

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: P397901

Luminaire Tested: **ARCH-S-PA1-60-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7554 lumens
Efficiency: N/A
Efficacy: 118.0 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): 64
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

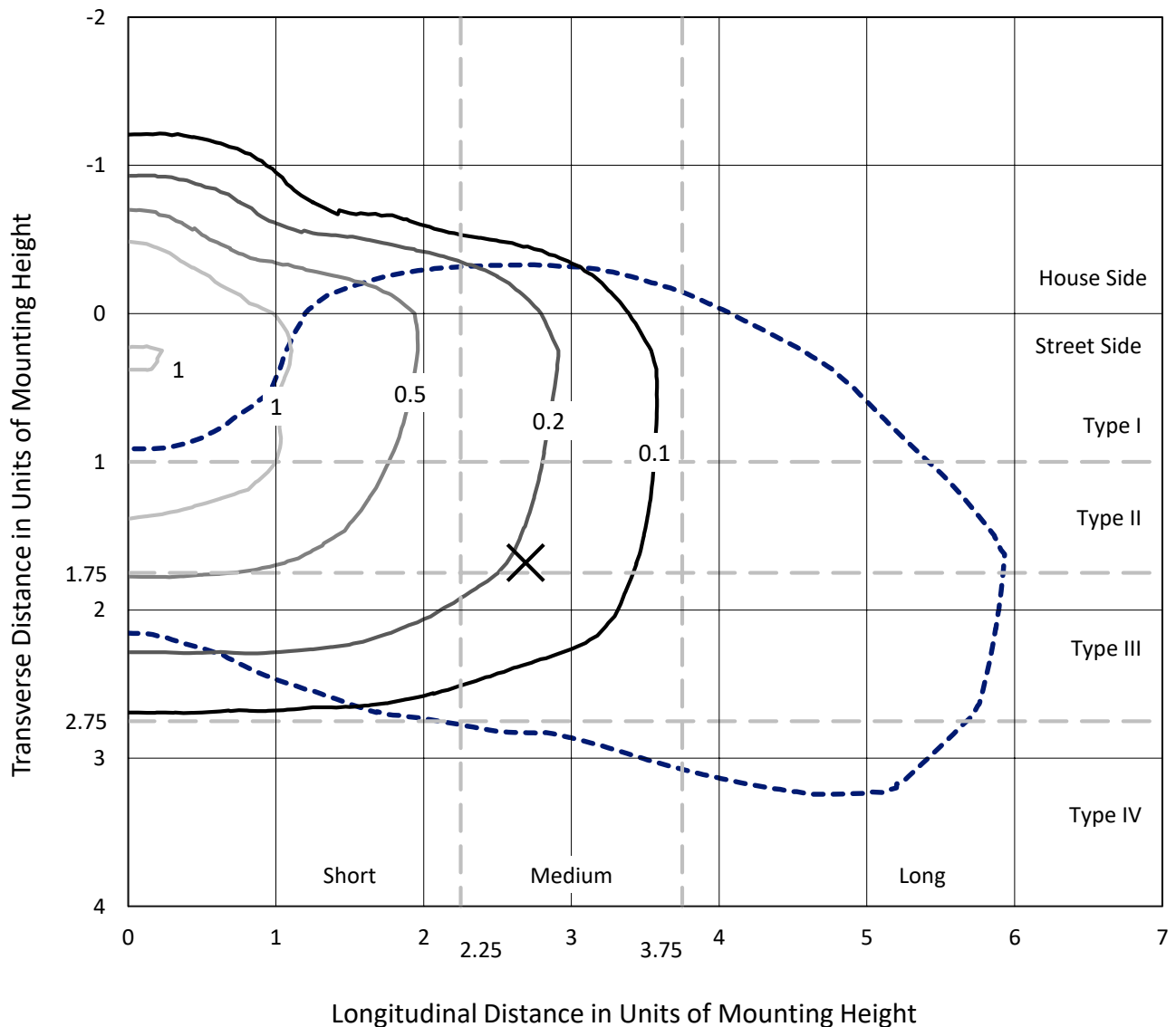


REPORT NUMBER: P397901

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

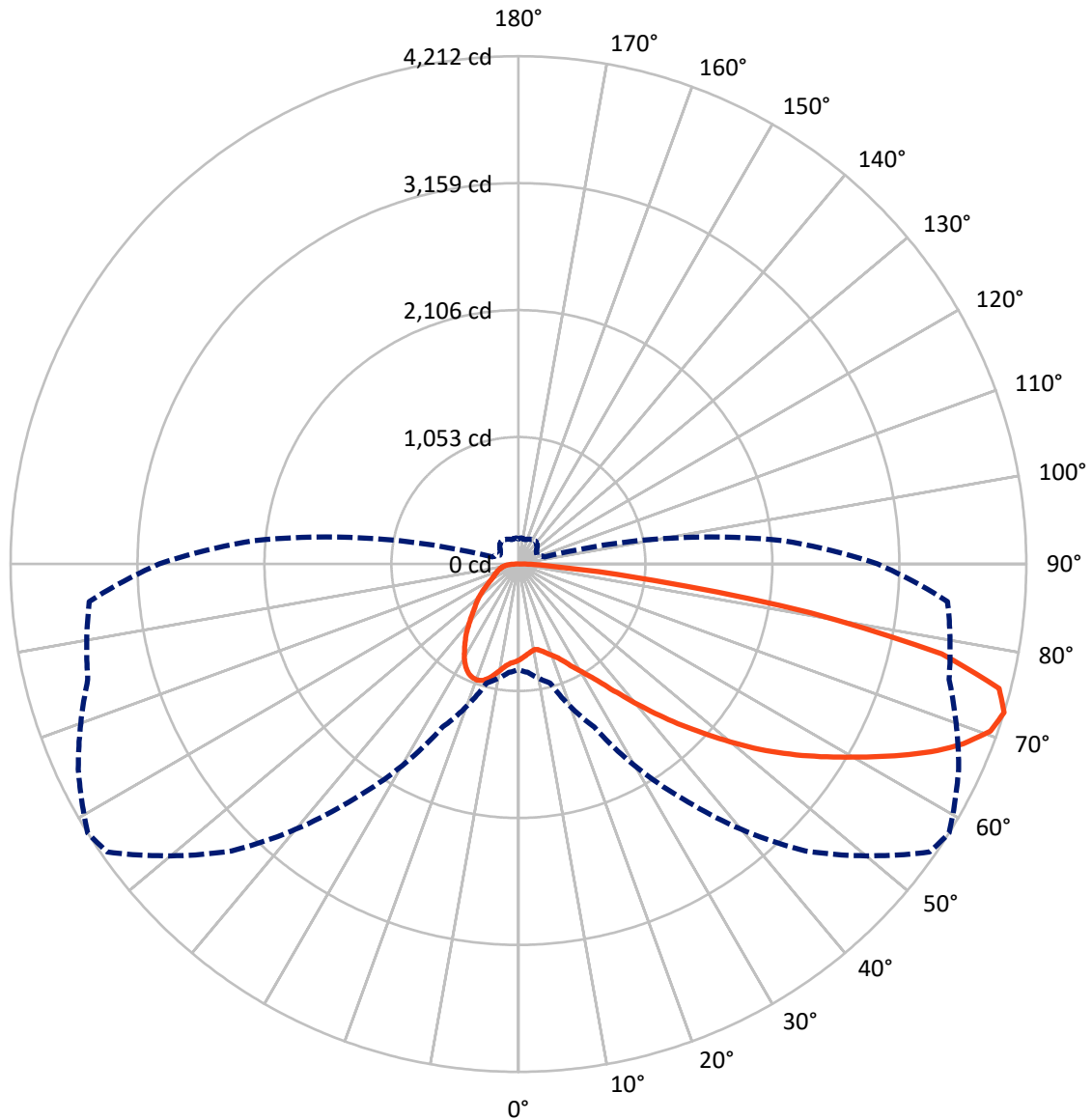


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P397901

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1713.2	0.0	1713.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5840.8	0.0	5840.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	7554.0	0.0	7554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.0
10°-20°	243.8	3.2
20°-30°	436.6	5.8
30°-40°	656.8	8.7
40°-50°	1063.7	14.1
50°-60°	1601.1	21.2
60°-70°	1884.4	24.9
70°-80°	1336.2	17.7
80°-90°	254.6	3.4
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°	7554.0	100.0
0°-180°	7554.0	100.0



