

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: P398041

Luminaire Tested: **ARCH-S-PA1-80-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-80-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9151 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

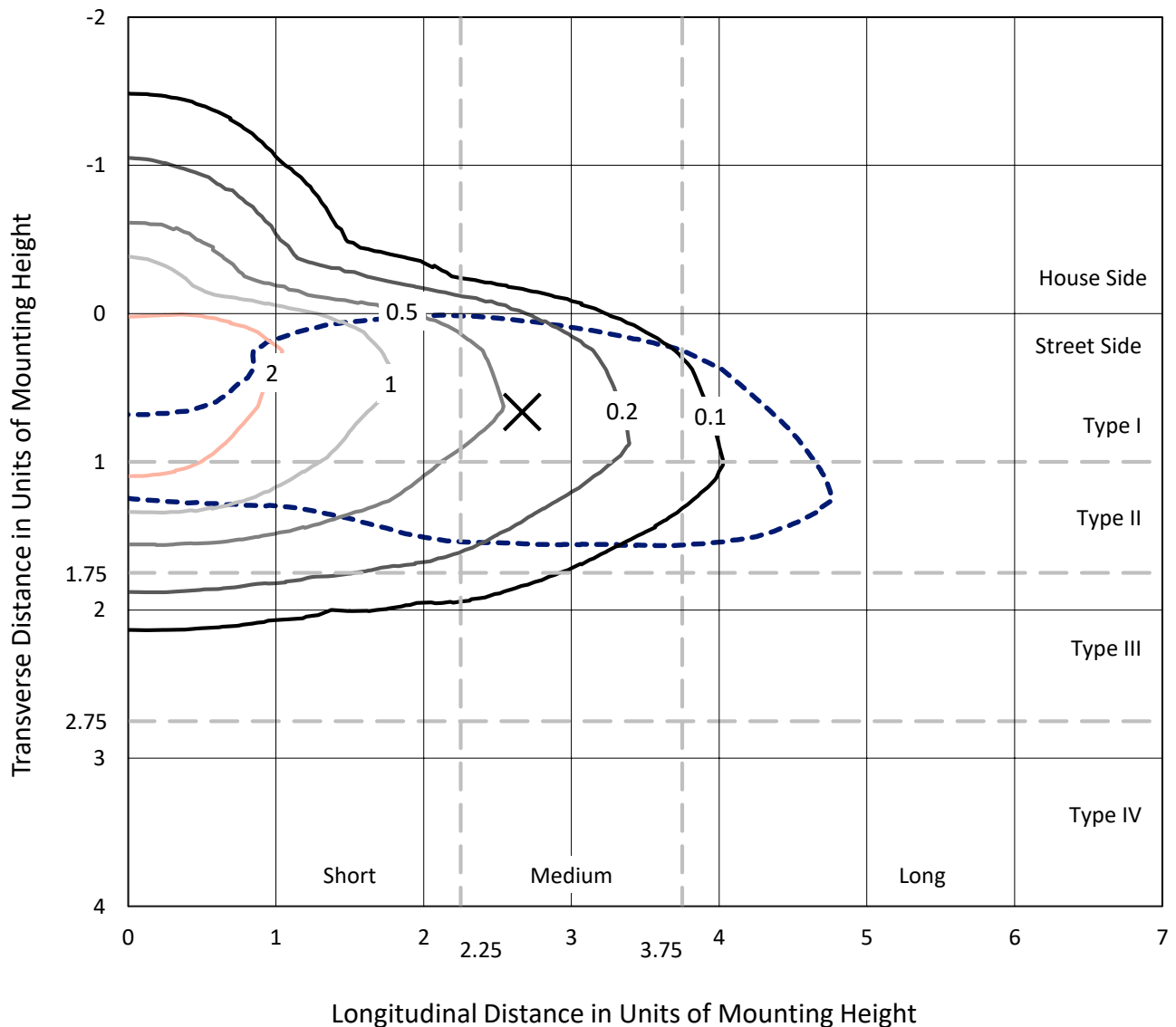
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

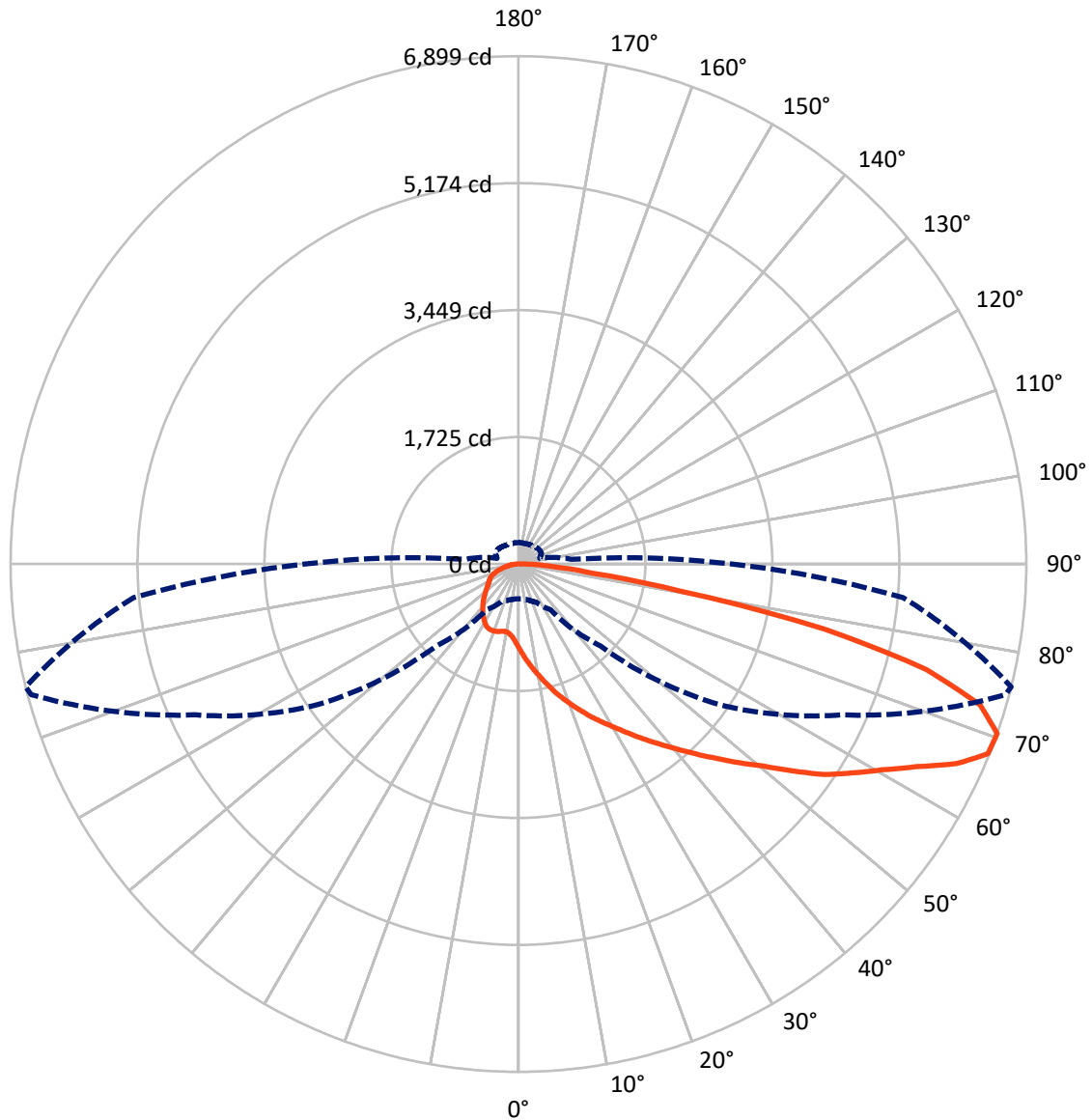


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.0	0.0	1494.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7657.0	0.0	7657.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	9151.0	0.0	9151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	1.3
10°-20°	404.1	4.4
20°-30°	723.0	7.9
30°-40°	1169.6	12.8
40°-50°	1692.0	18.5
50°-60°	1936.6	21.2
60°-70°	1781.4	19.5
70°-80°	1101.6	12.0
80°-90°	223.7	2.4
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°	9151.0	100.0
0°-180°	9151.0	100.0

Coefficient of Utilization



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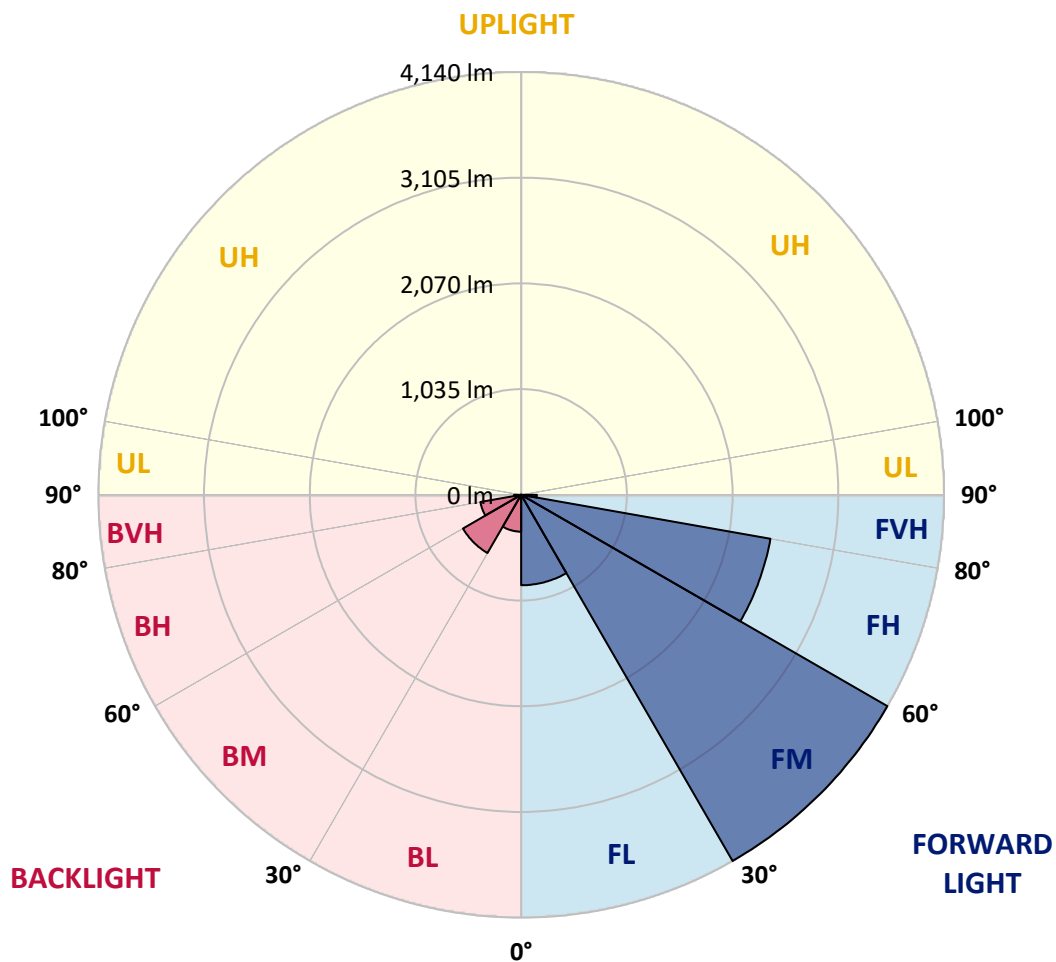
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.2	9.7			
FM (30°-60°)	4140.4	45.2			
FH (60°-80°)	2477.8	27.1			G2/5000
FVH (80°-90°)	153.6	1.7			G2/225
BL (0°-30°)	360.8	3.9	B1/500		
BM (30°-60°)	657.8	7.2	B1/1000		
BH (60°-80°)	405.2	4.4	B1/500		G1/500
