

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: P397840

Luminaire Tested: **ARCH-S-PA1-50-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397840
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-PA1-50-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7121 lumens
Efficiency: N/A
Efficacy: 131.9 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

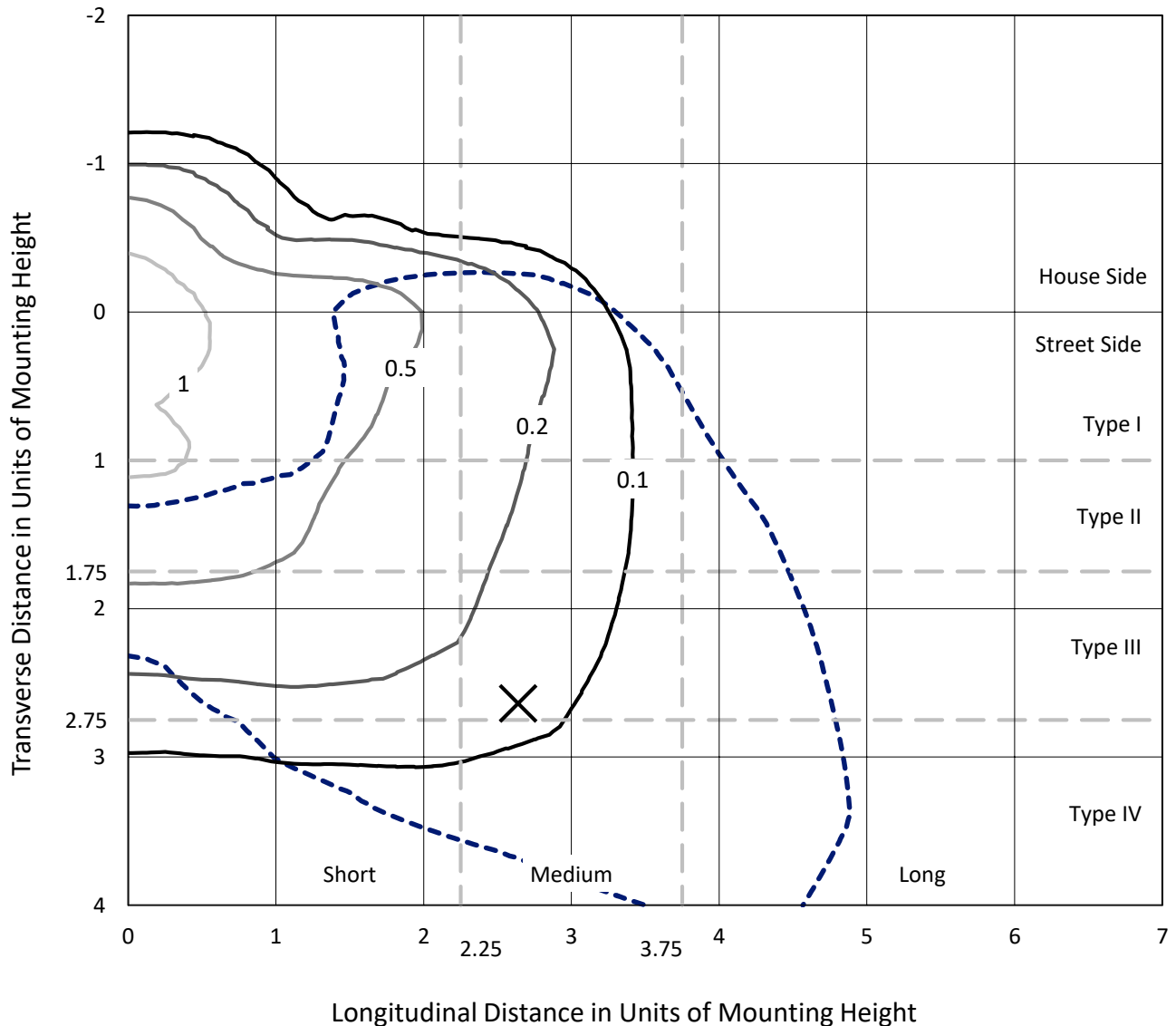
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

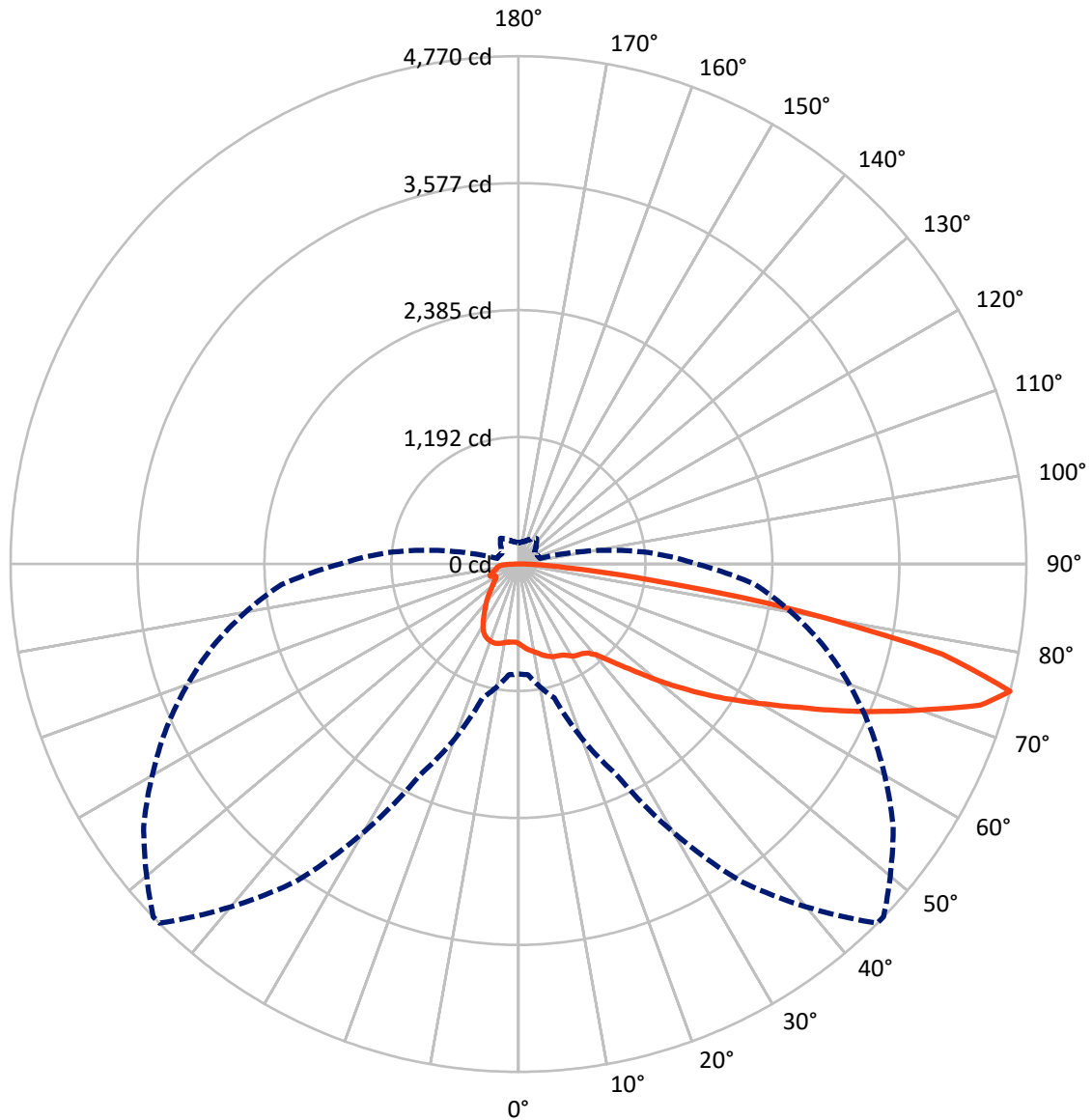


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.7	0.0	1573.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5547.3	0.0	5547.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	7121.0	0.0	7121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.0
10°-20°	235.4	3.3
20°-30°	401.3	5.6
30°-40°	562.2	7.9
40°-50°	826.0	11.6
50°-60°	1314.6	18.5
60°-70°	1870.0	26.3
70°-80°	1565.8	22.0
80°-90°	271.7	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°	7121.0	100.0
0°-180°	7121.0	100.0



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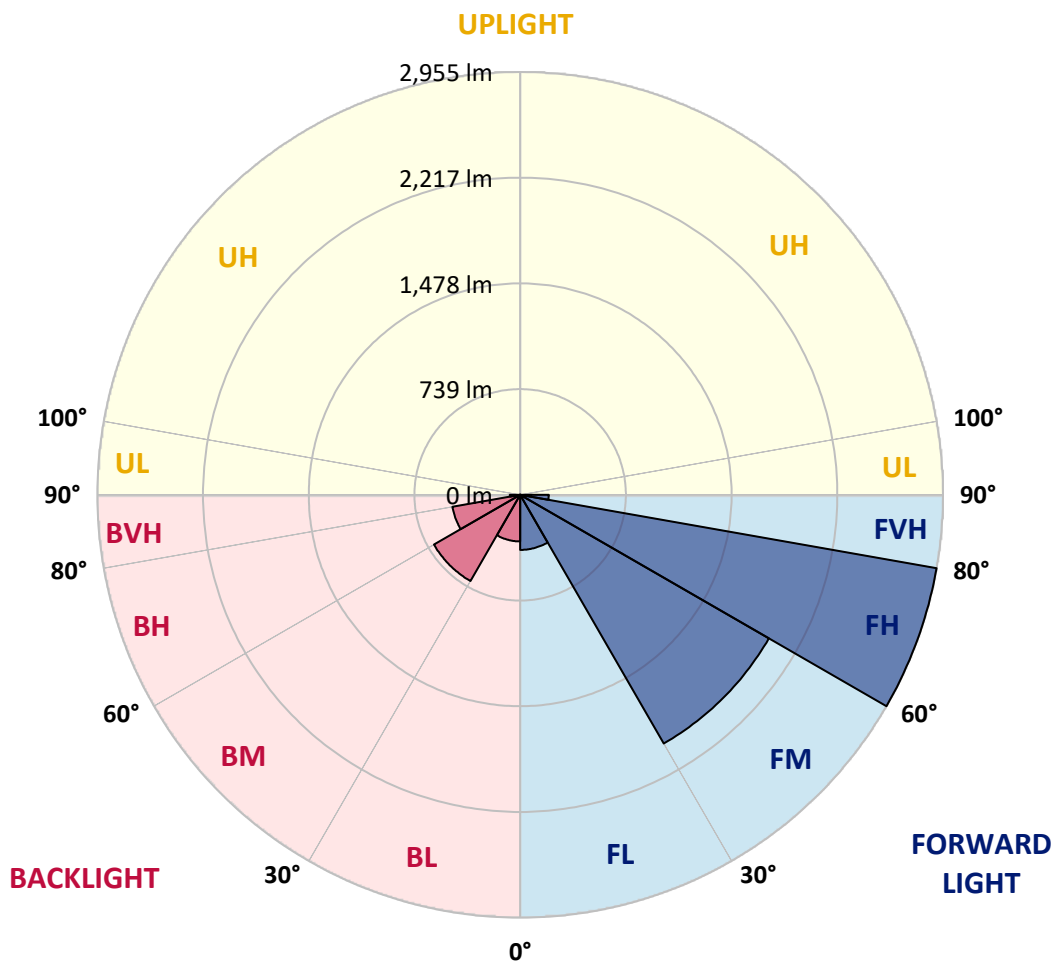
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.9	5.4			
FM	(30°-60°)	2007.2	28.2			
FH	(60°-80°)	2955.4	41.5			G2/5000
FVH	(80°-90°)	199.8	2.8			G2/225
BL	(0°-30°)	325.7	4.6	B1/500		
BM	(30°-60°)	695.6	9.8	B1/1000		
BH	(60°-80°)	480.4	6.7	B1/500		G1/500
