

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: P397953

Luminaire Tested: **ARCH-S-PA1-60-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7193 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

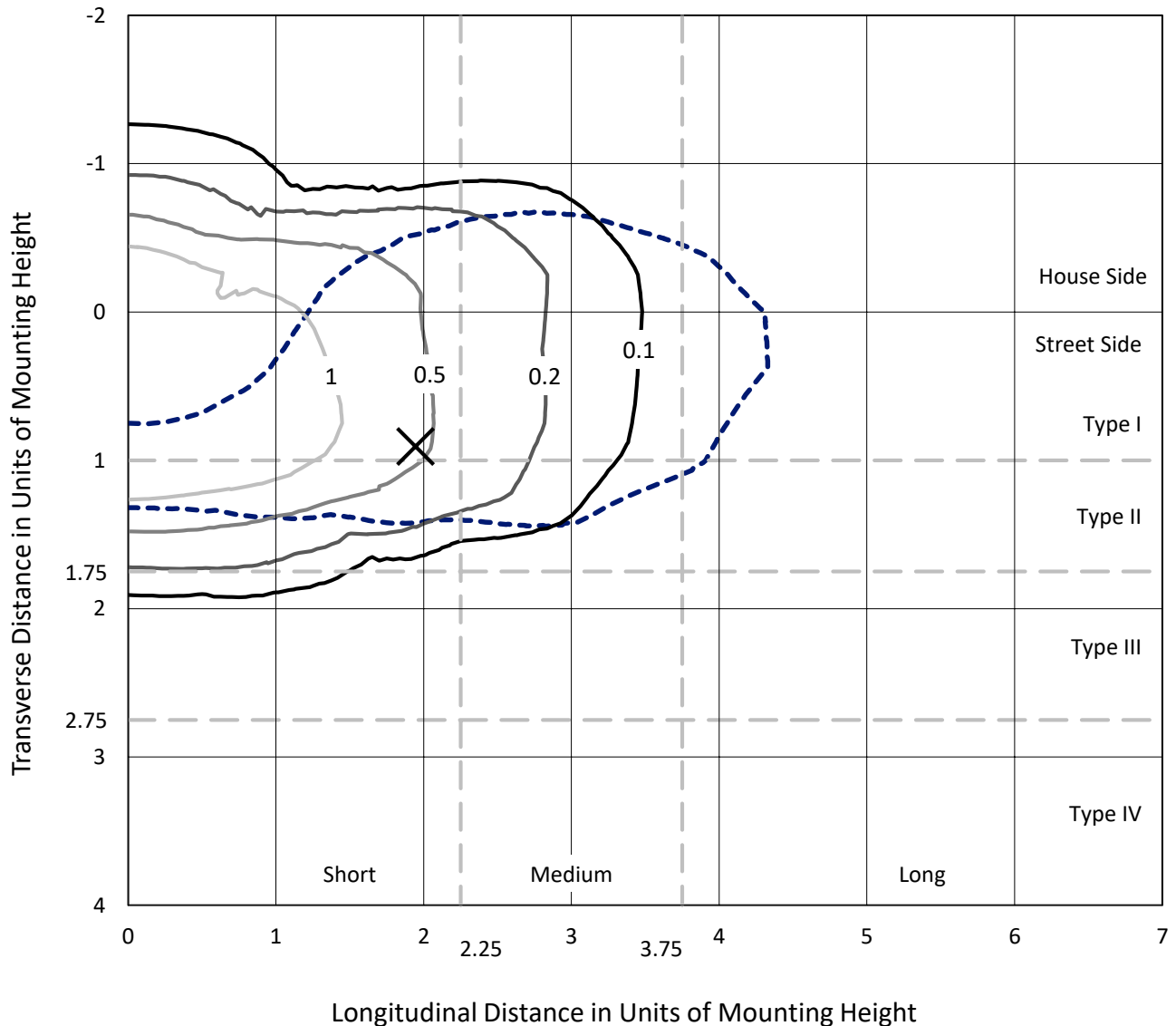
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

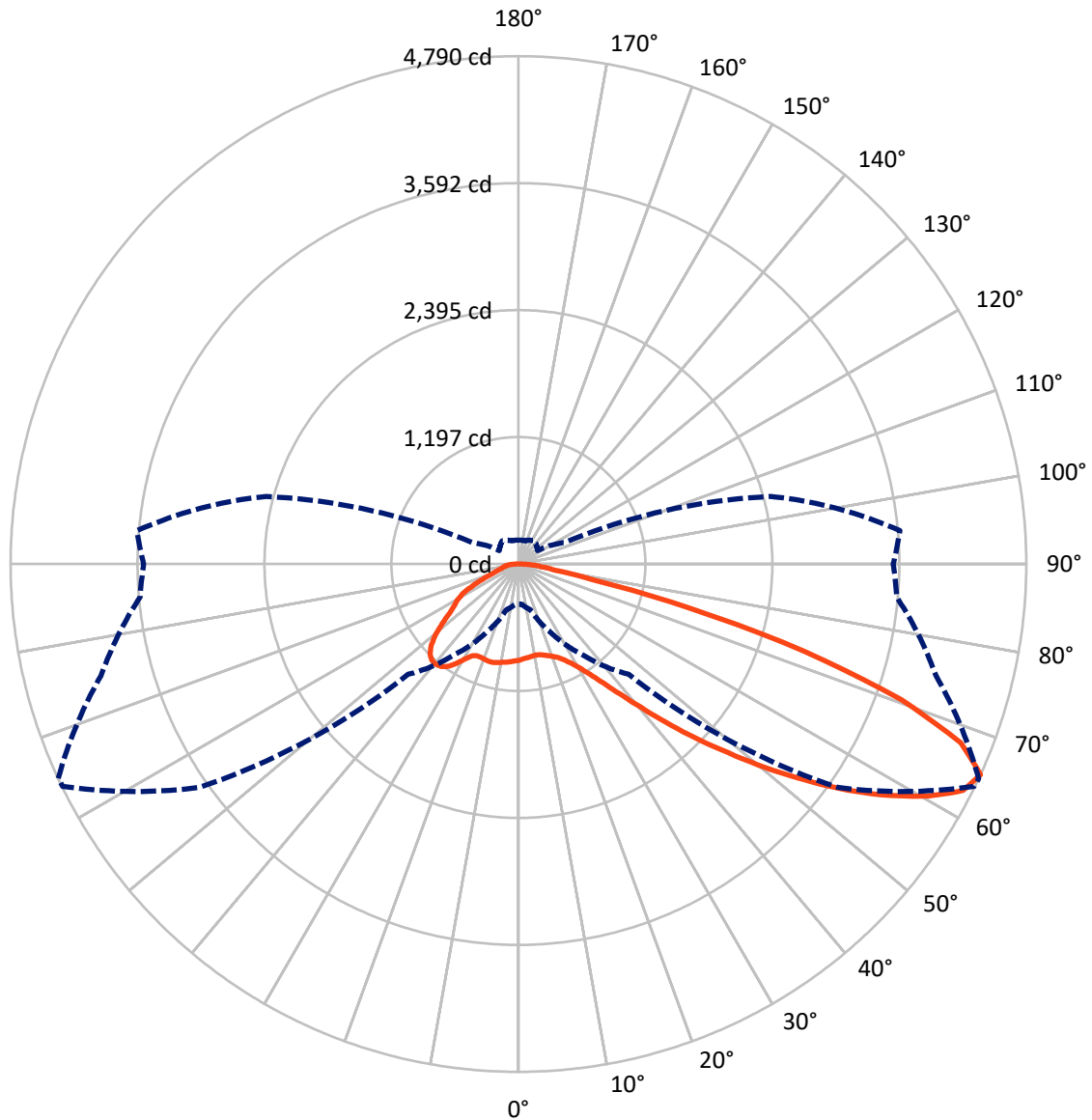
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.6	0.0	2079.6
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	5113.4	0.0	5113.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.2
10°-20°	258.5	3.6
20°-30°	459.2	6.4
30°-40°	776.9	10.8
40°-50°	1352.4	18.8
50°-60°	1747.8	24.3
60°-70°	1529.4	21.3
70°-80°	831.9	11.6
80°-90°	150.3	2.1
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°	7193.0	100.0
0°-180°	7193.0	100.0

Coefficient of Utilization



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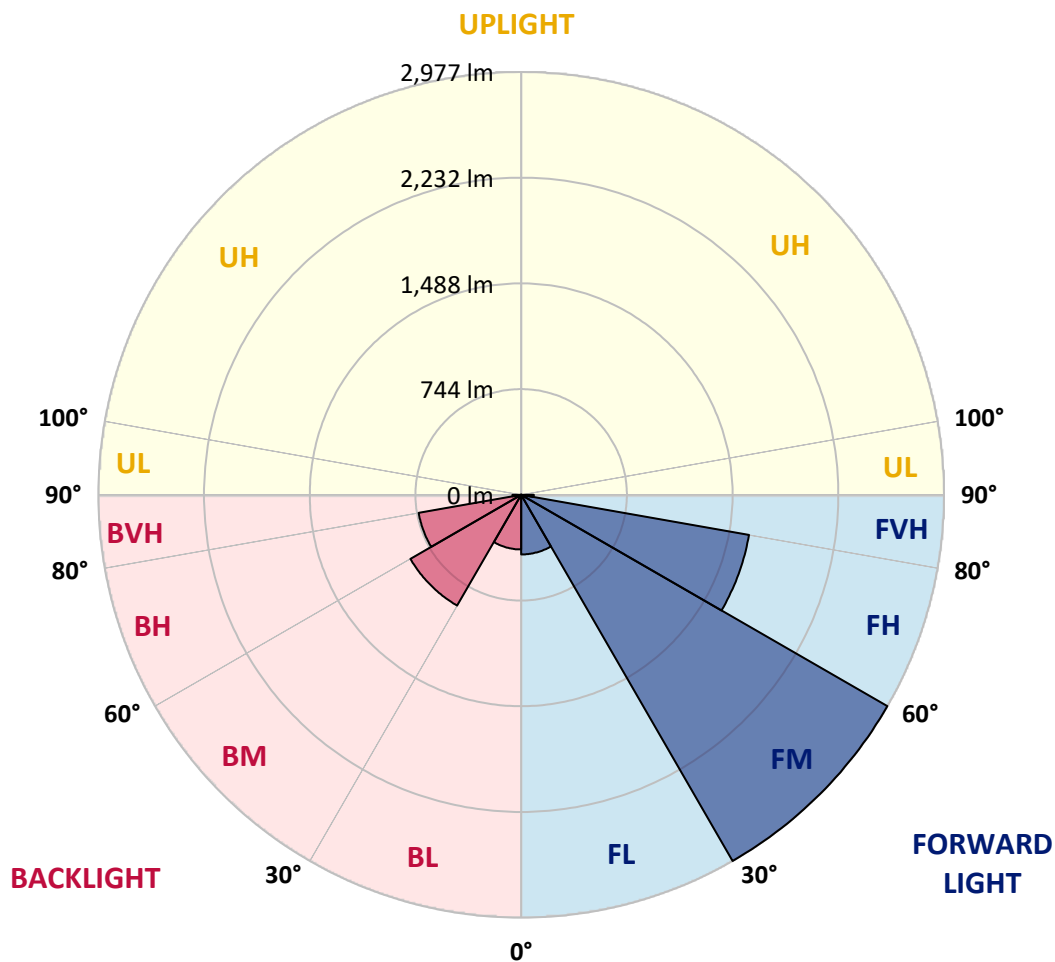
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.7	5.8			
FM	(30°-60°)	2976.7	41.4			
FH	(60°-80°)	1628.6	22.6			G1/1800
FVH	(80°-90°)	88.5	1.2			G1/100
BL	(0°-30°)	384.7	5.3	B1/500		
BM	(30°-60°)	900.4	12.5	B1/1000		
BH	(60°-80°)	732.7	10.2	B2/1000		G2/1000
BVH	(80°-90°)	61.9	0.9			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°	64°	65°	75°	85°
0°	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9