BVH (80°-90°)	70.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1458.4	1447.6	1446.4	1429.6	1413.9	1371.8	1341.7	1288.8	1235.8	1234.6	1181.7
5°	1685.9	1675.0	1669.0	1648.6	1622.1	1566.7	1512.6	1430.8	1340.5	1334.5	1234.6
7.5°	1839.9	1830.3	1818.2	1809.8	1784.5	1735.2	1669.0	1571.6	1447.6	1435.6	1296.0
10°	1943.4	1937.4	1935.0	1928.9	1913.3	1873.6	1809.8	1706.3	1554.7	1541.5	1361.0
12.5°	1987.9	1985.5	1996.3	2013.2	2019.2	2003.6	1942.2	1844.7	1672.6	1658.2	1439.2
15°	1936.2	1938.6	1966.2	2024.0	2085.4	2119.1	2083.0	1987.9	1806.2	1785.7	1530.6
17.5°	1912.1	1915.7	1935.0	1990.3	2077.0	2181.6	2198.5	2123.9	1935.0	1906.1	1626.9
20°	1954.2	1959.0	1973.5	2016.8	2077.0	2188.9	2276.7	2253.8	2061.3	2031.2	1719.6
22.5°	2061.3	2067.3	2066.1	2093.8	2134.7	2211.7	2320.0	2376.6	2193.7	2160.0	1815.8
25°	2289.9	2285.1	2244.2	2231.0	2241.8	2291.2	2377.8	2494.5	2332.1	2298.4	1916.9
27.5°	2600.4	2594.4	2519.8	2452.4	2392.2	2413.9	2459.6	2589.6	2472.9	2434.3	2013.2
30°	2932.5	2925.3	2838.7	2729.2	2595.6	2564.3	2558.3	2672.6	2614.8	2573.9	2115.5
32.5°	3256.2	3250.2	3157.6	3030.0	2845.9	2752.0	2694.3	2765.3	2776.1	2736.4	2227.4
35°	3551.0	3551.0	3471.6	3320.0	3111.8	2969.8	2874.8	2879.6	2961.4	2915.7	2354.9
37.5°	3813.4	3812.2	3725.5	3576.3	3376.6	3214.1	3096.2	3018.0	3138.3	3098.6	2488.5
40°	4021.5	4013.1	3949.3	3819.4	3618.4	3457.2	3338.1	3180.4	3335.6	3299.5	2630.5
42.5°	4173.2	4168.4	4125.0	4011.9	3820.6	3669.0	3587.1	3385.0	3559.5	3523.4	2796.6