BVH	(80°-90°)	72.0	1.0			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°	46°	55°	65°	75°	85°
0°	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9
2.5°	790.7	786.9	785.0	785.0	777.4	772.6	771.6	765.0	759.3	753.6	748.8
5°	836.3	833.5	827.8	823.0	812.6	799.2	797.3	783.1	768.8	755.5	744.1
7.5°	878.2	872.5	865.8	856.3	839.2	821.1	818.3	798.3	778.3	758.3	743.1
10°	913.4	907.7	898.2	884.9	863.0	841.1	838.3	817.3	796.4	772.6	750.7
12.5°	946.7	942.0	927.7	909.6	883.9	863.9	861.1	843.0	821.1	794.5	765.9
15°	975.3	970.5	955.3	934.4	904.9	889.6	885.8	868.7	846.8	818.3	788.8
17.5°	989.5	989.5	973.4	950.5	922.9	911.5	908.7	887.7	867.7	840.2	810.7
20°	994.3	996.2	984.8	957.2	933.4	928.6	925.8	908.7	885.8	859.2	831.6
22.5°	997.1	1001.0	991.4	960.0	940.1	937.2	935.3	923.9	905.8	880.1	852.5
25°	1006.7	1006.7	1000.0	964.8	948.6	947.7	947.7	941.0	928.6	906.8	879.2
27.5°	1020.9	1020.0	1011.4	975.3	967.7	970.5	969.6	968.6	960.0	938.2	908.7
30°	1044.7	1044.7	1035.2	996.2	991.4	1003.8	1004.8	1006.7	993.3	959.1	935.3
32.5°	1080.9	1077.1	1067.6	1017.1	1009.5	1020.9	1022.8	1021.9	1010.5	978.1	966.7
35°	1192.2	1183.6	1149.4	1063.8	1025.7	1032.4	1033.3	1038.1	1040.0	1014.3	1008.6
37.5°	1387.3	1375.8	1323.5	1174.1	1077.1	1060.9	1059.9	1072.3	1082.8	1059.9	1059.9
40°	1599.4	1589.9	1559.5	1364.4	1172.2	1118.9	1115.1	1126.5	1139.9	1123.7	1128.5
42.5°	1782.1	1789.7	1792.6	1566.1	1314.9	1227.4	1216.9	1200.8	1221.7	1207.4	1226.5
