

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: P397946

Luminaire Tested: **ARCH-S-PA1-60-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397946
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-PA1-60-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6640 lumens
Efficiency: N/A
Efficacy: 103.8 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



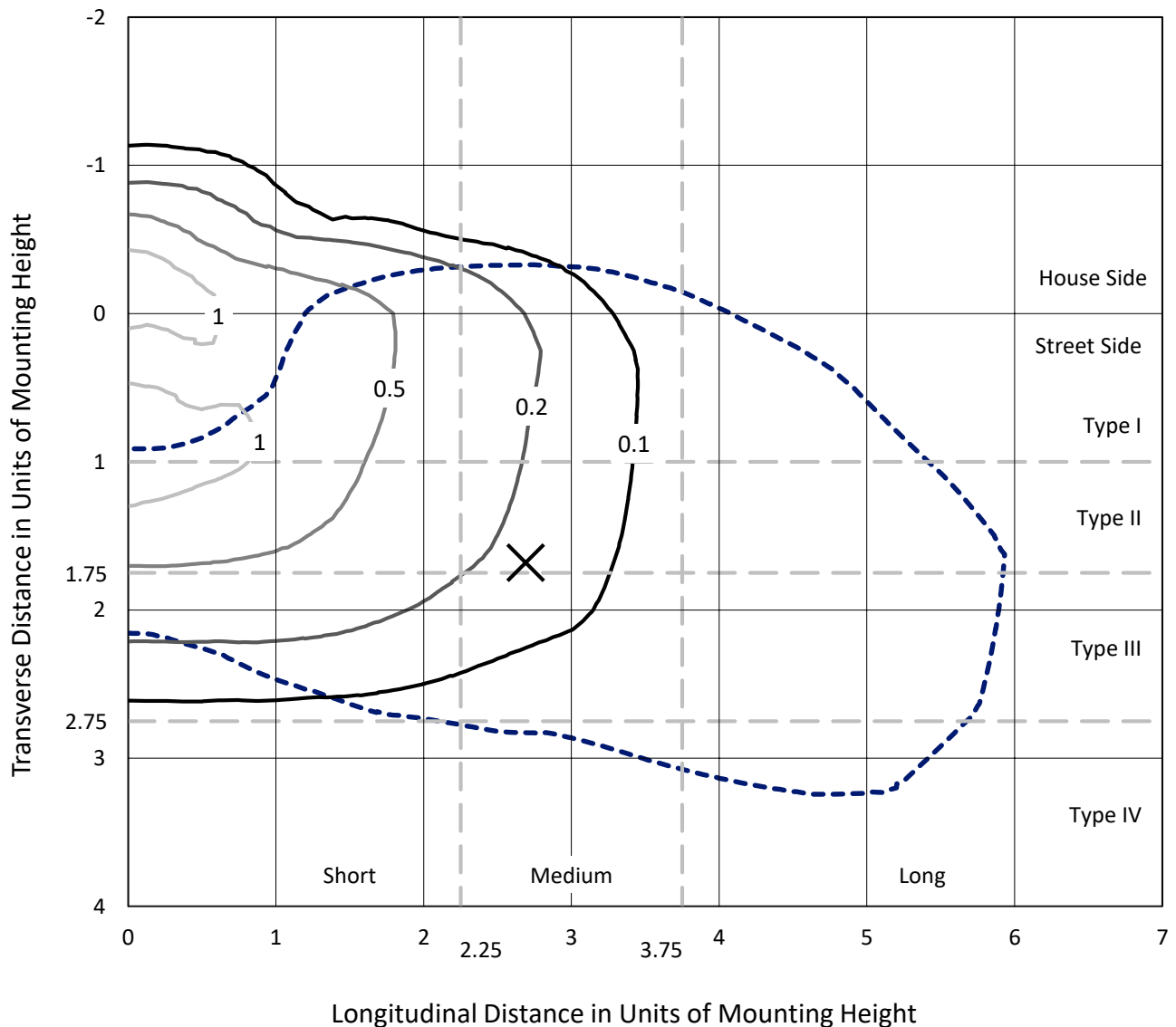


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

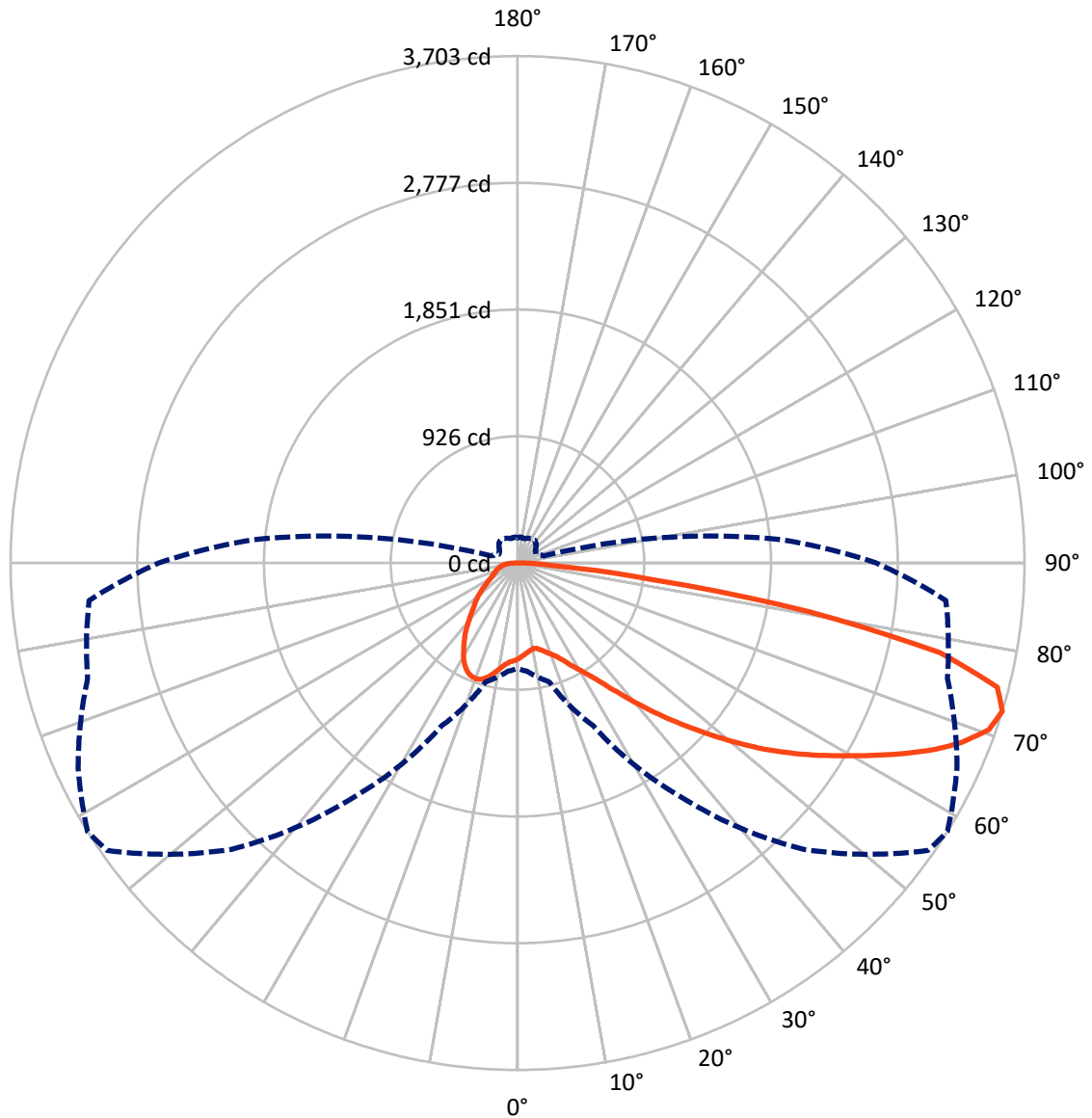


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - Non-Cutoff

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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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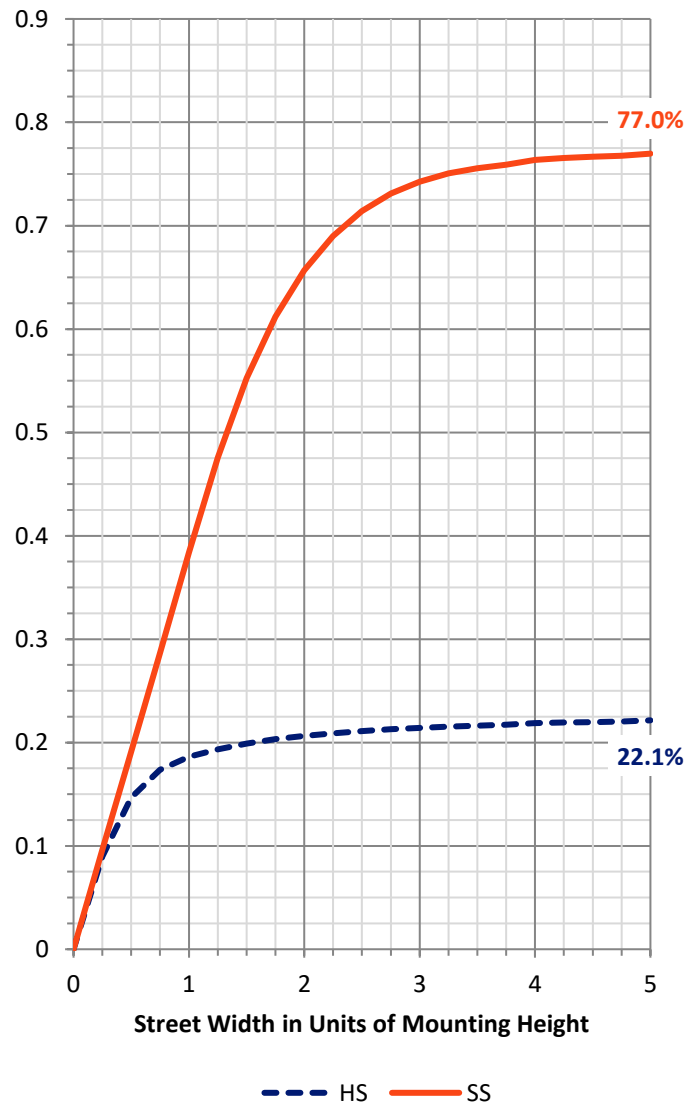
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.9	0.0	1505.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5134.1	0.0	5134.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	6640.0	0.0	6640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	1.0
10°-20°	214.3	3.2
20°-30°	383.8	5.8
30°-40°	577.4	8.7
40°-50°	935.0	14.1
50°-60°	1407.4	21.2
60°-70°	1656.4	24.9
70°-80°	1174.5	17.7
