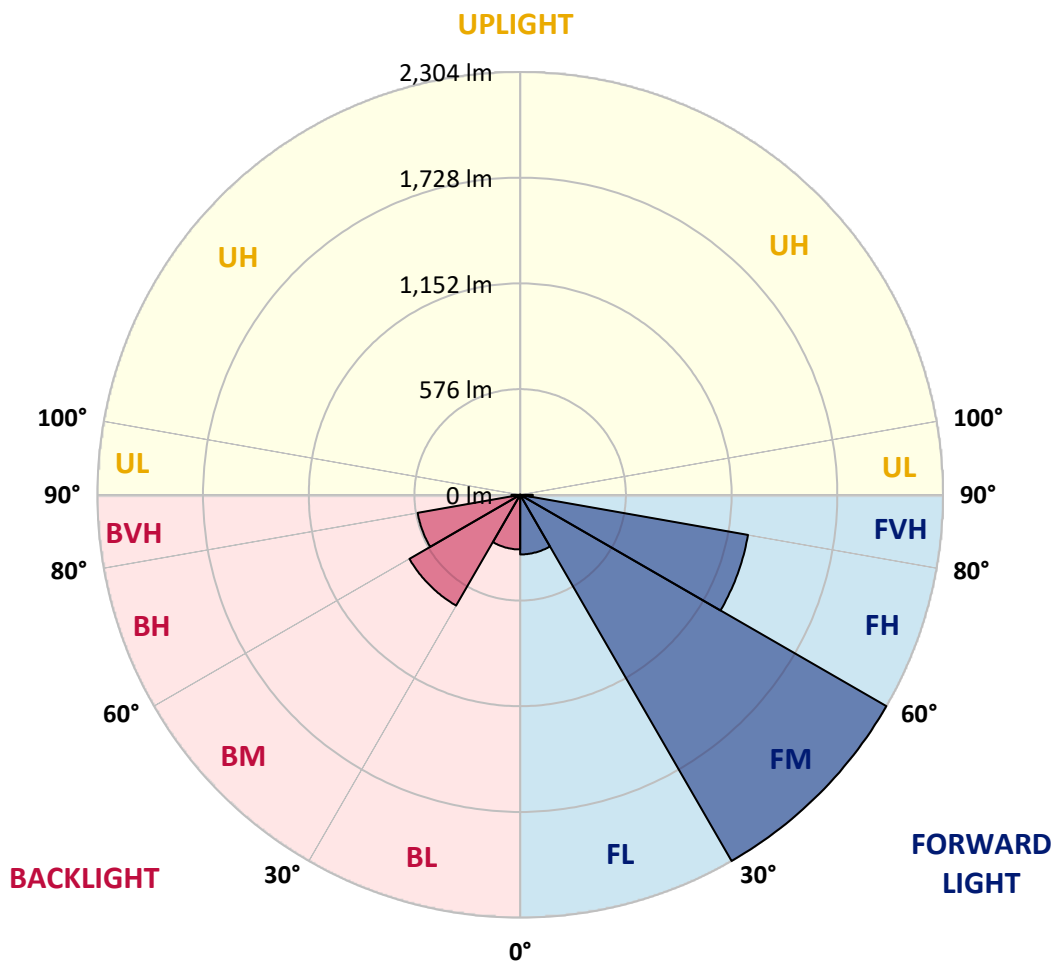
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.9	5.8			
FM	(30°-60°)	2304.2	41.4			
FH	(60°-80°)	1260.7	22.6			G1/1800
FVH	(80°-90°)	68.5	1.2			G1/100
BL	(0°-30°)	297.8	5.3	B1/500		
BM	(30°-60°)	697.0	12.5	B1/1000		
BH	(60°-80°)	567.2	10.2	B2/1000		G2/1000
BVH	(80°-90°)	47.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6
2.5°	691.1	690.4	688.9	690.4	691.1	692.6	691.8	693.3	692.6	694.8	698.4
5°	673.5	672.1	671.3	675.0	677.2	680.9	682.3	687.4	686.7	690.4	696.2
7.5°	653.7	653.7	653.0	657.4	660.3	666.9	672.1	680.9	681.6	688.2	694.8
10°	638.3	639.1	638.3	642.0	646.4	654.5	663.3	675.7	676.5	686.0	692.6
12.5°	632.5	632.5	632.5	637.6	643.5	654.5	664.7	677.9	679.4	689.6	695.5
15°	640.5	641.3	639.8	644.9	651.5	664.7	674.3	688.2	689.6	699.2	702.8
17.5°	669.1	672.1	668.4	671.3	669.9	680.1	688.9	702.8	703.6	711.6	713.1
20°	725.6	728.5	722.6	719.0	705.8	705.0	708.7	719.7	719.7	724.8	721.2
22.5°	812.8	815.7	805.4	791.5	760.0	744.6	736.6	741.7	740.9	743.1	733.6
25°	928.6	927.8	915.4	889.7	839.2	801.8	782.0	773.9	773.9	769.5	757.8
27.5°	1072.2	1061.2	1039.2	1008.5	938.1	886.1	843.6	823.0	819.4	806.2	784.2
30°	1225.4	1217.3	1185.8	1141.1	1059.8	993.1	922.7	881.7	879.5	850.9	817.9
32.5°	1405.7	1392.5	1357.3	1303.8	1206.3	1112.5	1024.6	962.3	958.6	913.2	867.7
35°	1637.3	1626.3	1558.1	1504.6	1379.3	1256.2	1152.1	1069.3	1066.3	1010.6	952.8
37.5°	1915.0	1886.4	1820.5	1720.1	1588.2	1442.3	1310.4	1206.3	1202.7	1141.1	1067.8
40°	2162.7	2137.1	2078.5	1986.1	1844.7	1682.7	1503.9	1377.8	1374.2	1299.4	1207.1
42.5°	2346.0	2328.4	2290.3	2236.8	2135.6	2037.4	1750.9	1585.2	1578.6	1481.9	1366.8
45°	2452.2	2438.3	2416.3	2429.5	2428.1	2409.7	2045.5	1832.2	1811.0	1685.6	1544.9
47.5°	2426.6	2414.1	2422.9	2525.5	2667.0	2773.2	2388.5	2085.1	2056.5	1893.0	1734.7
50°	2241.2	2246.3	2292.5	2488.9	2806.2	3042.2	2768.8	2373.1	2335.0	2101.9	1915.0