2.5°	892.8	891.9	890.0	891.9	892.8	894.7	893.8	895.6	894.7	897.5	902.3
5°	870.1	868.2	867.2	872.0	874.8	879.6	881.4	888.1	887.1	891.9	899.4
7.5°	844.5	844.5	843.6	849.3	853.0	861.6	868.2	879.6	880.5	889.0	897.5
10°	824.6	825.6	824.6	829.4	835.1	845.5	856.8	872.9	873.9	886.2	894.7
12.5°	817.1	817.1	817.1	823.7	831.3	845.5	858.7	875.8	877.7	890.9	898.5
15°	827.5	828.4	826.5	833.2	841.7	858.7	871.0	889.0	890.9	903.2	908.0
17.5°	864.4	868.2	863.5	867.2	865.4	878.6	890.0	908.0	908.9	919.3	921.2
20°	937.3	941.1	933.5	928.8	911.7	910.8	915.5	929.7	929.7	936.4	931.6
22.5°	1050.0	1053.8	1040.5	1022.5	981.8	961.9	951.5	958.1	957.2	960.0	947.7
25°	1199.6	1198.6	1182.5	1149.4	1084.1	1035.8	1010.2	999.8	999.8	994.1	979.0
27.5°	1385.1	1370.9	1342.5	1302.8	1211.9	1144.7	1089.7	1063.2	1058.5	1041.5	1013.1
30°	1583.0	1572.6	1531.9	1474.1	1369.0	1282.9	1192.0	1139.0	1136.1	1099.2	1056.6
32.5°	1815.9	1798.9	1753.4	1684.3	1558.4	1437.2	1323.6	1243.1	1238.4	1179.7	1121.0
35°	2115.1	2100.9	2012.8	1943.7	1781.8	1622.8	1488.3	1381.3	1377.6	1305.6	1230.8
37.5°	2473.9	2437.0	2351.8	2222.1	2051.7	1863.3	1692.8	1558.4	1553.7	1474.1	1379.5
40°	2793.9	2760.8	2685.1	2565.8	2383.0	2173.8	1942.8	1779.9	1775.2	1678.6	1559.3
42.5°	3030.6	3007.9	2958.7	2889.6	2758.9	2632.0	2261.8	2047.9	2039.4	1914.4	1765.7
45°	3167.9	3149.9	3121.5	3138.6	3136.7	3113.0	2642.5	2366.9	2339.5	2177.6	1995.8