80°-90°	223.8	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°	6640.0	100.0
0°-180°	6640.0	100.0

Coefficient of Utilization



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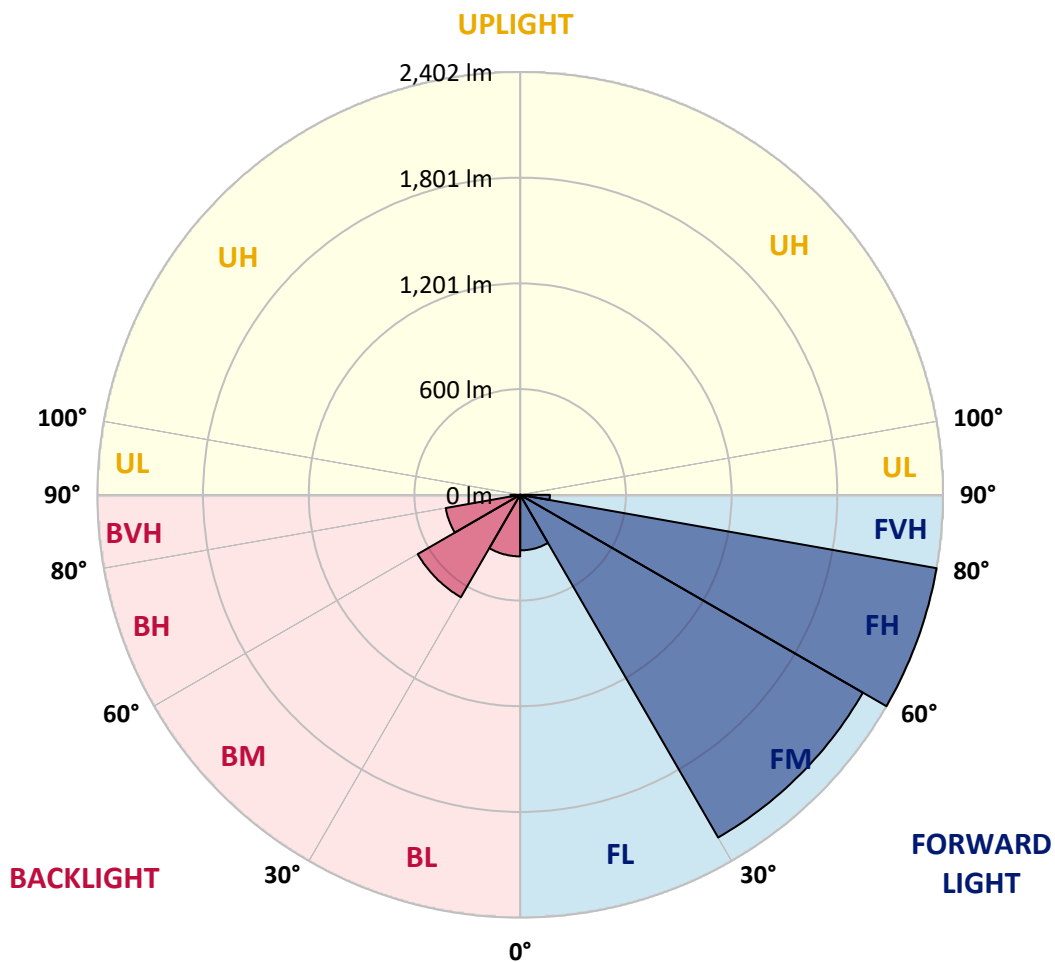
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.8	4.8			
FM (30°-60°)	2247.8	33.9			
FH (60°-80°)	2401.7	36.2			G2/5000
FVH (80°-90°)	168.8	2.5			G2/225
BL (0°-30°)	349.8	5.3	B1/500		
BM (30°-60°)	671.9	10.1	B1/1000		
BH (60°-80°)	429.2	6.5	B1/500		G1/500
BVH (80°-90°)	55.0	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°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	674.1	670.6	671.5	671.5	675.0	676.7	677.6	680.2	682.0	686.4	692.5
5°	642.5	639.9	640.8	641.6	647.8	653.9	659.2	662.7	667.9	675.0	683.7
7.5°	619.7	618.0	618.9	620.6	625.9	632.9	641.6	646.9	654.8	667.9	682.8
10°	603.1	603.1	604.0	607.5	612.7	621.5	628.5	634.6	650.4	674.1	696.9
12.5°	589.9	589.9	592.6	599.6	608.3	617.1	633.8	640.8	661.8	694.2	721.4
15°	589.1	589.9	590.8	596.9	606.6	625.9	650.4	660.9	686.4	724.9	756.5
17.5°	603.1	604.0	600.4	602.2	613.6	640.8	673.2	685.5	717.9	760.0	792.4
20°	646.0	646.0	635.5	625.9	633.8	663.6	700.4	712.7	748.6	795.0	827.5
