

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: P397777

Luminaire Tested: **ARCH-S-PA1-40-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397777
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-PA1-40-740-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 6062 lumens
Efficiency: N/A
Efficacy: 151.6 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

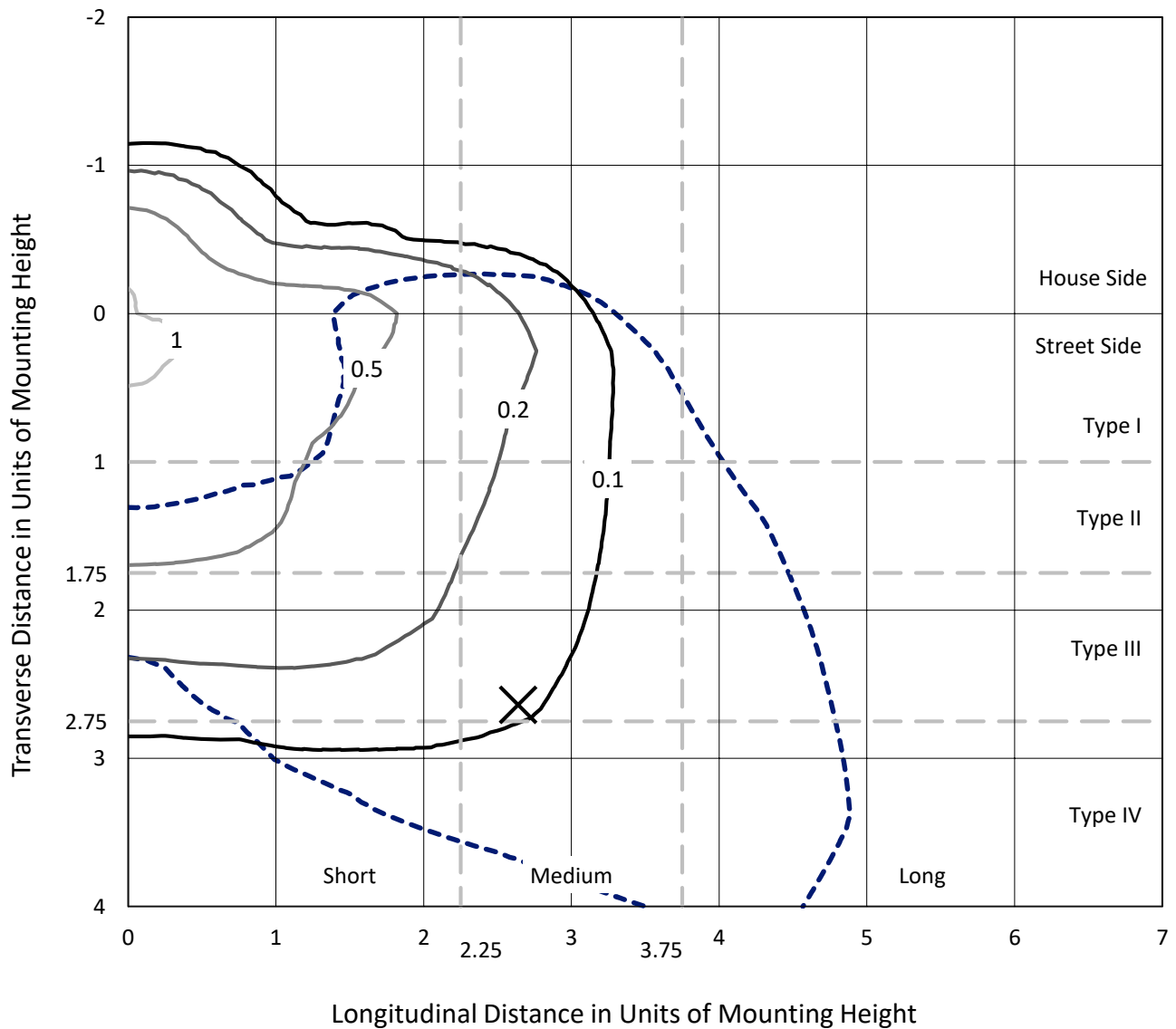


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

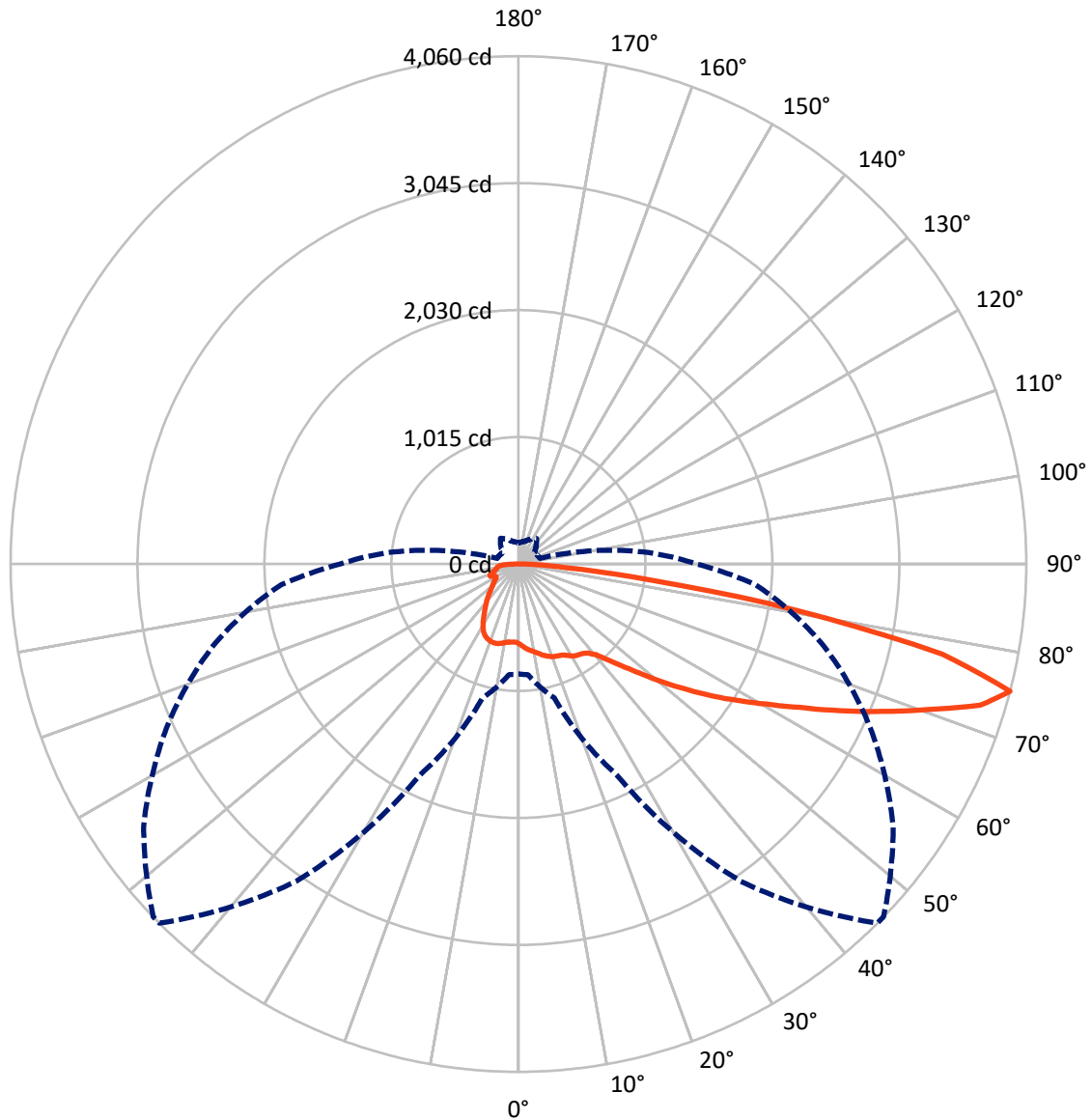


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

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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	1339.7	0.0	1339.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	4722.3	0.0	4722.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	6062.0	0.0	6062.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.0
10°-20°	200.4	3.3
20°-30°	341.6	5.6
30°-40°	478.6	7.9
40°-50°	703.2	11.6
50°-60°	1119.1	18.5
60°-70°	1591.9	26.3
70°-80°	1332.9	22.0
80°-90°	231.3	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°	6062.0	100.0
0°-180°	6062.0	100.0



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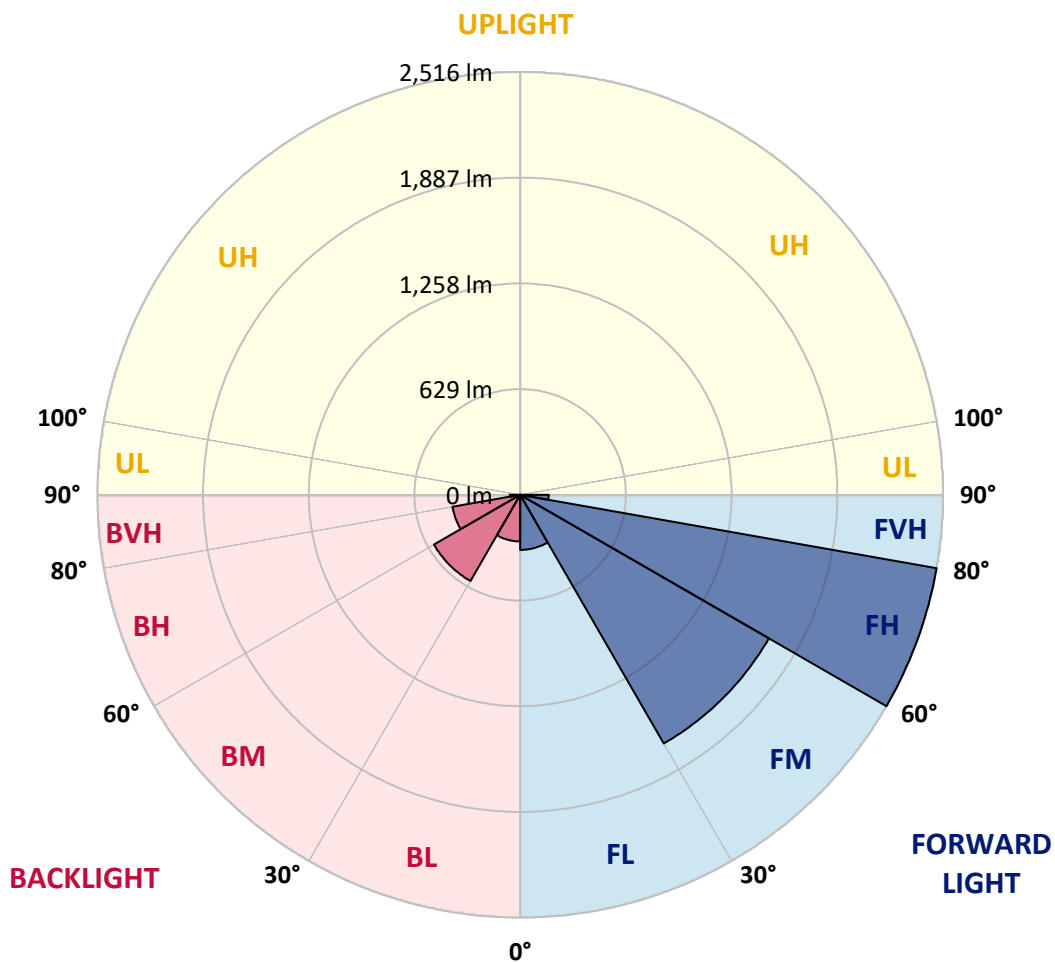
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.7	5.4			
FM (30°-60°)	1708.7	28.2			
FH (60°-80°)	2515.9	41.5			G2/5000
FVH (80°-90°)	170.1	2.8			G2/225
