

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: P397975

Luminaire Tested: **ARCH-S-PA1-70-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397975
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-PA1-70-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8368 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

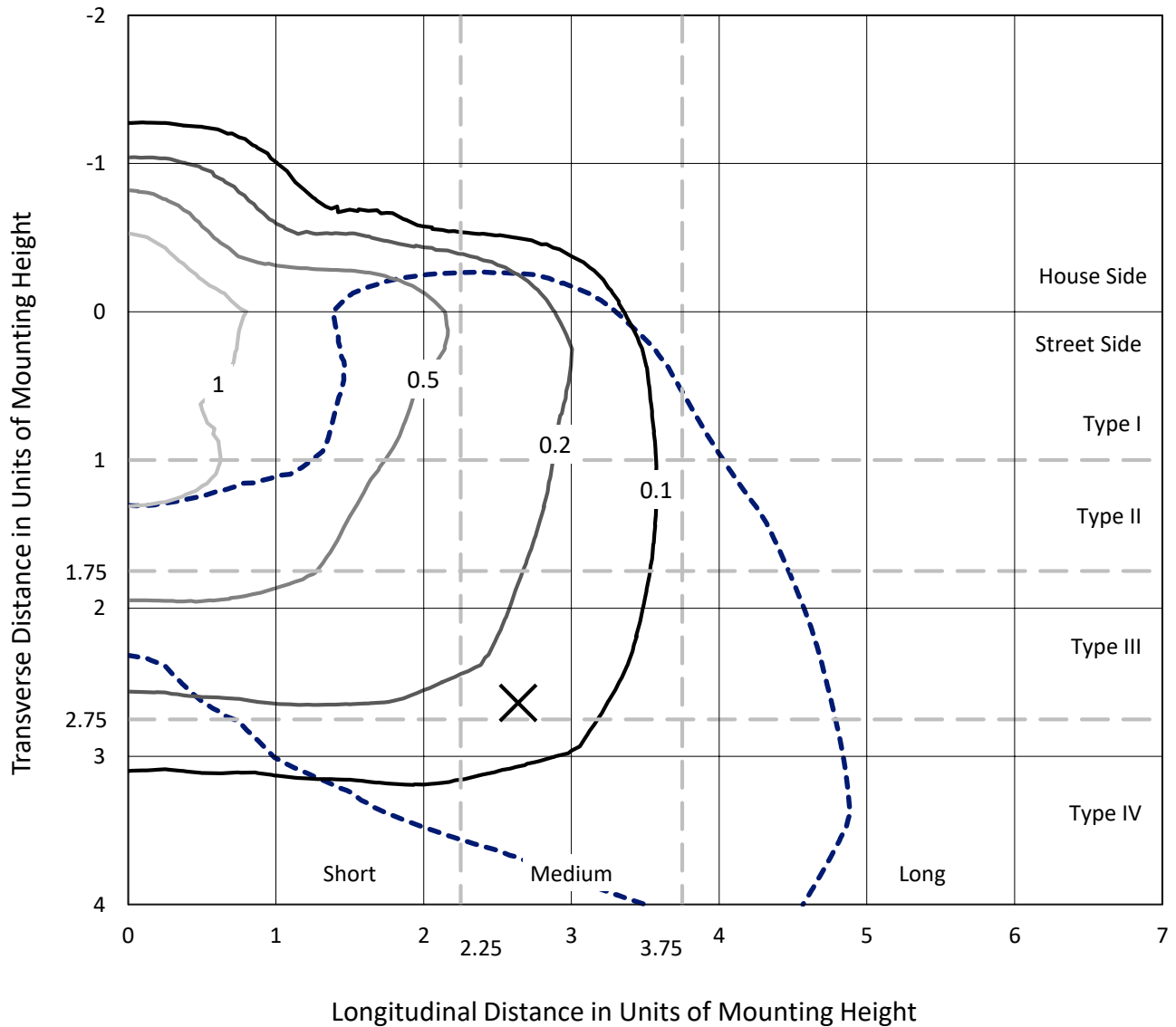
Input Watts (W): 74
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

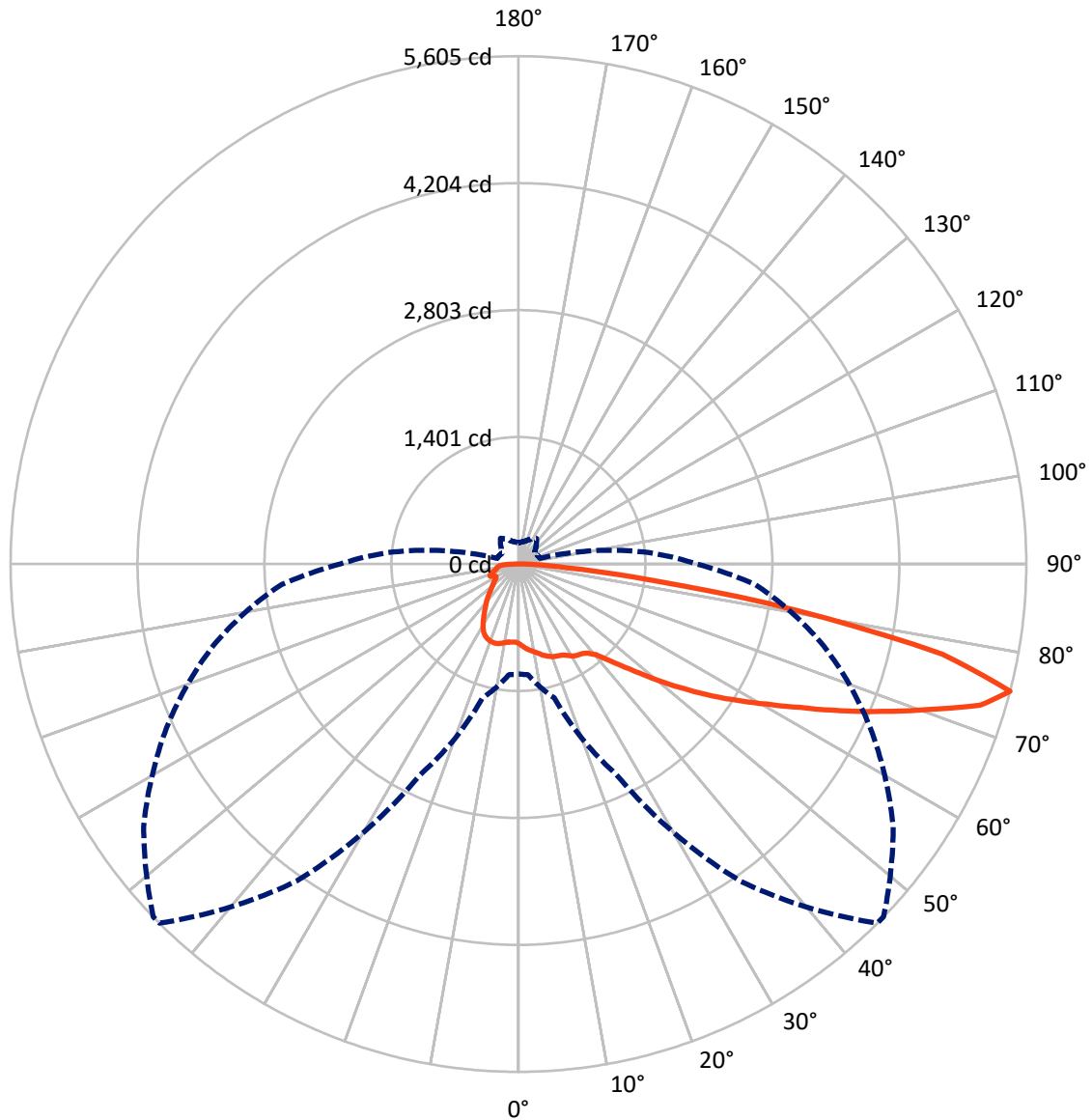
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1849.3	0.0	1849.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	6518.7	0.0	6518.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	8368.0	0.0	8368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.0
10°-20°	276.6	3.3
20°-30°	471.5	5.6
30°-40°	660.7	7.9
40°-50°	970.7	11.6
50°-60°	1544.8	18.5
60°-70°	2197.5	26.3
70°-80°	1840.0	22.0
80°-90°	319.3	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°	8368.0	100.0
0°-180°	8368.0	100.0

Coefficient of Utilization



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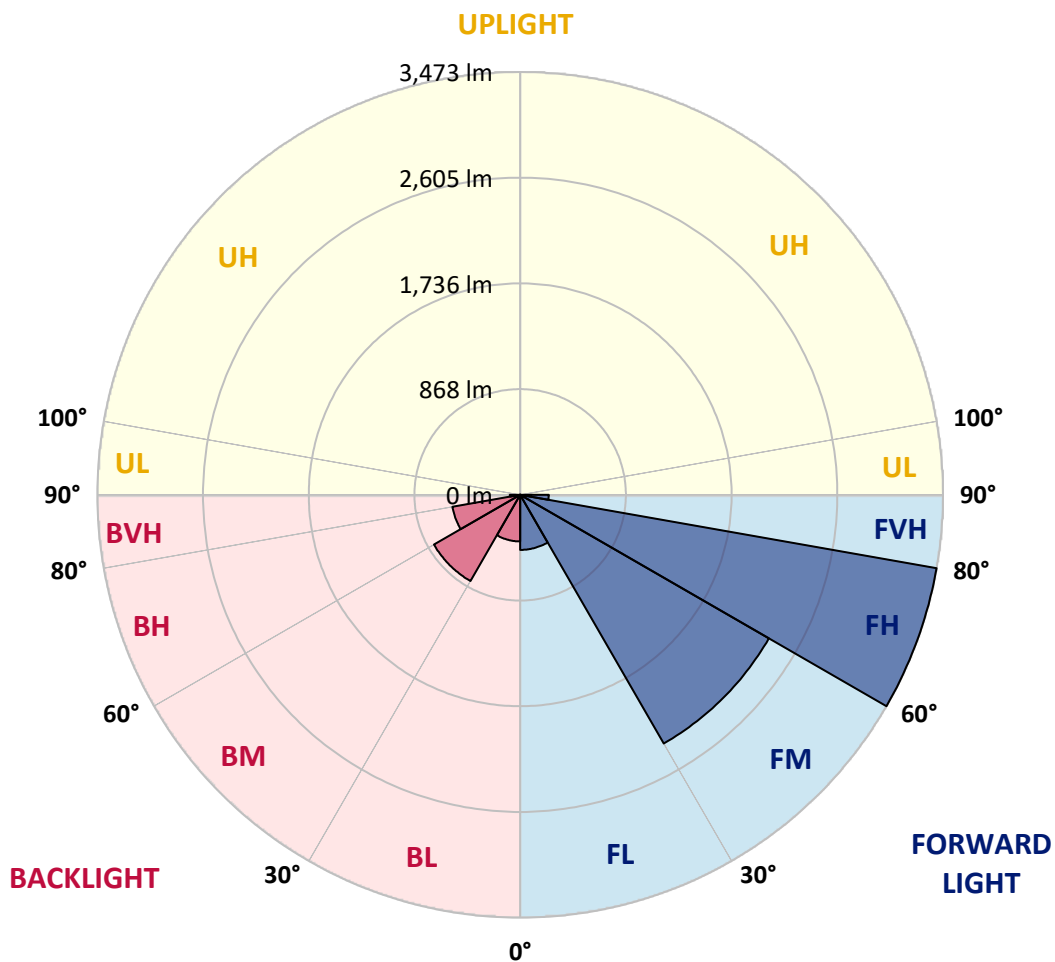
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.3	5.4			
FM (30°-60°)	2358.7	28.2			
FH (60°-80°)	3472.9	41.5			G2/5000
FVH (80°-90°)	234.8	2.8			G3/500
BL (0°-30°)	382.7	4.6	B1/500		
BM (30°-60°)	817.5	9.8	B1/1000		