47.5°	3134.8	3118.7	3130.0	3262.6	3445.3	3582.6	3085.5	2693.6	2656.7	2445.5	2241.0
50°	2895.2	2901.9	2961.5	3215.3	3625.2	3930.1	3576.9	3065.7	3016.4	2715.4	2473.9
52.5°	2458.8	2474.9	2619.7	2974.8	3605.3	4155.4	4021.0	3450.1	3384.7	2978.6	2686.0
55°	1953.2	1993.9	2181.4	2554.4	3345.9	4171.5	4356.1	3836.3	3764.4	3225.7	2870.6
57.5°	1444.8	1505.4	1722.2	2064.9	2848.8	3916.8	4523.7	4205.6	4118.5	3470.9	3065.7
60°	916.5	953.4	1203.4	1607.6	2180.4	3293.8	4501.9	4519.9	4444.2	3715.1	3269.2
62.5°	585.1	603.1	729.0	1146.5	1524.3	2438.9	4264.3	4757.5	4706.4	3937.6	3462.4
65°	375.9	383.4	447.8	705.3	1037.7	1472.2	3672.5	4783.1	4789.7	4076.8	3581.7
67.5°	305.8	309.6	333.3	435.5	733.8	813.3	2558.2	4419.5	4500.0	4040.8	3540.9
70°	278.4	283.1	307.7	347.5	568.1	561.4	1238.4	3698.1	3829.7	3833.5	3360.1
72.5°	234.8	241.4	274.6	328.5	439.3	443.1	524.5	2633.9	2828.0	3426.4	3088.4
75°	196.0	199.8	228.2	289.7	372.1	354.1	368.3	1396.5	1676.7	2747.5	2799.6
77.5°	159.1	162.8	183.7	231.0	330.4	275.5	289.7	578.5	714.8	1865.1	2288.4
80°	113.6	117.4	141.1	179.9	249.9	248.1	214.9	319.1	346.5	1008.3	1486.4
82.5°	81.4	84.3	107.0	128.8	173.3	249.0	161.9	216.8	227.2	446.9	599.3
85°	54.9	54.9	73.8	85.2	111.7	157.2	130.7	146.8	153.4	212.1	161.9
87.5°	23.7	23.7	39.8	43.6	58.7	72.9	97.5	73.8	75.7	114.6	66.3
