

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: P348930

Luminaire Tested: **ARCH-N-PA1-50-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348930
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-PA1-50-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6176 lumens
Efficiency: N/A
Efficacy: 118.8 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

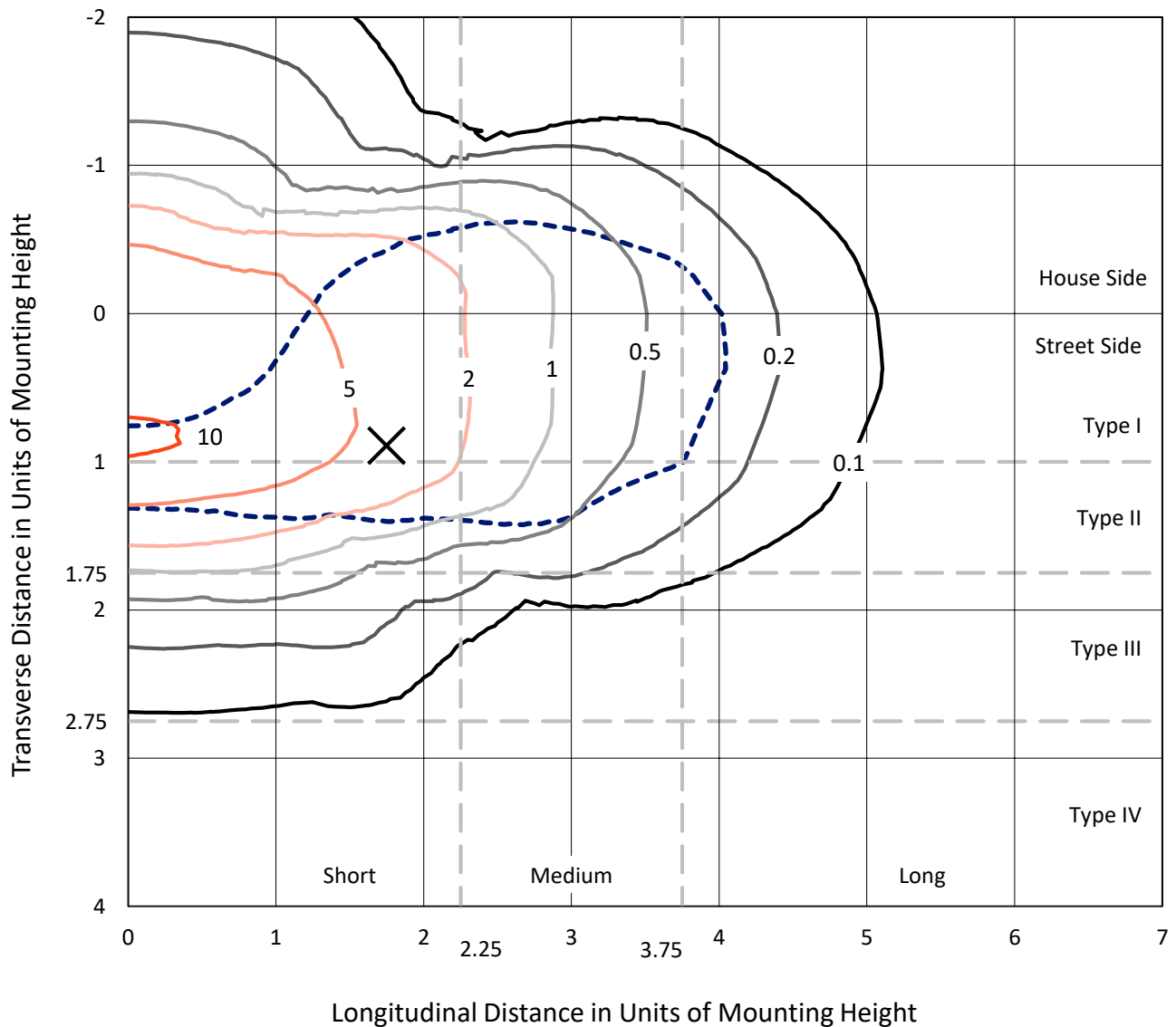
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348930
 CATALOG NUMBER: ARCH-N-PA1-50-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

