

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: P397955

Luminaire Tested: **ARCH-S-PA1-60-830-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397955  
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-PA1-60-830-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7178 lumens  
Efficiency: N/A  
Efficacy: 112.2 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

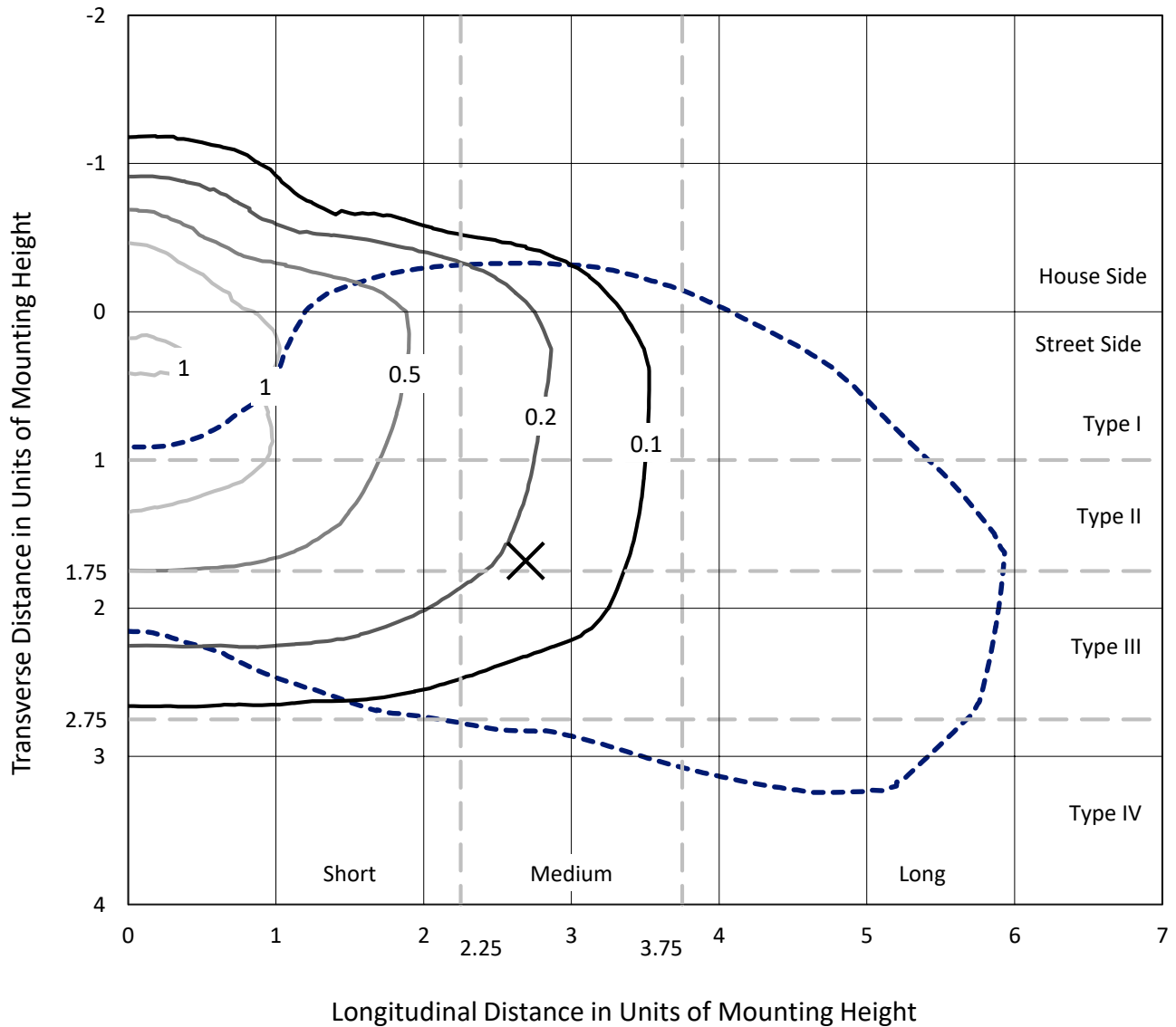


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

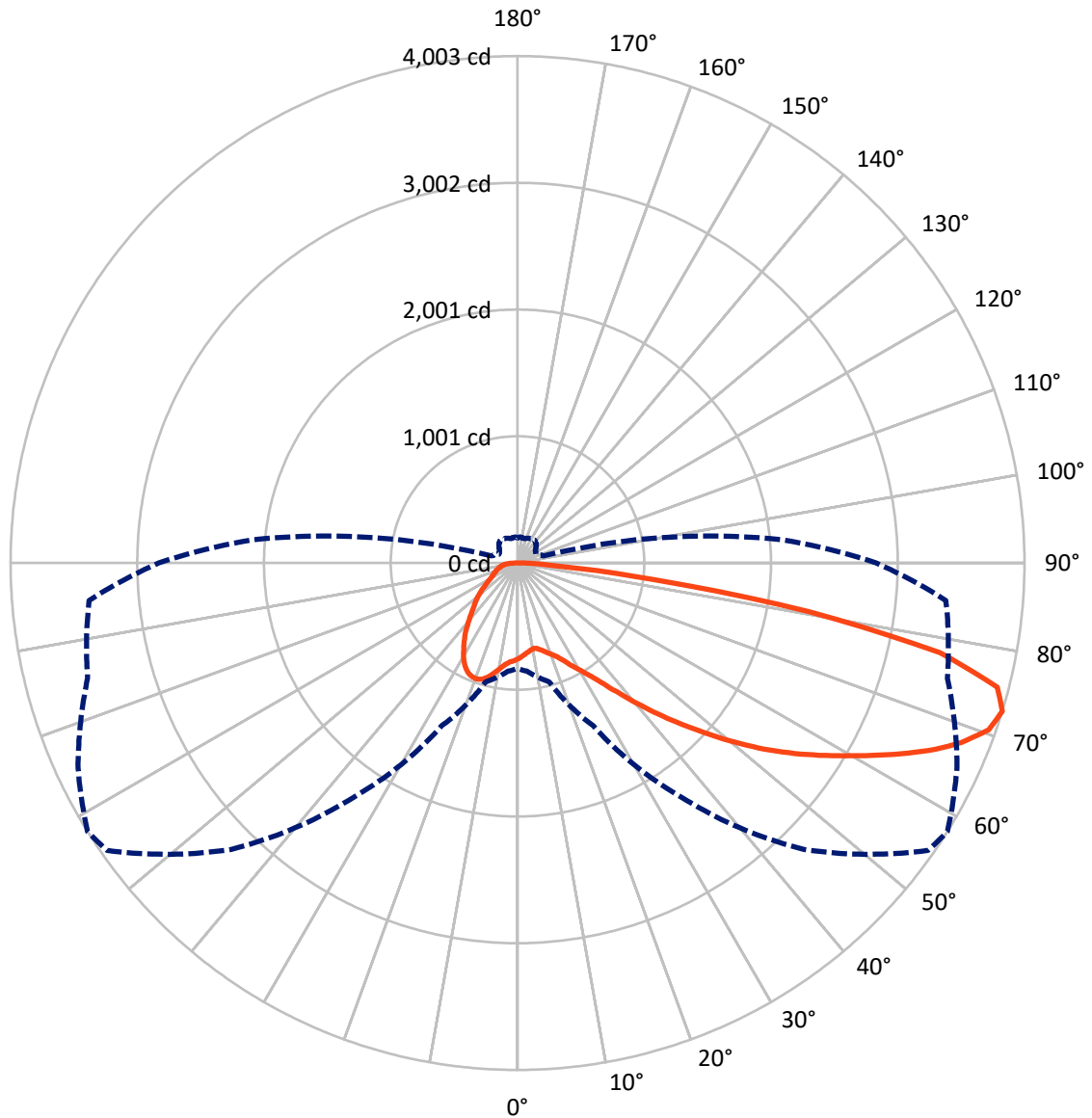


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - Non-Cutoff

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### 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
<b>House Side</b>	Lumens	1627.9	0.0	1627.9
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	5550.1	0.0	5550.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	7178.0	0.0	7178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	1.0
10°-20°	231.6	3.2
20°-30°	414.9	5.8
30°-40°	624.1	8.7
40°-50°	1010.7	14.1
50°-60°	1521.4	21.2
60°-70°	1790.6	24.9
70°-80°	1269.7	17.7
80°-90°	241.9	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°	7178.0	100.0
0°-180°	7178.0	100.0

