

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: P348924

Luminaire Tested: **ARCH-N-PA1-60-727-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348924
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-PA1-60-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6380 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 62
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

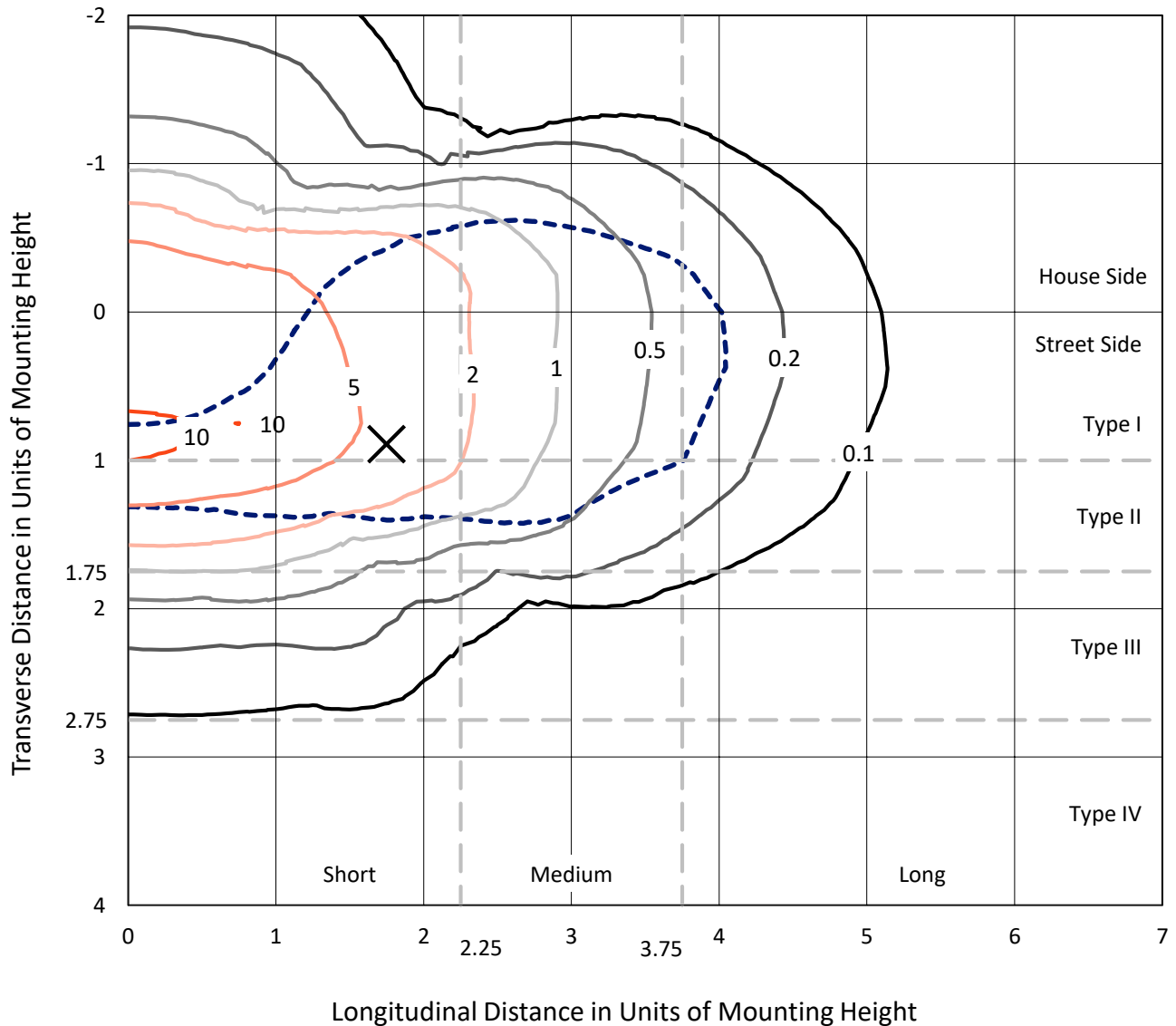


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Iso-Footcandle Lines of Horizontal Illumination

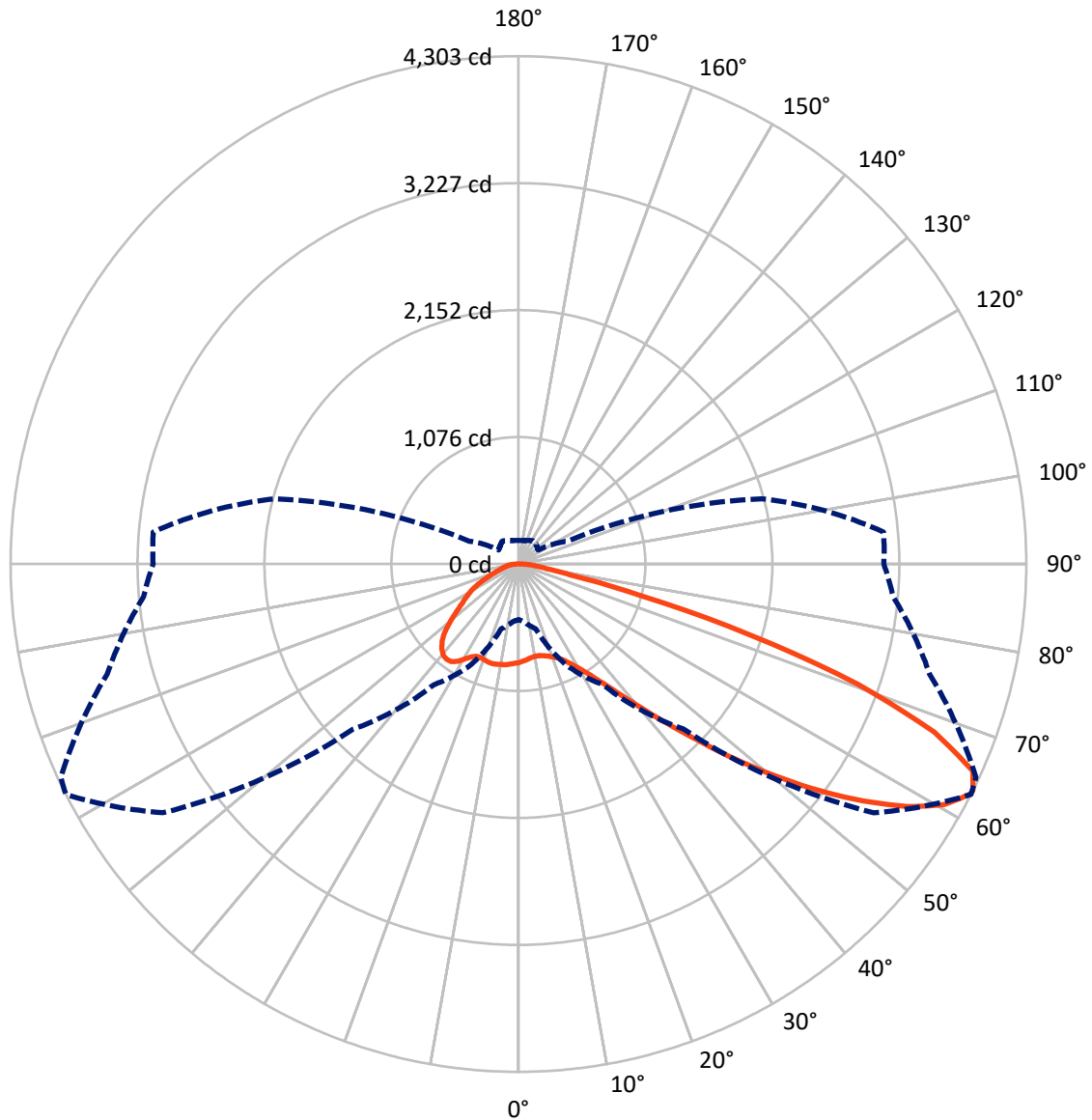
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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	1821.4	0.0	1821.4
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	4558.6	0.0	4558.6
	% Fixture	71.5	0.0	71.5
Total	Lumens	6380.0	0.0	6380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.2
10°-20°	233.9	3.7
20°-30°	410.7	6.4
30°-40°	692.3	10.9
40°-50°	1212.7	19.0
50°-60°	1567.4	24.6
60°-70°	1356.7	21.3
70°-80°	704.3	11.0
80°-90°	122.7	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°	6380.0	100.0
0°-180°	6380.0	100.0



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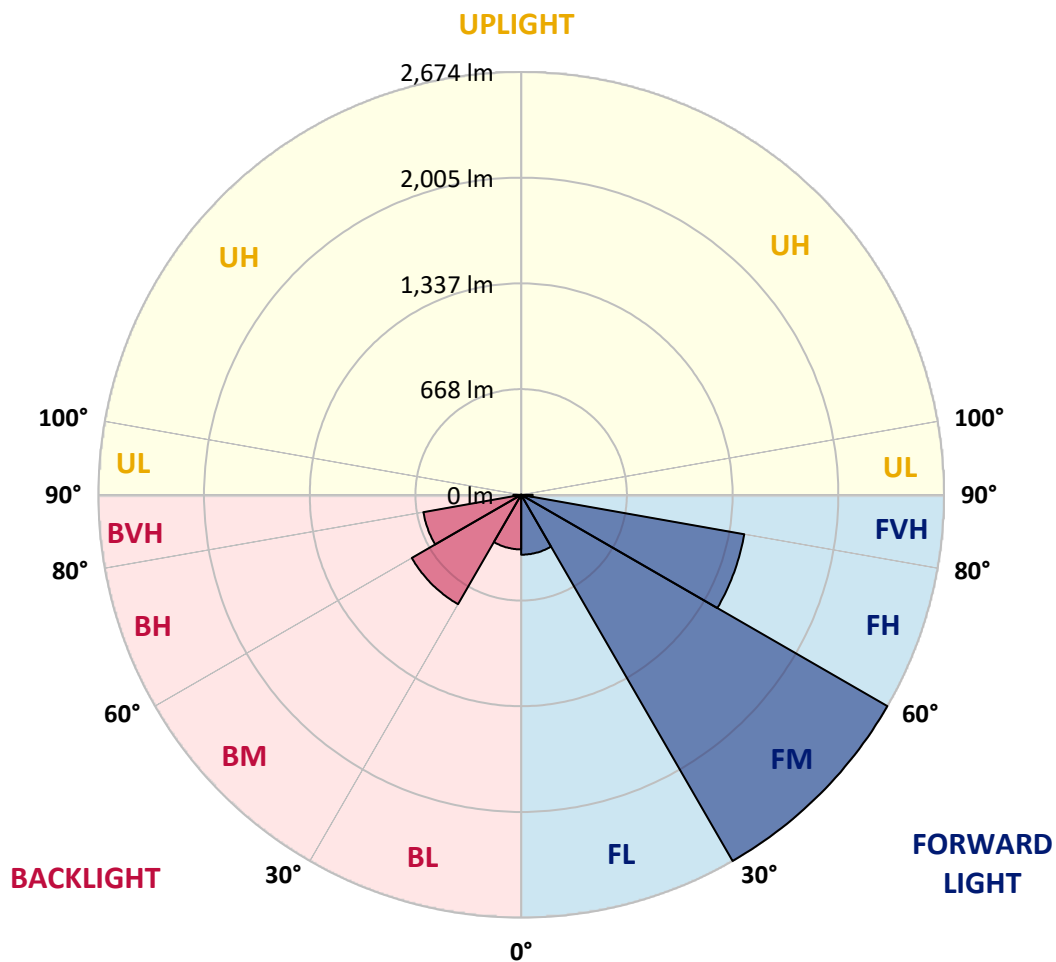
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.8	5.9			
FM	(30°-60°)	2674.0	41.9			
FH	(60°-80°)	1432.8	22.5			G1/1800
FVH	(80°-90°)	73.1	1.1			G1/100
BL	(0°-30°)	345.0	5.4	B1/500		