22.5°	733.7	738.1	713.5	692.5	680.2	696.9	730.2	743.3	783.7	833.6	866.1
25°	839.8	844.1	810.8	781.0	758.2	755.6	777.5	791.5	824.9	876.6	903.7
27.5°	942.3	934.4	903.7	875.7	846.8	823.1	839.8	852.0	890.6	930.0	946.7
30°	1023.0	1016.8	987.0	966.9	939.7	909.0	899.4	912.5	944.1	980.9	989.6
32.5°	1112.4	1108.0	1078.2	1051.9	1029.1	1000.2	979.1	985.3	1002.8	1029.1	1034.4
35°	1226.3	1236.0	1204.4	1150.9	1125.5	1097.5	1082.6	1084.3	1097.5	1114.1	1105.4
37.5°	1346.4	1357.8	1359.6	1275.4	1241.2	1215.8	1200.0	1206.2	1221.9	1233.3	1206.2
40°	1569.1	1557.7	1512.1	1449.8	1397.3	1372.7	1350.8	1349.9	1361.3	1381.5	1332.4
42.5°	1864.5	1853.9	1761.9	1681.3	1598.0	1569.9	1527.0	1508.6	1513.8	1539.3	1470.9
45°	2147.6	2143.2	2069.6	1975.8	1875.9	1821.5	1723.3	1678.6	1674.2	1694.4	1612.9
47.5°	2399.2	2379.9	2326.4	2253.7	2243.1	2101.1	1920.6	1860.1	1839.0	1850.4	1759.3
50°	2668.3	2602.5	2528.9	2484.2	2560.5	2428.1	2119.5	2056.4	2004.7	2012.6	1917.9
52.5°	2811.2	2700.7	2652.5	2665.6	2768.2	2717.4	2336.1	2258.9	2175.6	2187.0	2075.7
55°	2688.4	2687.6	2708.6	2790.1	2933.0	2874.3	2542.1	2455.3	2364.1	2366.7	2257.2
57.5°	2520.1	2554.3	2663.0	2842.7	3137.2	3039.1	2744.5	2652.5	2569.2	2556.1	2463.2