BH (60°-80°)	564.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	84.6	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8
2.5°	929.1	924.7	922.4	922.4	913.5	907.9	906.8	898.9	892.2	885.5	879.9
5°	982.8	979.5	972.7	967.2	954.9	939.2	937.0	920.2	903.4	887.8	874.4
7.5°	1032.0	1025.3	1017.5	1006.3	986.2	964.9	961.6	938.1	914.6	891.1	873.2
10°	1073.4	1066.7	1055.5	1039.8	1014.1	988.4	985.0	960.4	935.8	907.9	882.2
12.5°	1112.5	1106.9	1090.1	1068.9	1038.7	1015.2	1011.9	990.6	964.9	933.6	900.1
15°	1146.0	1140.5	1122.6	1098.0	1063.3	1045.4	1040.9	1020.8	995.1	961.6	926.9
17.5°	1162.8	1162.8	1143.8	1117.0	1084.6	1071.1	1067.8	1043.2	1019.7	987.3	952.6
20°	1168.4	1170.6	1157.2	1124.8	1096.9	1091.3	1087.9	1067.8	1040.9	1009.6	977.2
22.5°	1171.8	1176.2	1165.1	1128.2	1104.7	1101.3	1099.1	1085.7	1064.4	1034.2	1001.8
25°	1182.9	1182.9	1175.1	1133.7	1114.7	1113.6	1113.6	1105.8	1091.3	1065.5	1033.1
27.5°	1199.7	1198.6	1188.5	1146.0	1137.1	1140.5	1139.3	1138.2	1128.2	1102.4	1067.8
30°	1227.7	1227.7	1216.5	1170.6	1165.1	1179.6	1180.7	1182.9	1167.3	1127.0	1099.1
32.5°	1270.2	1265.7	1254.5	1195.2	1186.3	1199.7	1202.0	1200.8	1187.4	1149.4	1136.0
35°	1401.0	1390.9	1350.7	1250.0	1205.3	1213.1	1214.3	1219.8	1222.1	1191.9	1185.2
37.5°	1630.2	1616.8	1555.3	1379.7	1265.7	1246.7	1245.6	1260.1	1272.4	1245.6	1245.6
40°	1879.5	1868.3	1832.6	1603.3	1377.5	1314.9	1310.4	1323.8	1339.5	1320.5	1326.1
42.5°	2094.2	2103.1	2106.5	1840.4	1545.2	1442.3	1430.0	1411.0	1435.6	1418.9	1441.2