45°	1919.1	1915.3	1967.7	1772.6	1499.5	1363.5	1349.2	1305.4	1332.1	1331.1	1373.0
47.5°	2064.7	2058.0	2079.9	1966.7	1709.8	1530.0	1508.1	1443.4	1483.4	1510.9	1580.4
50°	2202.7	2204.6	2212.2	2119.9	1938.2	1732.6	1705.0	1618.5	1675.6	1733.6	1831.6
52.5°	2382.5	2369.2	2359.7	2298.8	2194.1	1943.9	1925.8	1826.8	1906.8	1975.3	2105.6
55°	2539.5	2530.9	2525.2	2522.4	2408.2	2177.0	2157.9	2055.2	2170.3	2218.8	2411.0
57.5°	2707.0	2702.2	2732.6	2781.2	2735.5	2413.9	2393.9	2295.0	2423.4	2457.7	2742.2
60°	2829.7	2832.5	2916.3	3040.0	3008.6	2670.8	2647.0	2559.5	2669.8	2700.3	3073.3
62.5°	2830.6	2859.2	3053.3	3275.0	3311.1	2966.7	2939.1	2844.0	2922.9	2922.9	3370.1
65°	2560.4	2592.8	3028.6	3333.0	3617.5	3318.8	3292.1	3142.7	3172.2	3132.3	3648.9
67.5°	2291.2	2329.2	2739.3	3337.8	3832.5	3695.5	3664.1	3441.5	3391.1	3290.2	3844.0
70°	2112.3	2138.9	2481.5	3275.9	3961.9	4089.4	4065.7	3725.0	3563.3	3422.5	3803.1
72.5°	1778.3	1768.8	2096.1	2981.9	4034.3	4536.6	4516.7	4033.3	3712.7	3359.7	3243.6
75°	1032.4	1043.8	1300.7	2184.6	3636.5	4769.8	4767.9	4296.9	3647.0	2967.7	2235.0
77.5°	297.8	306.4	427.2	960.0	2299.7	4068.5	4198.9	3929.6	3082.8	2115.1	1158.9
80°	130.4	137.0	185.5	319.7	990.5	2657.5	2771.7	2657.5	1859.2	970.5	454.8
82.5°	77.1	81.8	120.8	197.9	474.8	1264.5	1418.7	1238.8	802.1	412.0	188.4
85°	43.8	45.7	69.5	125.6	298.8	442.4	496.7	465.3	391.1	234.1	99.0
