

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: P397591

Luminaire Tested: **ARCH-S-PA1-100-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397591
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-PA1-100-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9417 lumens
Efficiency: N/A
Efficacy: 98.1 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

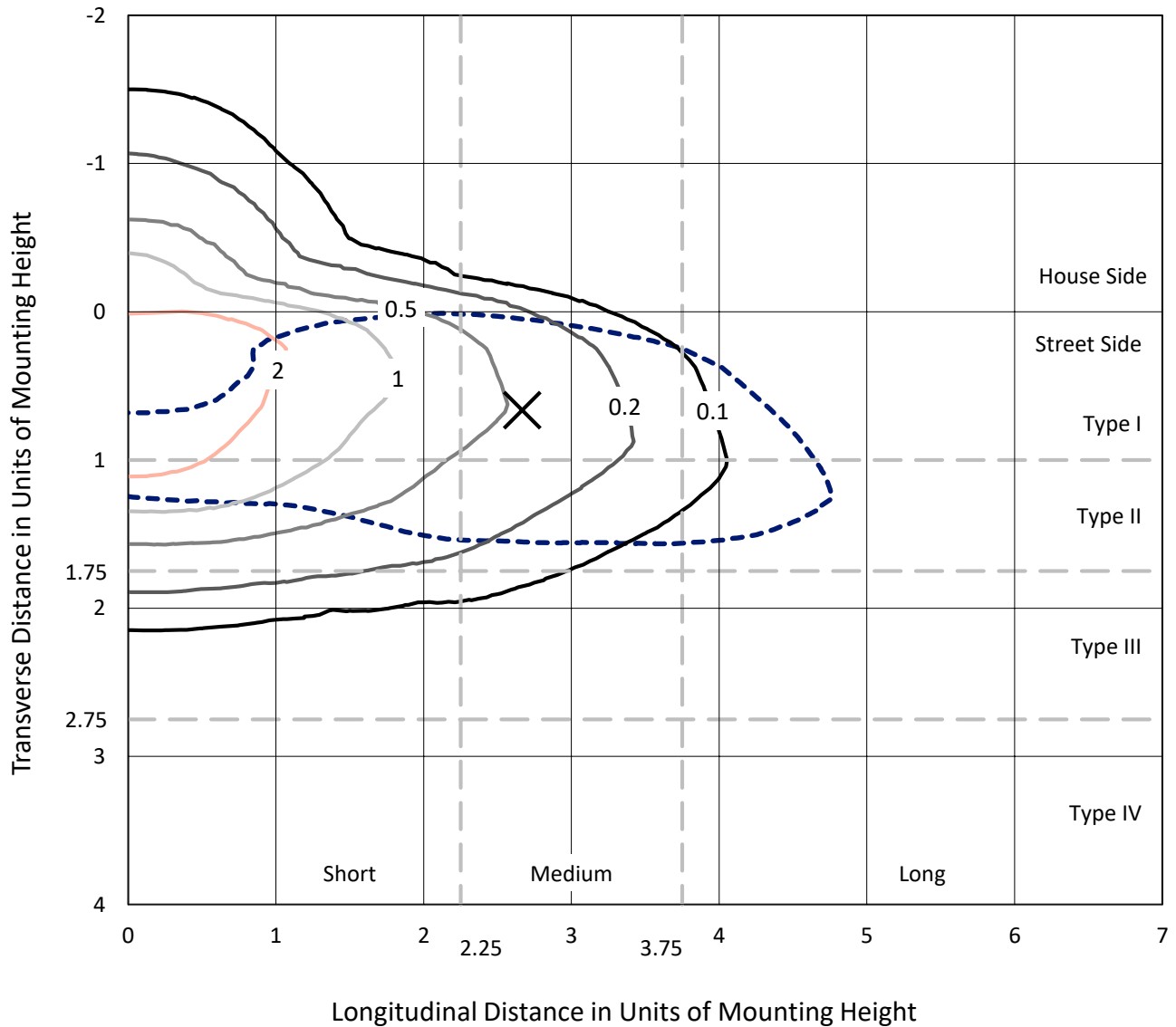
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

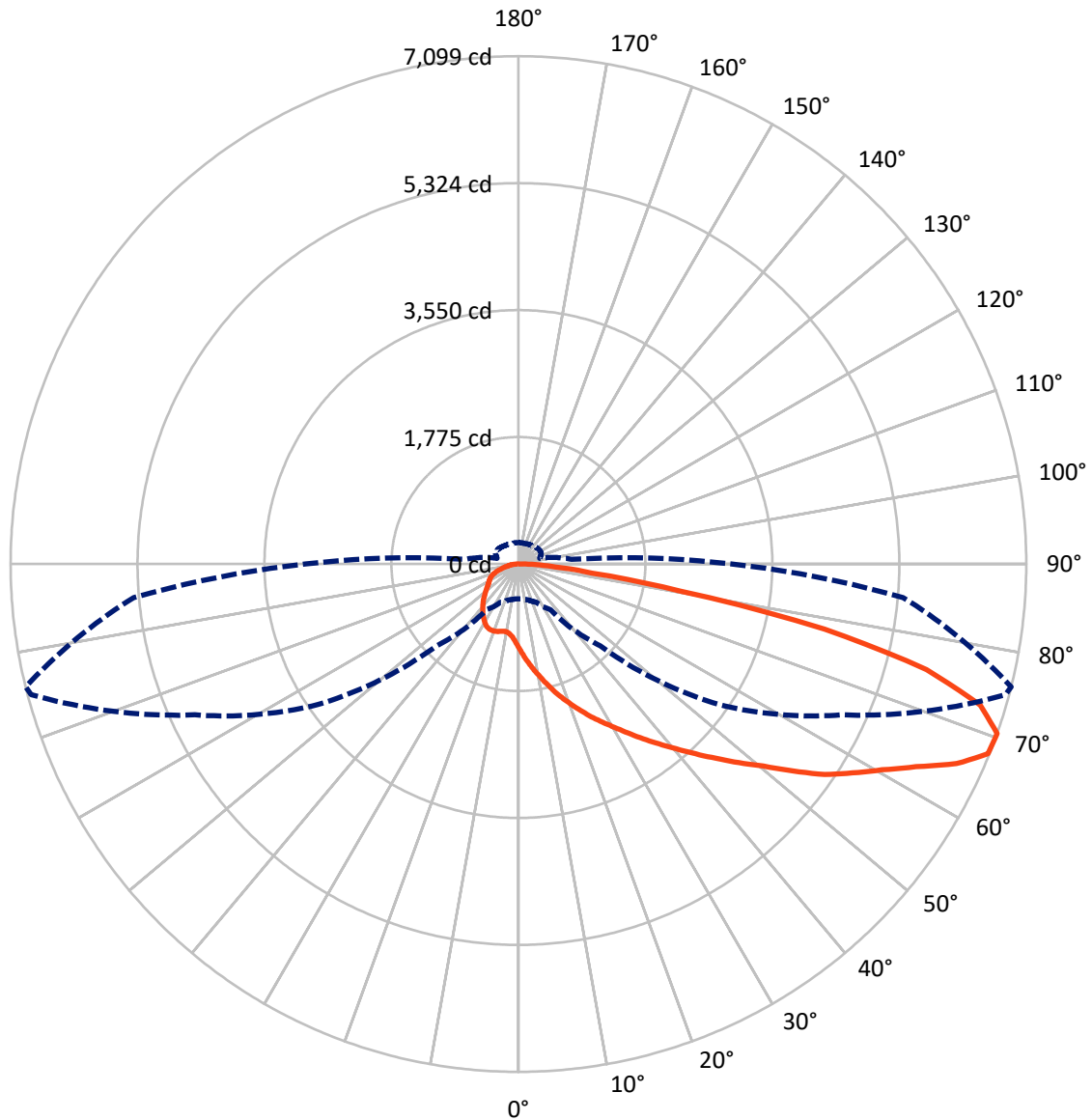


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - Non-Cutoff

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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	1537.4	0.0	1537.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	7879.6	0.0	7879.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	9417.0	0.0	9417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.3
10°-20°	415.9	4.4
20°-30°	744.0	7.9
30°-40°	1203.6	12.8
40°-50°	1741.2	18.5
50°-60°	1992.9	21.2
60°-70°	1833.2	19.5
70°-80°	1133.6	12.0
80°-90°	230.2	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°	9417.0	100.0
0°-180°	9417.0	100.0

Coefficient of Utilization



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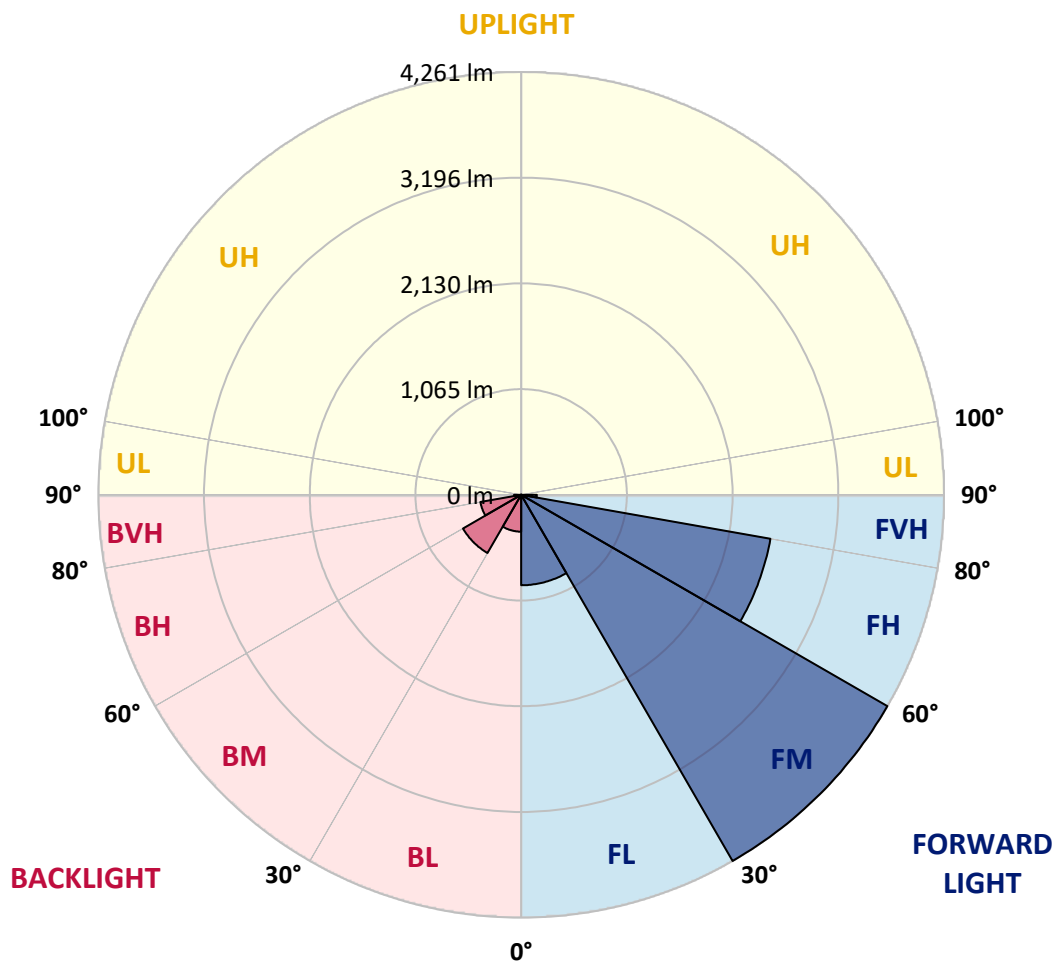
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.9	9.7			
FM (30°-60°)	4260.7	45.2			
FH (60°-80°)	2549.9	27.1			G2/5000
FVH (80°-90°)	158.0	1.7			G2/225