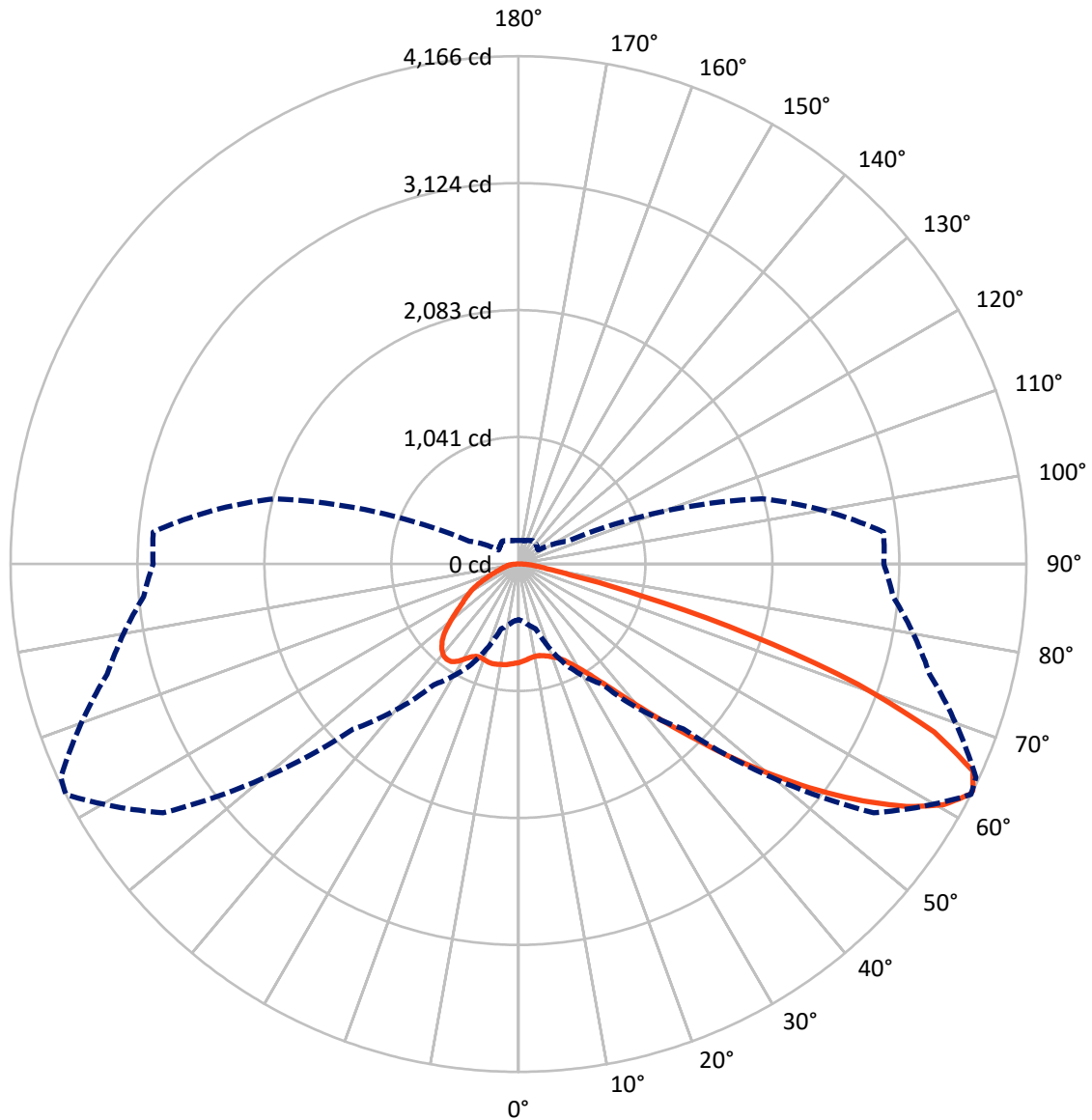
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	1763.2	0.0	1763.2
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	4412.8	0.0	4412.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	6176.0	0.0	6176.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.2
10°-20°	226.4	3.7
20°-30°	397.6	6.4
30°-40°	670.1	10.9
40°-50°	1173.9	19.0
50°-60°	1517.3	24.6
60°-70°	1313.4	21.3
70°-80°	681.8	11.0
80°-90°	118.8	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°	6176.0	100.0
0°-180°	6176.0	100.0