**Coefficient of Utilization**



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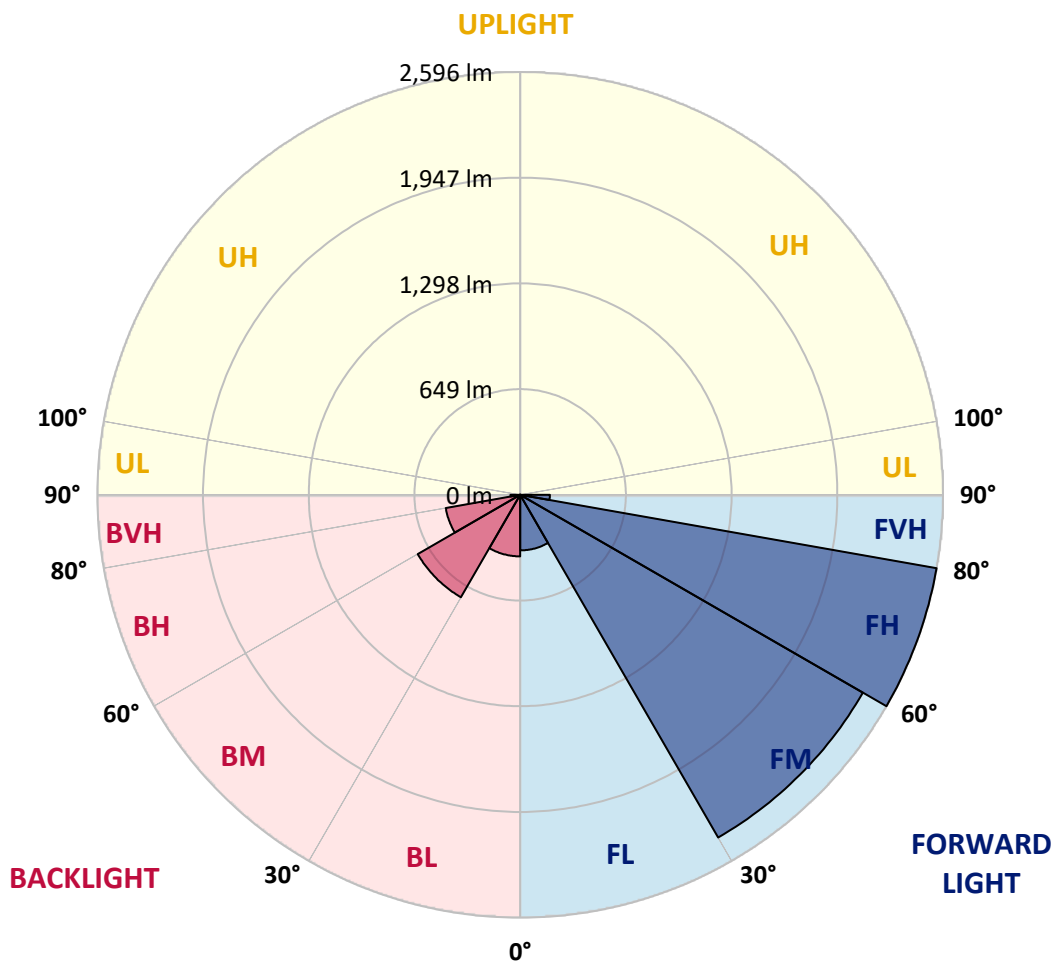
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.3	4.8			
FM (30°-60°)	2430.0	33.9			
FH (60°-80°)	2596.3	36.2			G2/5000
FVH (80°-90°)	182.5	2.5			G2/225
BL (0°-30°)	378.1	5.3	B1/500		
BM (30°-60°)	726.4	10.1	B1/1000		
BH (60°-80°)	464.0	6.5	B1/500		G1/500
BVH (80°-90°)	59.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	728.7	724.9	725.9	725.9	729.6	731.5	732.5	735.3	737.2	742.0	748.6
5°	694.6	691.7	692.7	693.6	700.3	706.9	712.6	716.4	722.1	729.6	739.1
7.5°	669.9	668.1	669.0	670.9	676.6	684.2	693.6	699.3	707.9	722.1	738.2
10°	651.9	651.9	652.9	656.7	662.4	671.8	679.4	686.1	703.1	728.7	753.3
12.5°	637.7	637.7	640.6	648.2	657.6	667.1	685.1	692.7	715.4	750.5	779.9
15°	636.8	637.7	638.7	645.3	655.7	676.6	703.1	714.5	742.0	783.7	817.8
17.5°	651.9	652.9	649.1	651.0	663.3	692.7	727.8	741.0	776.1	821.6	856.6
20°	698.4	698.4	687.0	676.6	685.1	717.3	757.1	770.4	809.2	859.5	894.5
22.5°	793.1	797.9	771.3	748.6	735.3	753.3	789.3	803.6	847.1	901.2	936.2
25°	907.8	912.5	876.5	844.3	819.7	816.8	840.5	855.7	891.7	947.6	977.0
27.5°	1018.7	1010.1	977.0	946.6	915.4	889.8	907.8	921.1	962.8	1005.4	1023.4
30°	1105.8	1099.2	1067.0	1045.2	1015.8	982.7	972.2	986.4	1020.6	1060.4	1069.8
32.5°	1202.5	1197.8	1165.5	1137.1	1112.5	1081.2	1058.5	1065.1	1084.0	1112.5	1118.2
35°	1325.7	1336.1	1302.0	1244.2	1216.7	1186.4	1170.3	1172.2	1186.4	1204.4	1194.9
37.5°	1455.5	1467.8	1469.7	1378.7	1341.8	1314.3	1297.3	1303.9	1320.9	1333.3	1303.9
40°	1696.2	1683.9	1634.6	1567.3	1510.5	1483.9	1460.2	1459.3	1471.6	1493.4	1440.3
42.5°	2015.5	2004.2	1904.7	1817.5	1727.5	1697.1	1650.7	1630.8	1636.5	1664.0	1590.1
45°	2321.6	2316.9	2237.3	2135.9	2027.8	1969.1	1863.0	1814.6	1809.9	1831.7	1743.6
47.5°	2593.6	2572.7	2514.9	2436.3	2424.9	2271.4	2076.2	2010.8	1988.0	2000.4	1901.8
50°	2884.5	2813.4	2733.8	2685.5	2767.9	2624.8	2291.3	2223.1	2167.1	2175.7	2073.3