45°	4232.1	4241.8	4241.8	4134.7	3983.0	3844.7	3808.6	3610.0	3801.3	3765.2	2974.6
47.5°	4137.1	4162.3	4214.1	4221.3	4087.7	3993.9	4005.9	3836.2	4050.4	4031.2	3169.6
50°	3839.8	3886.8	3999.9	4204.5	4129.8	4108.2	4174.4	4067.3	4317.6	4311.5	3406.6
52.5°	3073.3	3187.6	3540.2	3907.2	4101.0	4161.1	4341.6	4327.2	4661.7	4671.3	3715.9
55°	2357.3	2400.7	2808.6	3433.1	3924.1	4144.3	4453.5	4581.1	5034.8	5046.8	3999.9
57.5°	1906.1	1935.0	2157.6	2808.6	3521.0	4052.8	4541.4	4729.1	5321.1	5352.4	4252.6
60°	1510.2	1552.3	1701.5	2149.2	2956.6	3832.6	4602.8	4894.0	5629.2	5676.1	4554.6
62.5°	1122.7	1143.2	1284.0	1592.0	2340.5	3436.7	4570.3	5073.3	6007.0	6063.6	4918.0
65°	799.0	817.1	916.9	1132.3	1730.4	2901.2	4381.3	5206.8	6481.2	6538.9	5283.8
67.5°	598.1	605.3	661.8	791.8	1166.0	2253.8	3998.7	5184.0	6827.7	6879.5	5430.7
70°	472.9	475.3	503.0	572.8	758.1	1569.1	3328.4	4848.2	6853.0	6898.7	5245.3
72.5°	392.3	391.1	406.7	440.4	528.3	992.8	2465.6	4224.9	6528.1	6559.4	4727.9
75°	323.7	326.1	336.9	356.2	403.1	654.6	1598.0	3370.5	5759.2	5725.5	3967.4
77.5°	272.0	270.8	275.6	292.4	326.1	470.5	936.2	2435.6	4268.2	4251.4	2604.0
80°	219.0	221.4	228.6	243.1	274.4	358.6	553.5	1519.8	2289.9	2228.6	1244.2
82.5°	146.8	169.7	184.1	201.0	237.1	264.7	351.4	772.5	1024.0	1008.4	564.4
85°	69.8	92.7	137.2	156.4	192.5	166.1	238.3	368.2	512.6	506.6	203.4