REPORT NUMBER: P348930

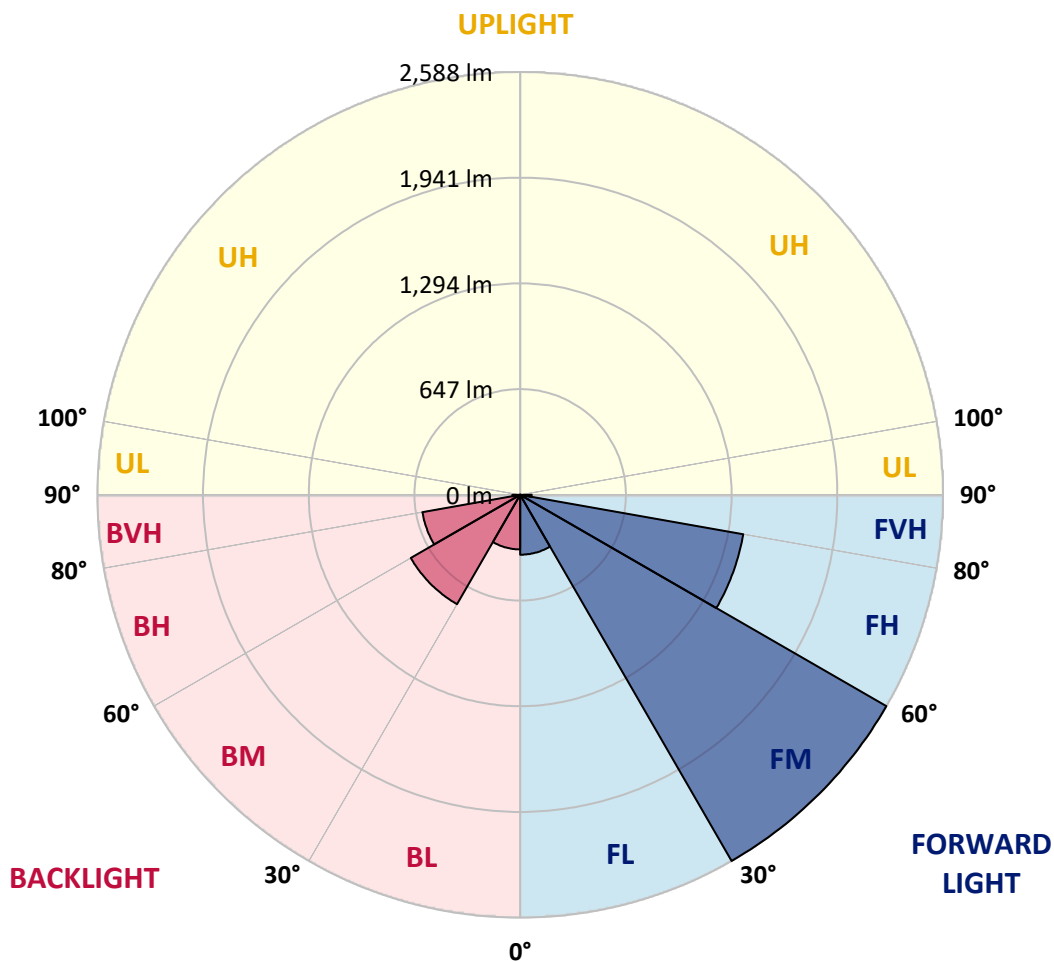
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.7	5.9			
FM (30°-60°)	2588.5	41.9			
FH (60°-80°)	1386.9	22.5			G1/1800
FVH (80°-90°)	70.8	1.1			G1/100
BL (0°-30°)	334.0	5.4	B1/500		
BM (30°-60°)	772.9	12.5	B1/1000		
BH (60°-80°)	608.2	9.8	B2/1000		G2/1000
BVH (80°-90°)	48.0	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