BL (0°-30°)	371.3	3.9	B1/500		
BM (30°-60°)	676.9	7.2	B1/1000		
BH (60°-80°)	417.0	4.4	B1/500		G1/500
BVH (80°-90°)	72.2	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°	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6
2.5°	1500.8	1489.7	1488.5	1471.1	1455.0	1411.7	1380.7	1326.2	1271.7	1270.5	1216.0
5°	1734.9	1723.7	1717.5	1696.5	1669.2	1612.3	1556.6	1472.4	1379.5	1373.3	1270.5
7.5°	1893.4	1883.5	1871.1	1862.4	1836.4	1785.6	1717.5	1617.2	1489.7	1477.3	1333.7
10°	1999.9	1993.7	1991.2	1985.0	1968.9	1928.1	1862.4	1755.9	1599.9	1586.3	1400.5
12.5°	2045.7	2043.2	2054.4	2071.7	2077.9	2061.8	1998.6	1898.3	1721.3	1706.4	1481.0
15°	1992.4	1994.9	2023.4	2082.8	2146.0	2180.7	2143.5	2045.7	1858.7	1837.7	1575.1
17.5°	1967.7	1971.4	1991.2	2048.2	2137.3	2245.1	2262.4	2185.6	1991.2	1961.5	1674.2
20°	2011.0	2016.0	2030.8	2075.4	2137.3	2252.5	2342.9	2319.4	2121.2	2090.3	1769.5
22.5°	2121.2	2127.4	2126.2	2154.7	2196.8	2276.0	2387.5	2445.7	2257.4	2222.8	1868.6
25°	2356.5	2351.6	2309.5	2295.8	2307.0	2357.7	2446.9	2567.0	2399.9	2365.2	1972.6
27.5°	2676.0	2669.8	2593.0	2523.7	2461.8	2484.1	2531.1	2664.9	2544.7	2505.1	2071.7
30°	3017.8	3010.3	2921.2	2808.5	2671.0	2638.8	2632.7	2750.3	2690.9	2648.8	2177.0
32.5°	3350.9	3344.7	3249.3	3118.1	2928.6	2832.0	2772.6	2845.6	2856.8	2815.9	2292.1
35°	3654.3	3654.3	3572.5	3416.5	3202.3	3056.2	2958.3	2963.3	3047.5	3000.4	2423.4
37.5°	3924.2	3923.0	3833.8	3680.3	3474.7	3307.5	3186.2	3105.7	3229.5	3188.7	2560.8