52.5°	3038.9	2919.5	2867.4	2881.6	2992.5	2937.5	2525.3	2441.9	2351.9	2364.2	2243.9
55°	2906.3	2905.3	2928.1	3016.2	3170.6	3107.2	2748.0	2654.2	2555.7	2558.5	2440.1
57.5°	2724.3	2761.3	2878.8	3073.0	3391.4	3285.3	2966.9	2867.4	2777.4	2763.2	2662.7
60°	2558.5	2599.2	2769.8	3063.6	3468.2	3448.3	3175.4	3088.2	3015.2	2973.5	2896.8
62.5°	2306.4	2336.8	2578.4	3002.9	3403.8	3565.8	3386.7	3327.0	3272.0	3185.8	3148.8
65°	2009.8	2020.3	2275.2	2803.0	3323.2	3611.3	3597.1	3570.5	3517.5	3390.5	3398.1
67.5°	1688.6	1709.5	1933.1	2483.6	3147.0	3590.4	3760.0	3781.8	3719.3	3528.8	3557.3
70°	1346.5	1372.1	1541.7	2042.1	2847.5	3500.4	3910.7	3945.8	3825.4	3574.3	3586.6
72.5°	832.9	857.6	971.3	1418.5	2257.2	3198.1	3957.1	4002.6	3828.3	3513.7	3395.2
75°	288.1	290.9	380.0	680.4	1339.9	2414.5	3805.5	3912.6	3707.9	3292.9	2954.6
77.5°	131.7	136.5	168.7	280.5	594.1	1302.9	3142.2	3410.4	3342.2	2948.0	2274.2
80°	91.0	92.9	116.6	167.7	343.0	458.6	1983.3	2333.0	2452.4	2282.8	1457.4
82.5°	68.2	70.1	90.0	113.7	247.3	222.7	755.2	1084.0	1347.5	1322.8	609.3
85°	65.4	64.4	70.1	75.8	164.9	132.7	244.5	335.4	525.9	450.1	153.5
87.5°	28.4	31.3	72.0	42.6	86.2	61.6	106.1	124.1	160.1	139.3	55.0
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°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	751.4	753.3	759.0	767.5	772.3	781.8	788.4	792.2	795.0	796.0	796.0
5°	744.8	748.6	760.9	775.1	788.4	808.3	826.3	836.7	844.3	847.1	848.1
7.5°	746.7	756.2	774.2	795.0	812.1	837.7	859.5	880.3	897.4	904.0	904.0
10°	764.7	778.0	802.6	830.1	851.9	878.4	901.2	919.2	939.1	950.4	952.3
12.5°	792.2	808.3	840.5	870.8	895.5	916.3	937.2	950.4	959.9	968.4	970.3
15°	831.0	850.9	883.2	914.4	936.2	949.5	955.2	955.2	954.2	955.2	957.1
17.5°	869.9	888.8	921.1	952.3	962.8	955.2	948.5	946.6	945.7	943.8	944.7
20°	907.8	925.8	953.3	977.0	968.4	941.9	933.4	932.4	929.6	927.7	925.8
22.5°	945.7	959.0	981.7	990.2	956.1	918.2	907.8	902.1	898.3	893.6	888.8