BL (0°-30°)	277.3	4.6	B1/500		
BM (30°-60°)	592.2	9.8	B1/1000		
BH (60°-80°)	409.0	6.7	B1/500		G1/500
BVH (80°-90°)	61.3	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°	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
2.5°	673.1	669.9	668.2	668.2	661.8	657.7	656.9	651.2	646.4	641.5	637.5
5°	712.0	709.5	704.7	700.6	691.7	680.4	678.8	666.6	654.5	643.1	633.4
7.5°	747.6	742.7	737.1	729.0	714.4	699.0	696.6	679.6	662.6	645.6	632.6
10°	777.6	772.7	764.6	753.3	734.6	716.0	713.6	695.8	678.0	657.7	639.1
12.5°	805.9	801.9	789.7	774.3	752.5	735.5	733.0	717.6	699.0	676.3	652.0
15°	830.2	826.2	813.2	795.4	770.3	757.3	754.1	739.5	720.9	696.6	671.5
17.5°	842.4	842.4	828.6	809.2	785.7	776.0	773.5	755.7	738.7	715.2	690.1
20°	846.4	848.0	838.3	814.8	794.6	790.5	788.1	773.5	754.1	731.4	707.9
22.5°	848.9	852.1	844.0	817.3	800.3	797.8	796.2	786.5	771.1	749.2	725.7
25°	857.0	857.0	851.3	821.3	807.5	806.7	806.7	801.1	790.5	771.9	748.4
27.5°	869.1	868.3	861.0	830.2	823.7	826.2	825.4	824.6	817.3	798.6	773.5
30°	889.4	889.4	881.3	848.0	844.0	854.5	855.3	857.0	845.6	816.5	796.2
32.5°	920.1	916.9	908.8	865.9	859.4	869.1	870.7	869.9	860.2	832.7	822.9
35°	1014.9	1007.6	978.5	905.6	873.2	878.8	879.6	883.7	885.3	863.4	858.6
37.5°	1180.9	1171.2	1126.7	999.5	916.9	903.1	902.3	912.8	921.8	902.3	902.3
40°	1361.6	1353.5	1327.6	1161.5	997.9	952.5	949.3	959.0	970.4	956.6	960.6