87.5°	20.0	20.9	34.3	59.0	167.5	149.4	155.1	205.5	226.5	142.7	49.5
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°	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9	747.9
2.5°	746.9	744.1	738.3	736.4	733.6	734.5	735.5	735.5	736.4	733.6	733.6
5°	739.3	734.5	728.8	728.8	728.8	736.4	743.1	746.9	748.8	748.8	746.9
7.5°	736.4	730.7	724.1	726.0	727.9	737.4	749.8	762.1	765.9	765.9	764.0
10°	742.2	736.4	731.7	734.5	739.3	746.9	756.4	767.8	777.4	778.3	777.4
12.5°	755.5	748.8	744.1	749.8	755.5	760.2	765.0	769.7	782.1	784.0	784.0
15°	777.4	770.7	765.0	769.7	771.6	771.6	771.6	771.6	784.0	785.9	785.9
17.5°	799.2	793.5	787.8	788.8	783.1	775.5	772.6	771.6	778.3	784.0	785.0
20°	820.2	815.4	809.7	800.2	785.9	771.6	766.9	766.9	770.7	779.3	779.3
22.5°	843.0	837.3	827.8	805.9	782.1	762.1	757.4	760.2	765.0	776.4	775.5
25°	868.7	861.1	844.9	804.0	769.7	746.0	746.9	755.5	764.0	776.4	776.4
27.5°	897.2	886.8	854.4	788.8	742.2	719.3	727.9	747.9	760.2	773.6	775.5
30°	928.6	919.1	862.0	762.1	697.4	676.5	697.4	729.8	748.8	761.2	764.0
32.5°	966.7	959.1	868.7	727.9	639.4	621.3	651.8	691.7	722.2	736.4	739.3
35°	1014.3	1006.7	877.3	688.9	585.2	566.1	593.7	634.6	674.6	692.7	698.4
37.5°	1076.1	1064.7	884.9	647.0	539.5	517.6	530.9	568.0	604.2	628.9	635.6
40°	1155.1	1137.0	891.5	599.4	499.5	474.8	479.5	497.6	518.6	540.4	549.0
42.5°	1266.4	1230.3	892.5	549.0	458.6	435.8	433.9	439.6	439.6	439.6	442.4