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°	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9	908.9
2.5°	905.1	906.1	908.0	913.6	917.4	923.1	925.9	929.7	929.7	927.8	928.8
5°	903.2	906.1	912.7	923.1	929.7	940.1	947.7	953.4	955.3	953.4	954.4
7.5°	902.3	907.0	918.4	933.5	943.0	956.2	966.7	973.3	978.0	976.1	977.1
10°	899.4	907.0	921.2	940.1	954.4	967.6	977.1	979.9	982.8	980.9	979.9
12.5°	903.2	911.7	926.9	949.6	965.7	976.1	979.0	974.2	967.6	963.8	962.9
15°	910.8	919.3	934.5	958.1	972.3	976.1	969.5	954.4	939.2	930.7	929.7
17.5°	921.2	926.9	939.2	960.0	971.4	966.7	953.4	935.4	924.1	917.4	918.4
20°	927.8	927.8	937.3	953.4	962.9	959.1	943.0	923.1	905.1	896.6	893.8
22.5°	937.3	932.6	933.5	947.7	961.0	955.3	921.2	886.2	860.6	851.2	850.2
25°	962.9	949.6	941.1	949.6	980.9	934.5	866.3	825.6	801.9	793.4	794.3
27.5°	994.1	976.1	958.1	972.3	997.0	887.1	796.2	749.8	735.6	729.0	731.9
30°	1025.4	1001.7	978.0	1029.1	985.6	813.3	706.3	660.8	648.5	643.8	647.6
32.5°	1083.1	1044.3	1015.9	1104.9	950.6	729.0	608.8	567.1	555.8	550.1	548.2
35°	1179.7	1130.5	1102.0	1171.2	901.3	635.3	519.8	490.4	478.1	465.8	463.9
37.5°	1318.9	1259.2	1233.6	1209.0	832.2	542.5	451.6	431.7	413.7	394.8	393.9
40°	1485.5	1407.9	1388.9	1226.1	736.6	455.4	404.3	385.3	362.6	344.6	345.6
42.5°	1677.7	1578.3	1537.6	1221.3	618.2	409.0	370.2	349.4	329.5	313.4	312.4