42.5°	1517.1	1523.6	1526.0	1333.2	1119.4	1044.9	1036.0	1022.2	1040.0	1027.9	1044.1
45°	1633.7	1630.5	1675.0	1509.0	1276.5	1160.7	1148.5	1111.3	1134.0	1133.2	1168.8
47.5°	1757.7	1752.0	1770.6	1674.2	1455.5	1302.4	1283.8	1228.7	1262.8	1286.2	1345.4
50°	1875.1	1876.7	1883.2	1804.6	1649.9	1475.0	1451.5	1377.8	1426.4	1475.8	1559.2
52.5°	2028.2	2016.8	2008.7	1956.9	1867.8	1654.8	1639.4	1555.2	1623.2	1681.5	1792.5
55°	2161.8	2154.5	2149.7	2147.3	2050.1	1853.2	1837.0	1749.6	1847.6	1888.9	2052.5
57.5°	2304.4	2300.3	2326.3	2367.6	2328.7	2054.9	2037.9	1953.7	2063.0	2092.2	2334.4
60°	2408.9	2411.3	2482.6	2587.9	2561.2	2273.6	2253.4	2178.8	2272.8	2298.7	2616.2
62.5°	2409.7	2434.0	2599.2	2787.9	2818.7	2525.5	2502.0	2421.0	2488.3	2488.3	2868.9
65°	2179.7	2207.2	2578.2	2837.4	3079.5	2825.2	2802.5	2675.4	2700.5	2666.4	3106.3
67.5°	1950.4	1982.8	2331.9	2841.4	3262.6	3146.0	3119.2	2929.7	2886.8	2800.9	3272.3
70°	1798.2	1820.8	2112.4	2788.8	3372.7	3481.3	3461.0	3171.1	3033.4	2913.5	3237.5
72.5°	1513.8	1505.7	1784.4	2538.5	3434.3	3862.0	3845.0	3433.5	3160.5	2860.0	2761.2
75°	878.8	888.5	1107.2	1859.7	3095.7	4060.4	4058.8	3657.9	3104.6	2526.3	1902.6
77.5°	253.5	260.8	363.7	817.3	1957.7	3463.5	3574.4	3345.2	2624.3	1800.6	986.6
80°	111.0	116.6	157.9	272.2	843.2	2262.3	2359.5	2262.3	1582.7	826.2	387.2
82.5°	65.6	69.7	102.9	168.5	404.2	1076.5	1207.7	1054.6	682.8	350.7	160.4