REPORT NUMBER: P397901

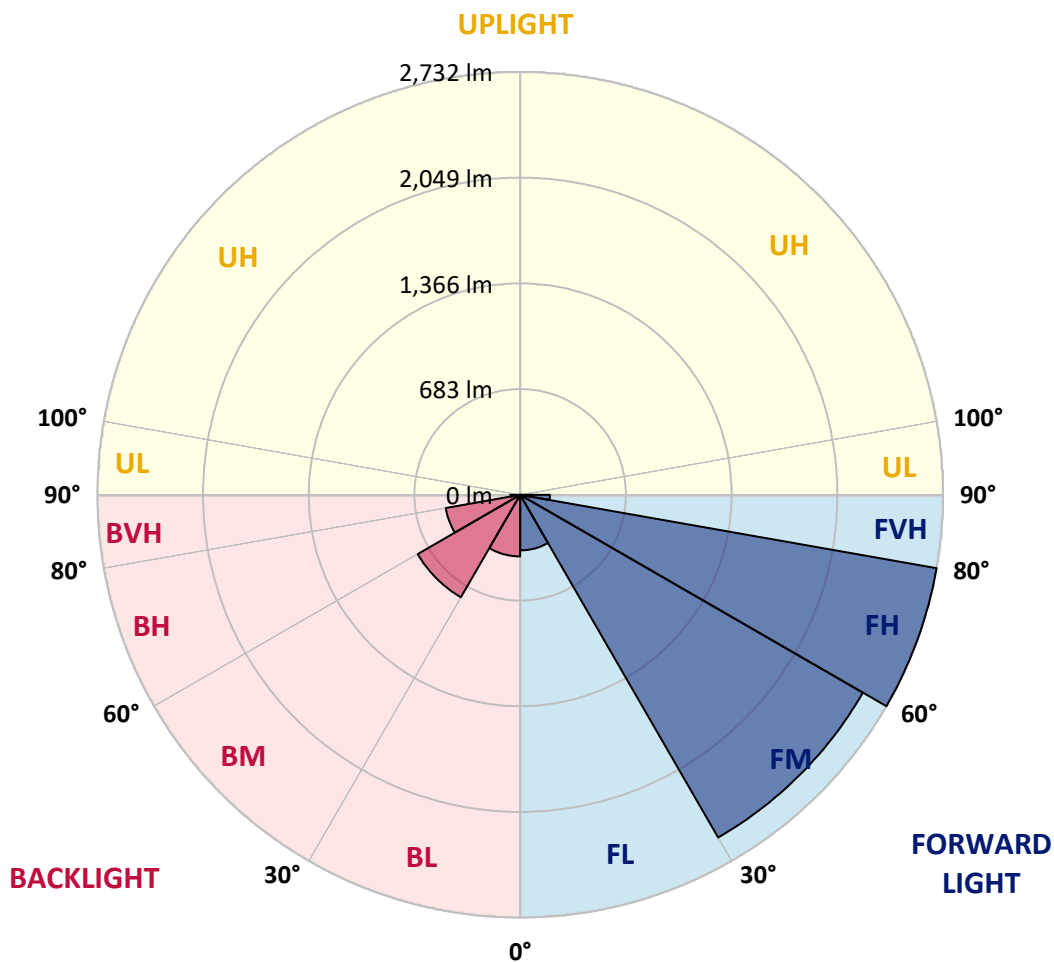
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.2	4.8			
FM	(30°-60°)	2557.2	33.9			
FH	(60°-80°)	2732.3	36.2			G2/5000
FVH	(80°-90°)	192.1	2.5			G2/225
BL	(0°-30°)	397.9	5.3	B1/500		
BM	(30°-60°)	764.4	10.1	B1/1000		
BH	(60°-80°)	488.3	6.5	B1/500		G1/500
BVH	(80°-90°)	62.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P397901