25°	989.3	993.1	1010.1	996.9	925.8	874.6	859.5	850.9	847.1	842.4	838.6
27.5°	1030.0	1030.0	1032.9	986.4	881.3	816.8	794.1	778.9	778.0	777.0	776.1
30°	1067.0	1062.3	1052.8	955.2	823.5	745.8	711.6	696.5	702.2	706.9	707.9
32.5°	1110.6	1101.1	1074.6	912.5	754.3	666.2	624.5	617.8	624.5	630.1	626.4
35°	1178.8	1161.7	1097.3	863.3	688.0	593.2	553.4	543.9	542.0	541.1	533.5
37.5°	1276.4	1247.0	1115.3	810.2	622.6	528.8	499.4	479.5	461.5	442.5	439.7
40°	1395.8	1345.6	1127.6	749.5	553.4	474.7	443.5	417.9	387.6	354.4	350.6
42.5°	1526.6	1451.7	1133.3	682.3	492.7	430.2	391.4	359.1	325.0	299.4	294.7
45°	1667.8	1566.4	1128.6	617.8	443.5	392.3	348.7	313.7	286.2	268.2	264.4
47.5°	1805.2	1698.1	1115.3	566.7	405.6	360.1	315.5	283.3	262.5	242.6	237.8
50°	1981.4	1824.1	1099.2	526.9	363.9	327.9	294.7	260.6	236.9	227.4	225.5
52.5°	2176.6	1950.1	1080.3	476.6	323.1	302.3	281.4	251.1	243.5	225.5	222.7
55°	2387.9	2099.9	1076.5	413.2	287.1	284.3	268.2	259.6	261.5	225.5	220.8
57.5°	2610.6	2260.0	1085.0	349.7	257.7	268.2	273.9	267.2	264.4	230.3	220.8
60°	2842.8	2414.5	1059.4	290.9	235.0	254.9	280.5	263.4	242.6	228.4	221.7
62.5°	3068.3	2544.3	948.5	249.2	217.9	251.1	276.7	249.2	225.5	225.5	222.7
65°	3232.2	2602.1	742.0	218.9	206.6	246.4	270.1	239.7	220.8	227.4	223.6
67.5°	3251.2	2542.4	498.4	195.2	197.1	237.8	254.9	231.2	216.1	233.1	227.4
70°	3134.6	2387.0	305.1	177.2	184.8	222.7	241.6	222.7	209.4	228.4	219.8
72.5°	2832.4	2097.0	215.1	162.0	171.5	208.5	229.3	215.1	199.9	206.6	198.0
75°	2323.5	1625.1	170.6	147.8	158.2	195.2	218.9	203.7	188.6	185.7	180.0
77.5°	1646.0	1041.4	137.4	136.5	144.0	179.1	204.7	190.5	175.3	169.6	165.8
80°	946.6	510.8	118.4	123.2	130.8	163.0	187.6	175.3	161.1	152.6	146.9
82.5°	362.0	178.1	104.2	107.1	115.6	145.9	170.6	160.1	145.9	153.5	128.9
85°	117.5	97.6	85.3	88.1	96.7	121.3	150.7	142.1	126.0	111.8	103.3
87.5°	52.1	53.1	45.5	50.2	60.6	80.5	109.9	104.2	91.9	76.8	73.9
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)