52.5°	1903.3	1915.8	2027.9	2302.7	2790.8	3216.6	3112.6	2670.6	2620.1	2305.7	2079.2
55°	1511.9	1543.5	1688.6	1977.3	2590.0	3229.1	3372.0	2969.7	2914.0	2496.9	2222.1
57.5°	1118.4	1165.3	1333.1	1598.4	2205.3	3031.9	3501.7	3255.5	3188.1	2686.8	2373.1
60°	709.4	738.0	931.5	1244.4	1687.8	2549.7	3484.9	3498.8	3440.2	2875.8	2530.7
62.5°	452.9	466.8	564.3	887.5	1179.9	1887.9	3300.9	3682.8	3643.2	3048.1	2680.2
65°	291.0	296.8	346.7	546.0	803.2	1139.6	2842.9	3702.5	3707.7	3155.8	2772.5
67.5°	236.7	239.7	258.0	337.1	568.0	629.5	1980.3	3421.1	3483.4	3128.0	2741.0
70°	215.5	219.1	238.2	269.0	439.7	434.6	958.6	2862.7	2964.5	2967.5	2601.0
72.5°	181.8	186.9	212.5	254.3	340.1	343.0	406.0	2038.9	2189.1	2652.3	2390.7
75°	151.7	154.6	176.6	224.3	288.0	274.1	285.1	1081.0	1297.9	2126.8	2167.1
77.5°	123.1	126.1	142.2	178.8	255.8	213.3	224.3	447.8	553.3	1443.8	1771.4
80°	87.9	90.9	109.2	139.2	193.5	192.0	166.4	247.0	268.2	780.5	1150.6
82.5°	63.0	65.2	82.8	99.7	134.1	192.7	125.3	167.8	175.9	345.9	463.9
85°	42.5	42.5	57.2	66.0	86.5	121.7	101.1	113.6	118.7	164.2	125.3
87.5°	18.3	18.3	30.8	33.7	45.4	56.4	75.5	57.2	58.6	88.7	51.3
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°	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6
2.5°	700.6	701.4	702.8	707.2	710.2	714.6	716.8	719.7	719.7	718.2	719.0
5°	699.2	701.4	706.5	714.6	719.7	727.8	733.6	738.0	739.5	738.0	738.7
7.5°	698.4	702.1	710.9	722.6	730.0	740.2	748.3	753.4	757.1	755.6	756.3
10°	696.2	702.1	713.1	727.8	738.7	749.0	756.3	758.5	760.7	759.3	758.5
12.5°	699.2	705.8	717.5	735.1	747.5	755.6	757.8	754.1	749.0	746.1	745.3
15°	705.0	711.6	723.4	741.7	752.7	755.6	750.5	738.7	727.0	720.4	719.7
17.5°	713.1	717.5	727.0	743.1	751.9	748.3	738.0	724.1	715.3	710.2	710.9
20°	718.2	718.2	725.6	738.0	745.3	742.4	730.0	714.6	700.6	694.0	691.8
22.5°	725.6	721.9	722.6	733.6	743.9	739.5	713.1	686.0	666.2	658.9	658.1