REPORT NUMBER: P348930

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	789.5	787.2	791.3	793.0	792.4	795.9	795.9	796.5	796.5	799.4	802.3
5°	766.4	765.3	769.3	772.2	774.5	779.7	783.2	784.9	786.7	790.7	797.6
7.5°	744.5	742.7	748.5	750.8	754.3	761.8	769.9	774.5	776.8	785.5	795.3
10°	726.5	726.0	730.6	732.9	736.9	747.9	759.5	769.3	771.0	782.6	791.9
12.5°	717.9	716.7	721.9	724.8	731.7	745.0	758.3	770.5	773.4	786.7	794.7
15°	724.8	726.0	730.6	731.2	739.3	753.1	768.2	780.3	783.2	796.5	802.3
17.5°	757.8	757.2	760.1	758.9	761.8	768.7	784.9	794.7	798.2	808.0	812.7
20°	817.3	815.6	817.9	810.4	797.6	794.2	804.0	815.0	816.1	821.9	819.0
22.5°	908.0	909.8	904.6	885.5	854.9	840.4	834.1	837.5	841.6	841.0	832.3
25°	1026.5	1032.3	1022.5	989.0	937.5	904.0	880.9	875.7	878.6	870.5	857.2
27.5°	1182.0	1186.6	1165.2	1113.2	1043.9	994.2	947.9	930.0	930.0	912.7	888.4
30°	1353.1	1356.0	1321.9	1256.0	1175.6	1101.7	1033.5	998.8	995.9	961.8	923.6
32.5°	1561.2	1553.1	1512.6	1431.1	1330.0	1228.2	1140.4	1087.8	1082.0	1030.6	982.0
35°	1829.9	1829.9	1746.1	1653.1	1530.0	1400.5	1284.9	1203.4	1197.6	1139.2	1076.2
37.5°	2121.8	2120.7	2045.0	1916.6	1769.3	1610.9	1456.6	1354.8	1341.5	1279.1	1208.6
40°	2412.6	2402.7	2341.5	2219.5	2062.3	1881.4	1668.7	1550.2	1543.8	1454.8	1366.4
42.5°	2625.3	2616.0	2587.1	2505.6	2402.2	2271.5	1944.4	1784.3	1775.0	1662.9	1554.8
45°	2742.6	2729.3	2725.3	2726.4	2738.0	2737.4	2284.8	2061.1	2028.8	1898.7	1754.8
47.5°	2716.0	2684.8	2726.4	2833.3	3013.1	3131.0	2681.3	2390.0	2329.9	2143.8	1968.1
50°	2501.6	2486.5	2575.6	2793.5	3162.8	3439.7	3117.7	2731.6	2646.7	2375.6	2169.8
52.5°	2125.3	2154.2	2264.0	2573.8	3135.6	3626.4	3514.2	3086.5	2968.6	2596.4	2344.9
55°	1691.8	1728.2	1883.1	2211.4	2884.2	3628.7	3800.3	3430.4	3325.2	2824.7	2524.1
57.5°	1231.1	1282.6	1476.2	1777.3	2443.2	3380.7	3941.4	3752.4	3632.1	3049.5	2699.3
60°	773.4	809.8	1020.7	1369.9	1867.5	2833.3	3906.1	4010.1	3910.7	3261.6	2899.2
62.5°	498.2	515.6	606.9	978.0	1302.2	2077.9	3645.4	4158.1	4115.3	3455.3	3050.1
63°	456.6	471.6	549.7	904.0	1207.4	1914.3	3557.6	4165.6	4140.2	3491.7	3085.4
65°	326.6	342.8	383.2	621.3	891.3	1284.3	3048.4	4095.7	4124.0	3552.4	3133.3
67.5°	257.8	263.0	281.5	377.4	632.3	729.4	2051.3	3677.8	3802.1	3487.6	3062.2
70°	230.6	234.7	255.5	289.6	478.6	472.8	1069.9	2957.0	3214.2	3266.8	2883.1
72.5°	201.1	204.0	229.5	272.8	365.3	361.2	465.3	1988.3	2301.0	2862.2	2635.1
75°	166.5	169.4	190.7	242.2	309.2	285.5	291.3	1039.2	1319.0	2243.8	2310.8
77.5°	137.0	138.7	156.6	194.8	272.2	220.2	225.4	437.0	641.0	1529.4	1824.7
80°	99.4	100.0	116.8	148.0	208.1	198.8	167.6	238.1	290.7	838.1	1147.9
82.5°	69.4	69.9	87.3	103.5	143.3	198.3	122.0	159.5	174.6	386.1	511.0
85°	48.6	47.4	59.5	68.2	90.7	120.2	93.1	102.3	108.1	167.0	137.6
87.5°	21.4	20.8	33.5	36.4	45.7	55.5	74.0	53.8	57.2	80.9	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348930