40°	4138.4	4129.8	4064.1	3930.4	3723.6	3557.7	3435.1	3272.9	3432.6	3395.5	2707.0
42.5°	4294.5	4289.5	4244.9	4128.5	3931.6	3775.6	3691.4	3483.4	3662.9	3625.8	2877.8
45°	4355.1	4365.1	4365.1	4254.8	4098.8	3956.4	3919.3	3714.9	3911.8	3874.7	3061.1
47.5°	4257.3	4283.3	4336.6	4344.0	4206.6	4110.0	4122.3	3947.7	4168.2	4148.4	3261.7
50°	3951.5	3999.8	4116.2	4326.7	4249.9	4227.6	4295.7	4185.5	4443.1	4436.9	3505.7
52.5°	3162.7	3280.3	3643.1	4020.8	4220.2	4282.1	4467.8	4453.0	4797.2	4807.1	3823.9
55°	2425.9	2470.4	2890.2	3532.9	4038.1	4264.8	4583.0	4714.3	5181.1	5193.5	4116.2
57.5°	1961.5	1991.2	2220.3	2890.2	3623.3	4170.6	4673.4	4866.6	5475.8	5508.0	4376.2
60°	1554.1	1597.4	1751.0	2211.6	3042.5	3944.0	4736.5	5036.2	5792.8	5841.1	4687.0
62.5°	1155.3	1176.4	1321.3	1638.3	2408.5	3536.6	4703.1	5220.7	6181.7	6239.9	5061.0
65°	822.2	840.8	943.6	1165.3	1780.7	2985.6	4508.7	5358.2	6669.6	6729.0	5437.4
67.5°	615.4	622.9	681.1	814.8	1199.9	2319.4	4114.9	5334.7	7026.2	7079.4	5588.5
70°	486.7	489.1	517.6	589.4	780.1	1614.8	3425.2	4989.2	7052.2	7099.3	5397.8
72.5°	403.7	402.5	418.5	453.2	543.6	1021.6	2537.3	4347.7	6717.9	6750.0	4865.3
75°	333.1	335.6	346.7	366.5	414.8	673.6	1644.5	3468.5	5926.6	5891.9	4082.7
77.5°	279.9	278.6	283.6	300.9	335.6	484.2	963.4	2506.3	4392.3	4375.0	2679.7
80°	225.4	227.8	235.3	250.1	282.3	369.0	569.6	1564.0	2356.5	2293.4	1280.4
82.5°	151.1	174.6	189.5	206.8	243.9	272.4	361.6	795.0	1053.8	1037.7	580.8