BM	(30°-60°)	798.4	12.5	B1/1000		
BH	(60°-80°)	628.3	9.8	B2/1000		G2/1000
BVH	(80°-90°)	49.6	0.8			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°	63°	65°	75°	85°
0°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
2.5°	815.6	813.2	817.4	819.2	818.6	822.2	822.2	822.8	822.8	825.8	828.8
5°	791.7	790.5	794.7	797.7	800.1	805.5	809.1	810.8	812.6	816.8	824.0
7.5°	769.1	767.3	773.2	775.6	779.2	787.0	795.3	800.1	802.5	811.4	821.6
10°	750.5	749.9	754.7	757.1	761.3	772.6	784.6	794.7	796.5	808.5	818.0
12.5°	741.6	740.4	745.8	748.8	755.9	769.6	783.4	795.9	798.9	812.6	821.0
15°	748.8	749.9	754.7	755.3	763.7	778.0	793.5	806.1	809.1	822.8	828.8
17.5°	782.8	782.2	785.2	784.0	787.0	794.1	810.8	821.0	824.6	834.7	839.5
20°	844.3	842.5	844.9	837.1	824.0	820.4	830.6	841.9	843.1	849.1	846.1
22.5°	938.0	939.8	934.4	914.7	883.1	868.2	861.6	865.2	869.4	868.8	859.8
25°	1060.4	1066.4	1056.3	1021.6	968.5	933.8	910.0	904.6	907.6	899.2	885.5
27.5°	1221.0	1225.8	1203.7	1150.0	1078.3	1027.0	979.2	960.7	960.7	942.8	917.7
30°	1397.8	1400.8	1365.5	1297.5	1214.5	1138.1	1067.6	1031.8	1028.8	993.6	954.1
32.5°	1612.7	1604.4	1562.6	1478.4	1373.9	1268.8	1178.1	1123.7	1117.8	1064.6	1014.5
35°	1890.4	1890.4	1803.8	1707.7	1580.5	1446.7	1327.3	1243.1	1237.2	1176.9	1111.8
37.5°	2191.9	2190.7	2112.5	1979.9	1827.7	1664.1	1504.7	1399.6	1385.8	1321.4	1248.5
40°	2492.3	2482.1	2418.8	2292.8	2130.4	1943.5	1723.8	1601.4	1594.8	1502.9	1411.5