45°	2255.2	2250.7	2312.2	2083.0	1762.1	1602.2	1585.5	1534.0	1565.3	1564.2	1613.4
47.5°	2426.3	2418.4	2444.2	2311.1	2009.2	1797.9	1772.2	1696.2	1743.1	1775.5	1857.2
50°	2588.4	2590.6	2599.6	2491.1	2277.6	2036.1	2003.6	1901.9	1969.0	2037.2	2152.3
52.5°	2799.7	2784.1	2772.9	2701.3	2578.3	2284.3	2263.0	2146.7	2240.7	2321.2	2474.3
55°	2984.2	2974.1	2967.4	2964.1	2829.9	2558.2	2535.8	2415.1	2550.4	2607.4	2833.3
57.5°	3181.0	3175.4	3211.2	3268.2	3214.5	2836.6	2813.1	2696.8	2847.8	2888.0	3222.4
60°	3325.2	3328.6	3427.0	3572.3	3535.4	3138.5	3110.5	3007.7	3137.4	3173.2	3611.4
62.5°	3326.3	3359.9	3588.0	3848.5	3891.0	3486.2	3453.8	3342.0	3434.8	3434.8	3960.3
65°	3008.8	3046.8	3558.9	3916.7	4251.0	3899.9	3868.6	3693.1	3727.7	3680.8	4287.9
67.5°	2692.4	2737.1	3219.0	3922.3	4503.7	4342.7	4305.8	4044.2	3984.9	3866.4	4517.1
70°	2482.2	2513.5	2916.0	3849.6	4655.7	4805.6	4777.6	4377.3	4187.3	4021.8	4469.0
72.5°	2089.7	2078.5	2463.2	3504.1	4740.7	5331.1	5307.6	4739.6	4362.8	3948.0	3811.6
75°	1213.1	1226.6	1528.4	2567.1	4273.4	5605.0	5602.8	5049.3	4285.7	3487.3	2626.4
77.5°	350.0	360.0	502.0	1128.2	2702.4	4781.0	4934.2	4617.7	3622.6	2485.5	1361.8
80°	153.2	161.0	218.0	375.7	1163.9	3122.8	3257.0	3122.8	2184.8	1140.5	534.4
82.5°	90.6	96.2	142.0	232.6	557.9	1485.9	1667.1	1455.8	942.6	484.1	221.4
85°	51.4	53.7	81.6	147.6	351.1	519.9	583.6	546.7	459.5	275.1	116.3