87.5°	14.4	14.4	73.4	87.8	119.1	71.0	132.4	160.0	247.9	232.2	83.0
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°	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1150.4	1117.9	1052.9	1001.2	948.2	918.1	880.8	862.8	859.2	849.6	856.8
5°	1170.8	1107.1	984.3	903.7	849.6	823.1	809.8	805.0	803.8	801.4	801.4
7.5°	1198.5	1101.1	941.0	859.2	824.3	815.9	819.5	826.7	827.9	830.3	829.1
10°	1232.2	1102.3	916.9	848.4	831.5	832.7	844.7	854.4	859.2	862.8	861.6
12.5°	1279.1	1116.7	913.3	855.6	848.4	853.2	865.2	874.8	879.6	880.8	880.8
15°	1340.5	1146.8	921.8	871.2	865.2	868.8	876.0	879.6	880.8	879.6	879.6
17.5°	1407.9	1182.9	933.8	880.8	871.2	867.6	865.2	861.6	854.4	849.6	849.6
20°	1472.9	1215.4	939.8	879.6	862.8	848.4	833.9	815.9	803.8	794.2	794.2
22.5°	1537.9	1245.5	939.8	866.4	839.9	812.3	782.2	753.3	735.2	723.2	723.2
25°	1606.5	1274.3	932.6	843.5	803.8	764.1	723.2	687.1	669.1	657.0	654.6
27.5°	1664.2	1291.2	913.3	811.0	759.3	708.8	661.8	624.5	611.3	600.5	600.5
30°	1725.6	1302.0	877.2	768.9	708.8	651.0	602.9	572.8	558.3	542.7	541.5
32.5°	1794.2	1309.2	836.3	724.4	657.0	595.7	554.7	530.7	499.4	482.5	480.1
35°	1873.6	1318.9	793.0	673.9	605.3	549.9	525.9	486.1	456.1	441.6	440.4
37.5°	1957.8	1326.1	746.1	629.3	558.3	519.8	495.8	448.8	422.4	400.7	398.3
40°	2046.9	1326.1	697.9	586.0	521.0	506.6	460.9	418.8	374.2	363.4	361.0
42.5°	2145.5	1323.7	649.8	543.9	486.1	476.5	440.4	395.9	373.0	363.4	361.0