45°	1883.1	1770.5	1676.7	1188.2	500.8	376.8	349.4	324.7	304.9	286.9	285.0
47.5°	2110.4	1984.4	1805.5	1123.8	413.7	354.1	337.1	302.0	284.0	272.7	272.7
50°	2339.5	2188.9	1923.8	1026.3	362.6	337.1	319.1	289.7	275.5	266.0	266.0
52.5°	2535.5	2402.0	2021.4	909.9	330.4	322.9	306.8	284.0	268.9	260.4	259.4
55°	2725.8	2599.8	2108.5	794.3	303.9	303.9	303.9	279.3	262.3	254.7	253.7
57.5°	2915.1	2808.1	2199.4	718.6	280.2	287.8	298.2	273.6	256.6	249.9	249.0
60°	3129.1	3058.1	2304.5	665.6	259.4	270.8	290.7	267.0	247.1	241.4	240.5
62.5°	3356.3	3356.3	2400.1	590.8	240.5	256.6	279.3	258.5	238.6	233.9	232.9
65°	3534.3	3611.0	2461.6	479.1	221.5	242.4	266.0	247.1	227.2	226.3	224.4
67.5°	3555.1	3675.4	2422.8	361.7	204.5	227.2	252.8	234.8	215.9	215.9	213.0
70°	3405.6	3527.7	2301.6	270.8	192.2	212.1	235.7	219.7	201.7	203.6	198.8
72.5°	3155.6	3185.9	2000.5	214.0	178.0	196.0	214.9	202.6	186.5	186.5	179.9
75°	2826.1	2657.6	1453.3	178.9	161.0	177.0	194.1	183.7	169.5	164.7	161.0
77.5°	2249.5	1925.7	844.5	154.3	146.8	159.1	170.4	162.8	150.5	140.1	140.1
80°	1370.9	1128.6	373.0	133.5	129.7	139.2	146.8	138.2	127.8	117.4	114.6
82.5°	521.7	435.5	180.8	114.6	113.6	119.3	125.0	116.5	108.9	104.1	89.9
85°	143.0	131.6	124.0	95.6	93.7	92.8	99.4	95.6	85.2	70.1	62.5
87.5°	54.0	61.5	67.2	58.7	62.5	57.8	66.3	60.6	54.0	35.0	31.2
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)