42.5°	2712.0	2702.4	2672.6	2588.4	2481.5	2346.6	2008.6	1843.2	1833.7	1717.8	1606.2
45°	2833.2	2819.5	2815.3	2816.5	2828.4	2827.8	2360.3	2129.2	2095.8	1961.4	1812.8
47.5°	2805.7	2773.5	2816.5	2926.9	3112.6	3234.4	2769.9	2469.0	2406.9	2214.6	2033.1
50°	2584.2	2568.7	2660.6	2885.7	3267.3	3553.3	3220.7	2821.8	2734.1	2454.0	2241.5
52.5°	2195.5	2225.4	2338.8	2658.8	3239.2	3746.1	3630.3	3188.5	3066.7	2682.1	2422.4
55°	1747.7	1785.3	1945.3	2284.5	2979.5	3748.5	3925.9	3543.7	3435.1	2918.0	2607.5
57.5°	1271.8	1324.9	1525.0	1836.1	2523.9	3492.4	4071.6	3876.3	3752.1	3150.2	2788.4
60°	798.9	836.5	1054.5	1415.1	1929.2	2926.9	4035.1	4142.6	4039.9	3369.4	2995.0
62.5°	514.7	532.6	626.9	1010.3	1345.2	2146.5	3765.8	4295.5	4251.3	3569.4	3150.8
63°	471.7	487.2	567.8	933.8	1247.3	1977.6	3675.1	4303.2	4277.0	3607.0	3187.3
65°	337.4	354.1	395.9	641.9	920.7	1326.7	3149.1	4231.0	4260.2	3669.7	3236.8
67.5°	266.3	271.7	290.8	389.9	653.2	753.5	2119.1	3799.3	3927.7	3602.8	3163.4
70°	238.2	242.4	263.9	299.1	494.4	488.4	1105.2	3054.7	3320.4	3374.8	2978.3
72.5°	207.8	210.8	237.0	281.8	377.4	373.2	480.7	2054.0	2377.0	2956.8	2722.1
75°	172.0	174.9	197.0	250.2	319.4	295.0	300.9	1073.6	1362.6	2317.9	2387.2
77.5°	141.5	143.3	161.8	201.2	281.2	227.5	232.9	451.4	662.2	1579.9	1885.0
80°	102.7	103.3	120.6	152.9	215.0	205.4	173.2	246.0	300.3	865.8	1185.8
82.5°	71.7	72.2	90.2	106.9	148.1	204.8	126.0	164.8	180.3	398.9	527.8
85°	50.2	49.0	61.5	70.5	93.7	124.2	96.1	105.7	111.7	172.6	142.1