CATALOG NUMBER: ARCH-N-PA1-50-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	802.8	805.2	808.6	813.8	817.9	819.6	823.1	823.6	828.8	824.2	824.8
5°	801.7	804.6	812.1	821.3	827.7	832.3	841.0	843.9	849.1	846.8	846.2
7.5°	799.9	805.2	816.1	829.4	839.3	846.8	854.9	860.1	865.3	864.1	863.0
10°	797.6	804.0	819.6	832.9	846.8	854.9	860.6	861.2	863.0	861.8	858.9
12.5°	799.4	806.3	824.2	837.5	852.0	857.7	856.0	847.3	839.8	833.5	832.3
15°	805.2	813.2	830.0	842.1	853.7	850.2	839.8	820.8	806.9	798.8	799.4
17.5°	810.9	817.9	830.6	840.4	846.2	835.8	819.6	803.4	797.1	790.7	789.5
20°	816.1	817.3	825.4	834.1	833.5	825.4	810.4	790.7	778.0	767.6	768.2
22.5°	824.2	819.6	820.2	825.4	831.7	824.2	789.0	754.9	735.8	723.7	723.1
25°	842.7	832.9	823.6	826.5	850.8	802.8	743.3	698.8	682.0	671.1	672.2
27.5°	868.2	854.9	836.4	852.0	865.3	760.6	678.0	632.3	620.8	609.2	612.1
30°	895.9	876.8	854.3	906.9	849.1	693.6	597.1	555.5	545.1	534.1	536.4
32.5°	945.6	917.3	887.8	972.8	811.5	612.1	512.1	474.5	467.6	460.7	461.2
35°	1028.3	994.7	962.9	1023.1	763.0	527.1	435.8	409.2	403.4	395.4	395.4
37.5°	1150.2	1097.6	1080.9	1049.6	696.5	447.9	379.7	361.8	349.7	338.7	338.7
40°	1291.8	1229.4	1216.1	1057.7	609.8	382.1	340.4	324.8	308.7	292.5	293.6
42.5°	1464.1	1379.7	1349.0	1046.8	504.6	339.9	312.7	294.8	279.2	265.3	263.0
45°	1658.3	1551.3	1473.9	1015.0	409.2	313.9	294.8	273.4	253.7	241.6	239.3
47.5°	1856.5	1737.5	1584.3	951.4	342.2	295.4	282.6	252.6	238.7	230.6	229.5
50°	2046.1	1921.8	1675.6	851.4	303.4	282.1	264.7	242.8	231.2	224.3	223.7
52.5°	2214.3	2097.0	1752.5	747.9	277.4	271.1	256.6	238.1	226.0	219.6	218.5
55°	2374.4	2274.4	1828.8	655.4	254.9	252.6	252.6	233.5	220.2	214.4	213.3
57.5°	2550.1	2476.1	1905.7	587.8	234.7	239.3	247.4	228.3	213.9	208.7	208.1
60°	2753.0	2709.7	1986.6	528.3	216.7	224.8	239.9	221.4	206.3	202.3	201.1
62.5°	2960.5	2961.7	2056.5	456.6	201.7	213.9	231.2	215.0	199.4	196.5	195.9
63°	2996.9	3007.3	2066.3	441.0	198.3	211.5	228.9	212.7	197.7	194.8	194.2
65°	3086.5	3132.2	2074.4	375.1	185.5	202.9	220.2	205.2	190.2	189.6	188.4
67.5°	3065.1	3139.7	2024.1	294.2	171.1	190.7	208.1	194.2	180.9	180.9	178.6
70°	2905.6	2954.1	1869.8	227.2	160.1	178.0	193.6	182.6	168.8	169.9	165.3
72.5°	2661.1	2607.9	1538.1	177.4	146.8	163.6	176.9	167.6	155.5	154.3	149.1
75°	2302.7	2127.6	1101.7	143.3	130.6	144.5	158.4	151.4	140.5	134.1	132.9
77.5°	1754.8	1510.3	660.1	121.4	116.8	128.3	137.0	131.8	123.1	115.6	116.2
80°	1045.0	871.0	297.7	102.9	101.1	109.8	116.8	112.7	106.9	97.7	95.4
82.5°	423.1	337.0	133.5	83.2	85.5	91.9	98.3	94.8	90.2	87.9	74.6
85°	109.8	105.8	78.0	62.4	65.9	68.8	77.5	77.5	73.4	60.1	55.5
87.5°	31.2	41.6	43.3	39.3	44.5	45.1	53.8	53.8	54.9	37.0	33.5
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)