60°	2366.7	2404.4	2562.2	2833.9	3208.2	3189.8	2937.4	2856.7	2789.2	2750.7	2679.7
62.5°	2133.6	2161.6	2385.1	2777.8	3148.6	3298.5	3132.9	3077.6	3026.8	2947.0	2912.8
65°	1859.2	1868.8	2104.6	2592.9	3074.1	3340.6	3327.5	3302.9	3253.8	3136.4	3143.4
67.5°	1562.0	1581.3	1788.2	2297.5	2911.1	3321.3	3478.2	3498.4	3440.5	3264.3	3290.6
70°	1245.6	1269.3	1426.2	1889.0	2634.1	3238.0	3617.6	3650.0	3538.7	3306.4	3317.8
72.5°	770.5	793.3	898.5	1312.2	2088.0	2958.4	3660.6	3702.6	3541.3	3250.3	3140.7
75°	266.5	269.1	351.5	629.4	1239.5	2233.5	3520.3	3619.4	3430.0	3046.1	2733.1
77.5°	121.8	126.2	156.0	259.5	549.6	1205.3	2906.7	3154.8	3091.7	2727.0	2103.8
80°	84.2	85.9	107.8	155.2	317.3	424.3	1834.7	2158.1	2268.6	2111.7	1348.2
82.5°	63.1	64.9	83.3	105.2	228.8	206.0	698.6	1002.8	1246.5	1223.7	563.6
85°	60.5	59.6	64.9	70.1	152.5	122.7	226.2	310.3	486.5	416.4	142.0
87.5°	26.3	28.9	66.6	39.4	79.8	57.0	98.2	114.8	148.1	128.9	50.8
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°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	695.1	696.9	702.1	710.0	714.4	723.2	729.3	732.8	735.4	736.3	736.3
5°	689.0	692.5	703.9	717.0	729.3	747.7	764.4	774.0	781.0	783.7	784.5
7.5°	690.7	699.5	716.2	735.4	751.2	774.9	795.0	814.3	830.1	836.2	836.2