85°	37.3	38.9	59.1	106.9	254.3	376.6	422.8	396.1	332.9	199.3	84.2
87.5°	17.0	17.8	29.2	50.2	142.6	127.2	132.0	175.0	192.8	121.5	42.1
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°	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6	636.6
2.5°	635.8	633.4	628.5	626.9	624.5	625.3	626.1	626.1	626.9	624.5	624.5
5°	629.4	625.3	620.4	620.4	620.4	626.9	632.6	635.8	637.5	637.5	635.8
7.5°	626.9	622.1	616.4	618.0	619.6	627.7	638.3	648.8	652.0	652.0	650.4
10°	631.8	626.9	622.9	625.3	629.4	635.8	643.9	653.7	661.8	662.6	661.8
12.5°	643.1	637.5	633.4	638.3	643.1	647.2	651.2	655.3	665.8	667.4	667.4
15°	661.8	656.1	651.2	655.3	656.9	656.9	656.9	656.9	667.4	669.0	669.0
17.5°	680.4	675.5	670.7	671.5	666.6	660.1	657.7	656.9	662.6	667.4	668.2
20°	698.2	694.2	689.3	681.2	669.0	656.9	652.8	652.8	656.1	663.4	663.4
22.5°	717.6	712.8	704.7	686.1	665.8	648.8	644.7	647.2	651.2	660.9	660.1
25°	739.5	733.0	719.3	684.4	655.3	635.0	635.8	643.1	650.4	660.9	660.9
27.5°	763.8	754.9	727.4	671.5	631.8	612.3	619.6	636.6	647.2	658.5	660.1
30°	790.5	782.4	733.8	648.8	593.7	575.9	593.7	621.3	637.5	648.0	650.4
32.5°	822.9	816.5	739.5	619.6	544.3	528.9	554.8	588.9	614.8	626.9	629.4
35°	863.4	857.0	746.8	586.4	498.1	481.9	505.4	540.3	574.3	589.7	594.5
37.5°	916.1	906.4	753.3	550.8	459.3	440.6	452.0	483.6	514.3	535.4	541.1
40°	983.3	967.9	758.9	510.3	425.2	404.2	408.2	423.6	441.4	460.1	467.4