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8
2.5°	766.9	762.9	763.9	763.9	767.9	769.9	770.9	773.9	775.8	780.8	787.8
5°	731.0	728.0	729.0	730.0	737.0	743.9	749.9	753.9	759.9	767.9	777.8
7.5°	705.0	703.0	704.0	706.0	712.0	720.0	730.0	736.0	744.9	759.9	776.8
10°	686.1	686.1	687.1	691.1	697.1	707.0	715.0	722.0	739.9	766.9	792.8
12.5°	671.1	671.1	674.1	682.1	692.1	702.0	721.0	729.0	752.9	789.8	820.7
15°	670.1	671.1	672.1	679.1	690.1	712.0	739.9	751.9	780.8	824.7	860.6
17.5°	686.1	687.1	683.1	685.1	698.1	729.0	765.9	779.8	816.7	864.6	901.5
20°	735.0	735.0	723.0	712.0	721.0	754.9	796.8	810.7	851.6	904.5	941.4
22.5°	834.7	839.7	811.7	787.8	773.9	792.8	830.7	845.7	891.5	948.4	985.3
25°	955.3	960.3	922.4	888.5	862.6	859.6	884.5	900.5	938.4	997.2	1028.1
27.5°	1072.0	1063.0	1028.1	996.2	963.3	936.4	955.3	969.3	1013.2	1058.1	1077.0
30°	1163.8	1156.8	1122.9	1099.9	1069.0	1034.1	1023.2	1038.1	1074.0	1115.9	1125.9
32.5°	1265.5	1260.5	1226.6	1196.7	1170.7	1137.8	1113.9	1120.9	1140.8	1170.7	1176.7
35°	1395.1	1406.1	1370.2	1309.4	1280.4	1248.5	1231.6	1233.6	1248.5	1267.5	1257.5
37.5°	1531.7	1544.7	1546.7	1451.0	1412.1	1383.2	1365.2	1372.2	1390.1	1403.1	1372.2
40°	1785.0	1772.1	1720.2	1649.4	1589.6	1561.7	1536.7	1535.7	1548.7	1571.6	1515.8
42.5°	2121.1	2109.1	2004.4	1912.7	1817.9	1786.0	1737.2	1716.2	1722.2	1751.1	1673.4
45°	2443.2	2438.2	2354.5	2247.8	2134.1	2072.2	1960.6	1909.7	1904.7	1927.6	1834.9
47.5°	2729.4	2707.5	2646.6	2563.9	2551.9	2390.4	2184.9	2116.1	2092.2	2105.2	2001.4
50°	3035.6	2960.8	2877.0	2826.1	2912.9	2762.3	2411.3	2339.5	2280.7	2289.6	2181.9
52.5°	3198.1	3072.5	3017.6	3032.6	3149.3	3091.4	2657.6	2569.9	2475.1	2488.1	2361.4
55°	3058.5	3057.5	3081.4	3174.2	3336.7	3269.9	2892.0	2793.2	2689.5	2692.5	2567.9
57.5°	2867.0	2905.9	3029.6	3234.0	3569.1	3457.4	3122.3	3017.6	2922.9	2907.9	2802.2
60°	2692.5	2735.4	2914.9	3224.0	3649.9	3628.9	3341.7	3250.0	3173.2	3129.3	3048.5
62.5°	2427.3	2459.2	2713.5	3160.2	3582.0	3752.6	3564.1	3501.3	3443.4	3352.7	3313.8
65°	2115.1	2126.1	2394.3	2949.8	3497.3	3800.4	3785.5	3757.6	3701.7	3568.1	3576.1
67.5°	1777.1	1799.0	2034.3	2613.7	3311.8	3778.5	3957.0	3979.9	3914.1	3713.7	3743.6
70°	1417.1	1444.0	1622.5	2149.0	2996.7	3683.8	4115.6	4152.5	4025.8	3761.5	3774.5
72.5°	876.6	902.5	1022.2	1492.9	2375.4	3365.6	4164.4	4212.3	4028.8	3697.7	3573.1
75°	303.2	306.1	399.9	716.0	1410.1	2540.9	4004.9	4117.6	3902.2	3465.4	3109.4
77.5°	138.6	143.6	177.5	295.2	625.3	1371.2	3306.8	3589.0	3517.2	3102.4	2393.4
80°	95.7	97.7	122.7	176.5	361.0	482.7	2087.2	2455.2	2580.8	2402.3	1533.7
82.5°	71.8	73.8	94.7	119.7	260.3	234.3	794.8	1140.8	1418.1	1392.1	641.2
85°	68.8	67.8	73.8	79.8	173.5	139.6	257.3	353.0	553.5	473.7	161.6
87.5°	29.9	32.9	75.8	44.9	90.7	64.8	111.7	130.6	168.5	146.6	57.8
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: P397901