87.5°	23.5	24.6	40.3	69.3	196.8	175.5	182.2	241.5	266.1	167.7	58.1
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°	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8	878.8
2.5°	877.7	874.4	867.6	865.4	862.1	863.2	864.3	864.3	865.4	862.1	862.1
5°	868.8	863.2	856.5	856.5	856.5	865.4	873.2	877.7	879.9	879.9	877.7
7.5°	865.4	858.7	850.9	853.1	855.3	866.5	881.1	895.6	900.1	900.1	897.8
10°	872.1	865.4	859.8	863.2	868.8	877.7	888.9	902.3	913.5	914.6	913.5
12.5°	887.8	879.9	874.4	881.1	887.8	893.4	898.9	904.5	919.1	921.3	921.3
15°	913.5	905.7	898.9	904.5	906.8	906.8	906.8	906.8	921.3	923.5	923.5
17.5°	939.2	932.5	925.8	926.9	920.2	911.2	907.9	906.8	914.6	921.3	922.4
20°	963.8	958.2	951.5	940.3	923.5	906.8	901.2	901.2	905.7	915.7	915.7
22.5°	990.6	983.9	972.7	947.0	919.1	895.6	890.0	893.4	898.9	912.4	911.2
25°	1020.8	1011.9	992.9	944.8	904.5	876.6	877.7	887.8	897.8	912.4	912.4
27.5°	1054.4	1042.1	1004.0	926.9	872.1	845.3	855.3	878.8	893.4	909.0	911.2
30°	1091.3	1080.1	1013.0	895.6	819.6	795.0	819.6	857.6	879.9	894.5	897.8
32.5°	1136.0	1127.0	1020.8	855.3	751.4	730.1	765.9	812.9	848.6	865.4	868.8
35°	1191.9	1182.9	1030.9	809.5	687.6	665.3	697.7	745.8	792.7	814.0	820.7
37.5°	1264.6	1251.1	1039.8	760.3	634.0	608.2	623.9	667.5	710.0	739.1	746.9
40°	1357.4	1336.1	1047.7	704.4	587.0	557.9	563.5	584.8	609.4	635.1	645.1
42.5°	1488.2	1445.7	1048.8	645.1	538.9	512.1	509.9	516.6	516.6	516.6	519.9