42.5°	1078.1	1047.3	759.8	467.4	390.4	371.0	369.3	374.2	374.2	374.2	376.6
45°	1210.1	1151.8	761.4	426.9	354.8	334.5	329.7	328.0	315.9	292.4	290.8
47.5°	1377.0	1288.7	768.7	392.8	317.5	299.7	293.2	286.7	264.1	239.8	234.9
50°	1590.8	1447.4	783.2	360.4	285.9	273.8	265.7	250.3	225.2	206.5	201.7
52.5°	1837.0	1636.2	797.0	326.4	262.4	254.3	244.6	226.0	199.3	187.9	186.3
55°	2119.7	1846.7	824.6	296.5	242.2	236.5	227.6	209.8	189.5	181.4	180.6
57.5°	2408.9	2082.5	863.4	269.7	222.7	219.5	219.5	204.1	191.2	187.9	187.9
60°	2687.5	2284.9	833.5	244.6	204.9	206.5	221.9	217.9	208.2	212.2	214.6
62.5°	2903.8	2404.0	676.3	224.4	192.0	206.5	246.2	246.2	234.9	233.3	233.3
65°	2996.1	2402.4	475.5	209.0	187.1	226.8	274.6	261.6	231.7	220.3	217.9
67.5°	2972.6	2297.1	328.0	198.4	185.5	247.9	287.5	251.1	217.1	207.4	200.1
70°	2766.1	2074.4	252.7	188.7	183.1	238.9	283.5	238.9	205.7	196.8	190.3
72.5°	2231.5	1663.7	209.8	179.0	173.3	221.1	269.7	227.6	196.8	187.1	180.6
75°	1423.1	1046.5	177.4	166.0	154.7	198.4	251.1	216.3	187.1	174.1	169.3
77.5°	684.4	451.2	154.7	150.7	139.3	183.9	232.5	201.7	174.1	163.6	160.4
80°	277.0	206.5	134.5	135.3	128.0	175.0	219.5	187.9	161.2	149.8	144.2
82.5°	144.2	119.9	113.4	116.6	116.6	166.9	209.8	176.6	149.8	145.0	126.4
85°	77.8	74.5	87.5	94.0	101.2	150.7	195.2	164.4	136.9	117.4	113.4
87.5°	38.1	48.6	49.4	56.7	70.5	120.7	164.4	137.7	114.2	94.8	93.1
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)