CATALOG NUMBER: ARCH-S-PA1-60-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8
2.5°	790.8	792.8	798.8	807.8	812.7	822.7	829.7	833.7	836.7	837.7	837.7
5°	783.8	787.8	800.8	815.7	829.7	850.6	869.6	880.6	888.5	891.5	892.5
7.5°	785.8	795.8	814.7	836.7	854.6	881.6	904.5	926.4	944.4	951.4	951.4
10°	804.8	818.7	844.7	873.6	896.5	924.4	948.4	967.3	988.3	1000.2	1002.2
12.5°	833.7	850.6	884.5	916.5	942.4	964.3	986.3	1000.2	1010.2	1019.2	1021.2
15°	874.6	895.5	929.4	962.3	985.3	999.2	1005.2	1005.2	1004.2	1005.2	1007.2
17.5°	915.5	935.4	969.3	1002.2	1013.2	1005.2	998.2	996.2	995.2	993.2	994.2
20°	955.3	974.3	1003.2	1028.1	1019.2	991.2	982.3	981.3	978.3	976.3	974.3
22.5°	995.2	1009.2	1033.1	1042.1	1006.2	966.3	955.3	949.4	945.4	940.4	935.4
25°	1041.1	1045.1	1063.0	1049.1	974.3	920.4	904.5	895.5	891.5	886.5	882.5
27.5°	1084.0	1084.0	1087.0	1038.1	927.4	859.6	835.7	819.7	818.7	817.7	816.7
30°	1122.9	1117.9	1107.9	1005.2	866.6	784.8	748.9	733.0	738.9	743.9	744.9
32.5°	1168.8	1158.8	1130.9	960.3	793.8	701.1	657.2	650.2	657.2	663.2	659.2
35°	1240.6	1222.6	1154.8	908.5	724.0	624.3	582.4	572.4	570.4	569.4	561.4
37.5°	1343.3	1312.4	1173.7	852.6	655.2	556.5	525.5	504.6	485.7	465.7	462.7
40°	1468.9	1416.1	1186.7	788.8	582.4	499.6	466.7	439.8	407.9	373.0	369.0
42.5°	1606.5	1527.8	1192.7	718.0	518.6	452.7	411.9	377.9	342.0	315.1	310.1
45°	1755.1	1648.4	1187.7	650.2	466.7	412.9	367.0	330.1	301.2	282.2	278.2
47.5°	1899.7	1787.0	1173.7	596.3	426.8	378.9	332.1	298.2	276.2	255.3	250.3
50°	2085.2	1919.7	1156.8	554.5	382.9	345.0	310.1	274.2	249.3	239.3	237.3
52.5°	2290.6	2052.3	1136.8	501.6	340.1	318.1	296.2	264.3	256.3	237.3	234.3
55°	2513.0	2209.9	1132.9	434.8	302.2	299.2	282.2	273.2	275.2	237.3	232.4
57.5°	2747.4	2378.4	1141.8	368.0	271.2	282.2	288.2	281.2	278.2	242.3	232.4
60°	2991.7	2540.9	1114.9	306.1	247.3	268.3	295.2	277.2	255.3	240.3	233.4
62.5°	3229.0	2677.6	998.2	262.3	229.4	264.3	291.2	262.3	237.3	237.3	234.3
65°	3401.5	2738.4	780.8	230.4	217.4	259.3	284.2	252.3	232.4	239.3	235.3
67.5°	3421.5	2675.6	524.5	205.4	207.4	250.3	268.3	243.3	227.4	245.3	239.3
70°	3298.8	2512.0	321.1	186.5	194.5	234.3	254.3	234.3	220.4	240.3	231.4
72.5°	2980.7	2206.9	226.4	170.5	180.5	219.4	241.3	226.4	210.4	217.4	208.4
75°	2445.2	1710.2	179.5	155.6	166.5	205.4	230.4	214.4	198.4	195.5	189.5
77.5°	1732.2	1096.0	144.6	143.6	151.6	188.5	215.4	200.4	184.5	178.5	174.5
80°	996.2	537.5	124.7	129.6	137.6	171.5	197.5	184.5	169.5	160.6	154.6
82.5°	380.9	187.5	109.7	112.7	121.7	153.6	179.5	168.5	153.6	161.6	135.6
85°	123.7	102.7	89.8	92.7	101.7	127.6	158.6	149.6	132.6	117.7	108.7
87.5°	54.8	55.8	47.9	52.9	63.8	84.8	115.7	109.7	96.7	80.8	77.8
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)