45°	1670.4	1589.9	1051.0	589.2	489.7	461.8	455.1	452.8	436.1	403.6	401.4
47.5°	1900.8	1778.9	1061.1	542.3	438.3	413.7	404.8	395.8	364.5	331.0	324.2
50°	2195.9	1998.0	1081.2	497.6	394.7	377.9	366.7	345.5	310.8	285.1	278.4
52.5°	2535.8	2258.6	1100.2	450.6	362.3	351.1	337.7	311.9	275.1	259.4	257.2
55°	2926.1	2549.3	1138.2	409.2	334.3	326.5	314.2	289.6	261.6	250.5	249.3
57.5°	3325.2	2874.6	1191.9	372.3	307.5	303.0	303.0	281.8	263.9	259.4	259.4
60°	3709.8	3154.1	1150.5	337.7	282.9	285.1	306.4	300.8	287.4	292.9	296.3
62.5°	4008.4	3318.5	933.6	309.7	265.0	285.1	339.9	339.9	324.2	322.0	322.0
65°	4135.8	3316.3	656.3	288.5	258.3	313.1	379.0	361.1	319.8	304.1	300.8
67.5°	4103.4	3170.9	452.8	273.9	256.0	342.1	396.9	346.6	299.6	286.2	276.2
70°	3818.3	2863.4	348.8	260.5	252.7	329.8	391.3	329.8	284.0	271.7	262.8
72.5°	3080.4	2296.6	289.6	247.1	239.3	305.2	372.3	314.2	271.7	258.3	249.3
75°	1964.5	1444.6	244.9	229.2	213.6	273.9	346.6	298.5	258.3	240.4	233.7
77.5°	944.8	622.8	213.6	208.0	192.3	253.8	320.9	278.4	240.4	225.9	221.4
80°	382.4	285.1	185.6	186.7	176.7	241.5	303.0	259.4	222.5	206.8	199.0
82.5°	199.0	165.5	156.5	161.0	161.0	230.3	289.6	243.7	206.8	200.1	174.4
85°	107.3	102.9	120.8	129.7	139.8	208.0	269.5	227.0	189.0	162.1	156.5
87.5°	52.6	67.1	68.2	78.3	97.3	166.6	227.0	190.1	157.7	130.8	128.6
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)