25°	745.3	735.1	728.5	735.1	759.3	723.4	670.6	639.1	620.8	614.2	614.9
27.5°	769.5	755.6	741.7	752.7	771.7	686.7	616.4	580.4	569.5	564.3	566.5
30°	793.7	775.4	757.1	796.6	762.9	629.5	546.7	511.6	502.0	498.4	501.3
32.5°	838.4	808.4	786.4	855.3	735.8	564.3	471.2	439.0	430.2	425.8	424.3
35°	913.2	875.1	853.1	906.6	697.7	491.8	402.4	379.6	370.1	360.6	359.1
37.5°	1020.9	974.7	955.0	935.9	644.2	419.9	349.6	334.2	320.3	305.6	304.9
40°	1149.9	1089.8	1075.1	949.1	570.2	352.5	312.9	298.3	280.7	266.8	267.5
42.5°	1298.7	1221.7	1190.2	945.4	478.6	316.6	286.6	270.4	255.0	242.6	241.9
45°	1457.7	1370.5	1297.9	919.8	387.7	291.7	270.4	251.4	236.0	222.1	220.6
47.5°	1633.6	1536.1	1397.6	869.9	320.3	274.1	260.9	233.8	219.9	211.1	211.1
50°	1811.0	1694.4	1489.2	794.4	280.7	260.9	247.0	224.3	213.3	205.9	205.9
52.5°	1962.7	1859.3	1564.7	704.3	255.8	249.9	237.5	219.9	208.1	201.5	200.8
55°	2110.0	2012.5	1632.1	614.9	235.3	235.3	235.3	216.2	203.0	197.1	196.4
57.5°	2256.6	2173.7	1702.5	556.3	216.9	222.8	230.9	211.8	198.6	193.5	192.7
60°	2422.2	2367.2	1783.8	515.2	200.8	209.6	225.0	206.7	191.3	186.9	186.2
62.5°	2598.1	2598.1	1857.9	457.3	186.2	198.6	216.2	200.1	184.7	181.0	180.3
65°	2735.9	2795.2	1905.5	370.8	171.5	187.6	205.9	191.3	175.9	175.2	173.7
67.5°	2752.0	2845.1	1875.5	280.0	158.3	175.9	195.7	181.8	167.1	167.1	164.9
70°	2636.2	2730.7	1781.6	209.6	148.8	164.2	182.5	170.0	156.1	157.6	153.9
72.5°	2442.7	2466.2	1548.6	165.6	137.8	151.7	166.4	156.8	144.4	144.4	139.2
75°	2187.7	2057.2	1125.0	138.5	124.6	137.0	150.2	142.2	131.2	127.5	124.6
77.5°	1741.3	1490.7	653.7	119.5	113.6	123.1	131.9	126.1	116.5	108.5	108.5
80°	1061.2	873.6	288.8	103.3	100.4	107.7	113.6	107.0	98.9	90.9	88.7
82.5°	403.8	337.1	140.0	88.7	87.9	92.3	96.7	90.1	84.3	80.6	69.6
85°	110.7	101.9	96.0	74.0	72.6	71.8	77.0	74.0	66.0	54.2	48.4
87.5°	41.8	47.6	52.0	45.4	48.4	44.7	51.3	46.9	41.8	27.1	24.2
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)