45°	2250.2	1315.2	604.1	495.8	450.0	430.8	403.1	391.1	381.5	381.5	381.5
47.5°	2369.4	1308.0	552.3	452.5	423.6	401.9	381.5	374.2	373.0	376.6	380.3
50°	2522.2	1305.6	509.0	421.2	403.1	377.8	375.4	369.4	370.6	370.6	370.6
52.5°	2707.5	1284.0	468.1	398.3	382.7	352.6	359.8	365.8	368.2	367.0	365.8
55°	2843.5	1245.5	433.2	382.7	368.2	343.0	352.6	362.2	364.6	361.0	361.0
57.5°	2966.2	1191.3	405.5	370.6	358.6	336.9	347.8	357.4	355.0	353.8	352.6
60°	3107.0	1139.6	383.9	364.6	349.0	334.5	344.2	350.2	346.6	344.2	343.0
62.5°	3259.8	1089.0	368.2	364.6	341.7	333.3	340.5	343.0	335.7	333.3	333.3
65°	3330.8	1009.6	351.4	364.6	338.1	330.9	333.3	330.9	323.7	323.7	322.5
67.5°	3214.1	878.4	329.7	359.8	343.0	327.3	322.5	318.9	310.5	310.5	308.1
70°	2891.6	722.0	298.4	344.2	344.2	326.1	308.1	299.6	290.0	293.6	288.8
72.5°	2470.4	572.8	259.9	317.7	336.9	324.9	292.4	279.2	270.8	274.4	267.1
75°	2001.1	444.0	214.2	275.6	318.9	318.9	276.8	258.7	249.1	249.1	240.7
77.5°	1275.5	328.5	174.5	228.6	286.4	310.5	263.5	235.9	221.4	217.8	211.8
80°	631.8	231.0	143.2	181.7	244.3	291.2	253.9	209.4	188.9	181.7	170.9
82.5°	335.7	160.0	114.3	142.0	194.9	262.3	241.9	180.5	155.2	144.4	132.4
85°	150.4	98.7	91.5	108.3	148.0	215.4	217.8	148.0	119.1	142.0	104.7
87.5°	55.4	44.5	44.5	55.4	85.4	90.3	154.0	95.1	75.8	51.7	40.9
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)