45°	1421.5	1353.0	894.4	501.4	416.7	393.0	387.3	385.3	371.1	343.5	341.6
47.5°	1617.5	1513.8	903.0	461.5	373.0	352.0	344.4	336.8	310.2	281.6	275.9
50°	1868.7	1700.3	920.1	423.4	335.9	321.6	312.1	294.0	264.5	242.6	236.9
52.5°	2157.9	1922.0	936.3	383.4	308.3	298.8	287.3	265.5	234.1	220.7	218.8
55°	2490.0	2169.4	968.6	348.2	284.5	277.8	267.4	246.4	222.6	213.1	212.2
57.5°	2829.7	2446.2	1014.3	316.8	261.7	257.9	257.9	239.8	224.5	220.7	220.7
60°	3157.0	2684.1	979.1	287.3	240.7	242.6	260.7	255.9	244.5	249.3	252.1
62.5°	3411.0	2824.0	794.5	263.6	225.5	242.6	289.2	289.2	275.9	274.0	274.0
65°	3519.5	2822.1	558.5	245.5	219.8	266.4	322.6	307.3	272.1	258.8	255.9
67.5°	3491.9	2698.4	385.3	233.1	217.9	291.2	337.8	295.0	255.0	243.6	235.0
70°	3249.3	2436.7	296.9	221.7	215.0	280.7	333.0	280.7	241.7	231.2	223.6
72.5°	2621.3	1954.3	246.4	210.3	203.6	259.8	316.8	267.4	231.2	219.8	212.2
75°	1671.7	1229.3	208.4	195.1	181.7	233.1	295.0	254.0	219.8	204.6	198.9
77.5°	804.0	530.0	181.7	177.0	163.7	216.0	273.1	236.9	204.6	192.2	188.4
80°	325.4	242.6	157.9	158.9	150.3	205.5	257.9	220.7	189.3	176.0	169.4
82.5°	169.4	140.8	133.2	137.0	137.0	196.0	246.4	207.4	176.0	170.3	148.4
85°	91.3	87.5	102.8	110.4	118.9	177.0	229.3	193.1	160.8	138.0	133.2
87.5°	44.7	57.1	58.0	66.6	82.8	141.8	193.1	161.8	134.2	111.3	109.4
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)