87.5°	22.1	21.5	34.6	37.6	47.2	57.3	76.4	55.5	59.1	83.6	44.8
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°	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3	835.3
2.5°	829.4	831.7	835.3	840.7	844.9	846.7	850.3	850.9	856.2	851.5	852.0
5°	828.2	831.1	838.9	848.5	855.0	859.8	868.8	871.8	877.1	874.7	874.1
7.5°	826.4	831.7	843.1	856.8	867.0	874.7	883.1	888.5	893.8	892.6	891.5
10°	824.0	830.6	846.7	860.4	874.7	883.1	889.1	889.7	891.5	890.3	887.3
12.5°	825.8	832.9	851.5	865.2	880.1	886.1	884.3	875.3	867.6	861.0	859.8
15°	831.7	840.1	857.4	870.0	881.9	878.3	867.6	847.9	833.5	825.2	825.8
17.5°	837.7	844.9	858.0	868.2	874.1	863.4	846.7	830.0	823.4	816.8	815.6
20°	843.1	844.3	852.6	861.6	861.0	852.6	837.1	816.8	803.7	792.9	793.5
22.5°	851.5	846.7	847.3	852.6	859.2	851.5	815.0	779.8	760.1	747.6	747.0
25°	870.6	860.4	850.9	853.8	878.9	829.4	767.9	721.9	704.6	693.2	694.4
27.5°	896.8	883.1	864.0	880.1	893.8	785.8	700.4	653.2	641.3	629.3	632.3
30°	925.5	905.8	882.5	936.8	877.1	716.5	616.8	573.8	563.1	551.7	554.1
32.5°	976.8	947.6	917.1	1004.9	838.3	632.3	529.0	490.2	483.0	475.9	476.5
35°	1062.2	1027.6	994.8	1056.8	788.2	544.5	450.2	422.7	416.8	408.4	408.4
37.5°	1188.2	1133.9	1116.6	1084.3	719.5	462.7	392.3	373.8	361.2	349.9	349.9
40°	1334.5	1270.0	1256.3	1092.7	629.9	394.7	351.7	335.6	318.8	302.1	303.3
42.5°	1512.4	1425.3	1393.6	1081.3	521.3	351.1	323.0	304.5	288.4	274.1	271.7