10°	707.4	719.7	742.5	767.9	788.0	812.6	833.6	850.3	868.7	879.2	881.0
12.5°	732.8	747.7	777.5	805.6	828.4	847.6	866.9	879.2	888.0	895.9	897.6
15°	768.8	787.2	817.0	845.9	866.1	878.3	883.6	883.6	882.7	883.6	885.3
17.5°	804.7	822.2	852.0	881.0	890.6	883.6	877.4	875.7	874.8	873.1	873.9
20°	839.8	856.4	881.8	903.7	895.9	871.3	863.4	862.5	859.9	858.2	856.4
22.5°	874.8	887.1	908.1	916.0	884.5	849.4	839.8	834.5	831.0	826.6	822.2
25°	915.1	918.6	934.4	922.2	856.4	809.1	795.0	787.2	783.7	779.3	775.8
27.5°	952.8	952.8	955.5	912.5	815.2	755.6	734.6	720.5	719.7	718.8	717.9
30°	987.0	982.6	973.9	883.6	761.7	689.9	658.3	644.3	649.5	653.9	654.8
32.5°	1027.3	1018.6	994.0	844.1	697.7	616.2	577.7	571.5	577.7	582.9	579.4
35°	1090.5	1074.7	1015.1	798.6	636.4	548.7	511.9	503.2	501.4	500.5	493.5
37.5°	1180.7	1153.6	1031.7	749.5	575.9	489.1	462.0	443.5	426.9	409.4	406.7
40°	1291.2	1244.7	1043.1	693.4	511.9	439.2	410.2	386.6	358.5	327.8	324.3
42.5°	1412.2	1342.9	1048.4	631.1	455.8	398.0	362.0	332.2	300.7	277.0	272.6
45°	1542.8	1449.0	1044.0	571.5	410.2	362.9	322.6	290.1	264.7	248.1	244.6
47.5°	1669.9	1570.8	1031.7	524.2	375.2	333.1	291.9	262.1	242.8	224.4	220.0