85°	71.8	95.4	141.2	161.0	198.1	170.9	245.2	378.9	527.5	521.3	209.3
87.5°	14.9	14.9	75.5	90.4	122.6	73.1	136.2	164.7	255.1	239.0	85.4
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°	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6	1177.6
2.5°	1183.8	1150.4	1083.5	1030.3	975.8	944.8	906.4	887.9	884.2	874.2	881.7
5°	1204.9	1139.2	1012.9	930.0	874.2	847.0	833.4	828.4	827.2	824.7	824.7
7.5°	1233.4	1133.1	968.4	884.2	848.2	839.6	843.3	850.7	852.0	854.4	853.2
10°	1268.0	1134.3	943.6	873.0	855.7	856.9	869.3	879.2	884.2	887.9	886.6
12.5°	1316.3	1149.2	939.9	880.4	873.0	878.0	890.3	900.3	905.2	906.4	906.4
15°	1379.5	1180.1	948.5	896.5	890.3	894.1	901.5	905.2	906.4	905.2	905.2
17.5°	1448.8	1217.3	960.9	906.4	896.5	892.8	890.3	886.6	879.2	874.2	874.2
20°	1515.7	1250.7	967.1	905.2	887.9	873.0	858.2	839.6	827.2	817.3	817.3
22.5°	1582.6	1281.7	967.1	891.6	864.3	835.9	804.9	775.2	756.6	744.2	744.2
25°	1653.1	1311.4	959.7	868.1	827.2	786.3	744.2	707.1	688.5	676.1	673.6
27.5°	1712.6	1328.7	939.9	834.6	781.4	729.4	681.1	642.7	629.1	617.9	617.9
30°	1775.7	1339.9	902.7	791.3	729.4	669.9	620.4	589.4	574.6	558.5	557.2
32.5°	1846.3	1347.3	860.6	745.5	676.1	613.0	570.9	546.1	513.9	496.6	494.1
35°	1928.1	1357.2	816.0	693.5	622.9	565.9	541.1	500.3	469.3	454.5	453.2
37.5°	2014.7	1364.6	767.8	647.6	574.6	535.0	510.2	461.9	434.6	412.4	409.9
40°	2106.4	1364.6	718.2	603.1	536.2	521.3	474.3	430.9	385.1	374.0	371.5