45°	1713.1	1602.6	1522.6	1048.5	422.7	324.2	304.5	282.4	262.1	249.6	247.2
47.5°	1917.9	1794.9	1636.6	982.8	353.5	305.1	292.0	260.9	246.6	238.2	237.0
50°	2113.7	1985.3	1731.0	879.5	313.5	291.4	273.5	250.8	238.8	231.7	231.1
52.5°	2287.5	2166.2	1810.4	772.6	286.6	280.0	265.1	246.0	233.5	226.9	225.7
55°	2452.8	2349.5	1889.2	677.1	263.3	260.9	260.9	241.2	227.5	221.5	220.3
57.5°	2634.4	2557.9	1968.6	607.2	242.4	247.2	255.6	235.9	220.9	215.5	215.0
60°	2843.9	2799.2	2052.2	545.7	223.9	232.3	247.8	228.7	213.2	209.0	207.8
62.5°	3058.3	3059.5	2124.4	471.7	208.4	220.9	238.8	222.1	206.0	203.0	202.4
63°	3095.9	3106.7	2134.6	455.6	204.8	218.5	236.4	219.7	204.2	201.2	200.6
65°	3188.5	3235.6	2143.0	387.5	191.7	209.6	227.5	212.0	196.4	195.8	194.7
67.5°	3166.4	3243.4	2091.0	303.9	176.7	197.0	215.0	200.6	186.9	186.9	184.5
70°	3001.6	3051.7	1931.6	234.7	165.4	183.9	200.0	188.7	174.4	175.5	170.8
72.5°	2749.0	2694.1	1588.9	183.3	151.7	169.0	182.7	173.2	160.6	159.4	154.0
75°	2378.8	2197.9	1138.1	148.1	134.9	149.3	163.6	156.4	145.1	138.5	137.3
77.5°	1812.8	1560.2	681.9	125.4	120.6	132.6	141.5	136.1	127.2	119.4	120.0
80°	1079.5	899.8	307.5	106.3	104.5	113.4	120.6	116.4	110.5	100.9	98.5
82.5°	437.1	348.1	137.9	86.0	88.4	94.9	101.5	97.9	93.1	90.8	77.0
85°	113.4	109.3	80.6	64.5	68.1	71.1	80.0	80.0	75.8	62.1	57.3
87.5°	32.2	43.0	44.8	40.6	46.0	46.6	55.5	55.5	56.7	38.2	34.6
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)