50°	1832.9	1687.4	1016.8	487.4	336.6	303.3	272.6	241.1	219.1	210.4	208.6
52.5°	2013.5	1804.0	999.3	440.9	298.9	279.6	260.3	232.3	225.3	208.6	206.0
55°	2209.0	1942.5	995.8	382.2	265.6	263.0	248.1	240.2	241.9	208.6	204.2
57.5°	2414.9	2090.6	1003.7	323.5	238.4	248.1	253.3	247.2	244.6	213.0	204.2
60°	2629.7	2233.5	980.0	269.1	217.4	235.8	259.5	243.7	224.4	211.3	205.1
62.5°	2838.3	2353.6	877.4	230.5	201.6	232.3	256.0	230.5	208.6	208.6	206.0
65°	2990.0	2407.1	686.4	202.5	191.1	227.9	249.8	221.8	204.2	210.4	206.9
67.5°	3007.5	2351.8	461.1	180.6	182.3	220.0	235.8	213.9	199.9	215.6	210.4
70°	2899.7	2208.1	282.3	163.9	170.9	206.0	223.5	206.0	193.7	211.3	203.4
72.5°	2620.1	1939.8	199.0	149.9	158.7	192.8	212.1	199.0	185.0	191.1	183.2
75°	2149.3	1503.3	157.8	136.7	146.4	180.6	202.5	188.5	174.4	171.8	166.5
77.5°	1522.6	963.3	127.1	126.2	133.2	165.7	189.3	176.2	162.2	156.9	153.4
80°	875.7	472.5	109.6	114.0	121.0	150.8	173.6	162.2	149.0	141.1	135.9
82.5°	334.8	164.8	96.4	99.1	106.9	135.0	157.8	148.1	135.0	142.0	119.2
85°	108.7	90.3	78.9	81.5	89.4	112.2	139.4	131.5	116.6	103.4	95.5
87.5°	48.2	49.1	42.1	46.5	56.1	74.5	101.7	96.4	85.0	71.0	68.4
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)