42.5°	2207.9	1362.1	668.7	559.7	500.3	490.4	453.2	407.4	383.9	374.0	371.5
45°	2315.6	1353.5	621.6	510.2	463.1	443.3	414.8	402.5	392.5	392.5	392.5
47.5°	2438.2	1346.0	568.4	465.6	435.9	413.6	392.5	385.1	383.9	387.6	391.3
50°	2595.5	1343.6	523.8	433.4	414.8	388.8	386.4	380.2	381.4	381.4	381.4
52.5°	2786.2	1321.3	481.7	409.9	393.8	362.8	370.3	376.4	378.9	377.7	376.4
55°	2926.1	1281.7	445.8	393.8	378.9	352.9	362.8	372.7	375.2	371.5	371.5
57.5°	3052.4	1225.9	417.3	381.4	369.0	346.7	357.9	367.8	365.3	364.1	362.8
60°	3197.3	1172.7	395.0	375.2	359.1	344.3	354.2	360.3	356.6	354.2	352.9
62.5°	3354.6	1120.7	378.9	375.2	351.7	343.0	350.4	352.9	345.5	343.0	343.0
65°	3427.7	1038.9	361.6	375.2	348.0	340.5	343.0	340.5	333.1	333.1	331.9
67.5°	3307.5	904.0	339.3	370.3	352.9	336.8	331.9	328.2	319.5	319.5	317.0
70°	2975.7	743.0	307.1	354.2	354.2	335.6	317.0	308.3	298.4	302.1	297.2
72.5°	2542.3	589.4	267.5	326.9	346.7	334.3	300.9	287.3	278.6	282.3	274.9
75°	2059.3	456.9	220.4	283.6	328.2	328.2	284.8	266.2	256.3	256.3	247.7
77.5°	1312.6	338.1	179.6	235.3	294.7	319.5	271.2	242.7	227.8	224.1	217.9
80°	650.1	237.8	147.4	187.0	251.4	299.7	261.3	215.5	194.4	187.0	175.8
82.5°	345.5	164.7	117.6	146.1	200.6	270.0	248.9	185.7	159.7	148.6	136.2
85°	154.8	101.5	94.1	111.4	152.3	221.7	224.1	152.3	122.6	146.1	107.7
87.5°	57.0	45.8	45.8	57.0	87.9	92.9	158.5	97.8	78.0	53.2	42.1
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)