

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: P397766

Luminaire Tested: **ARCH-S-PA1-40-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397766
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-PA1-40-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5558 lumens
Efficiency: N/A
Efficacy: 139.0 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): 40
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

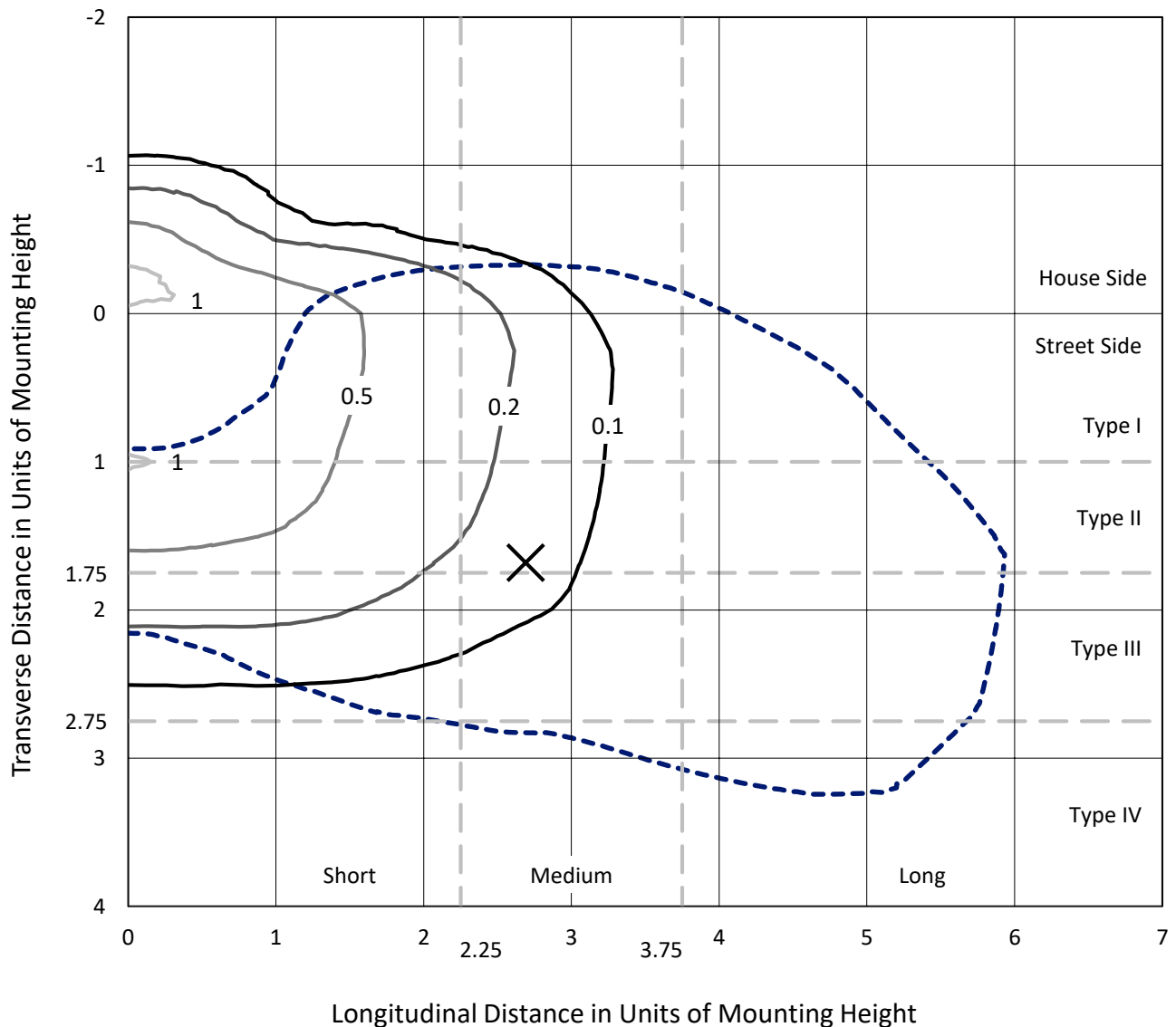


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

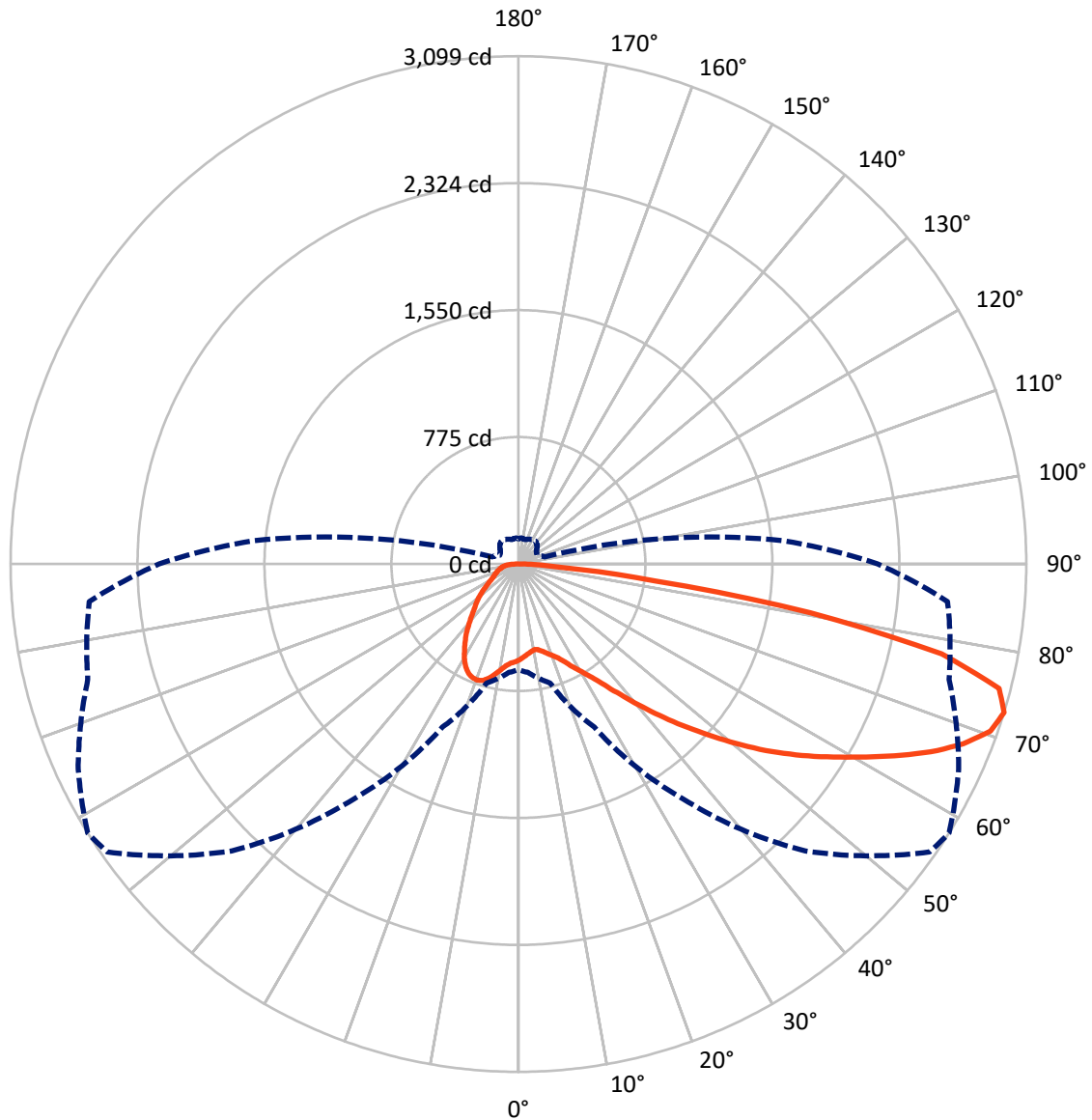


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - Non-Cutoff

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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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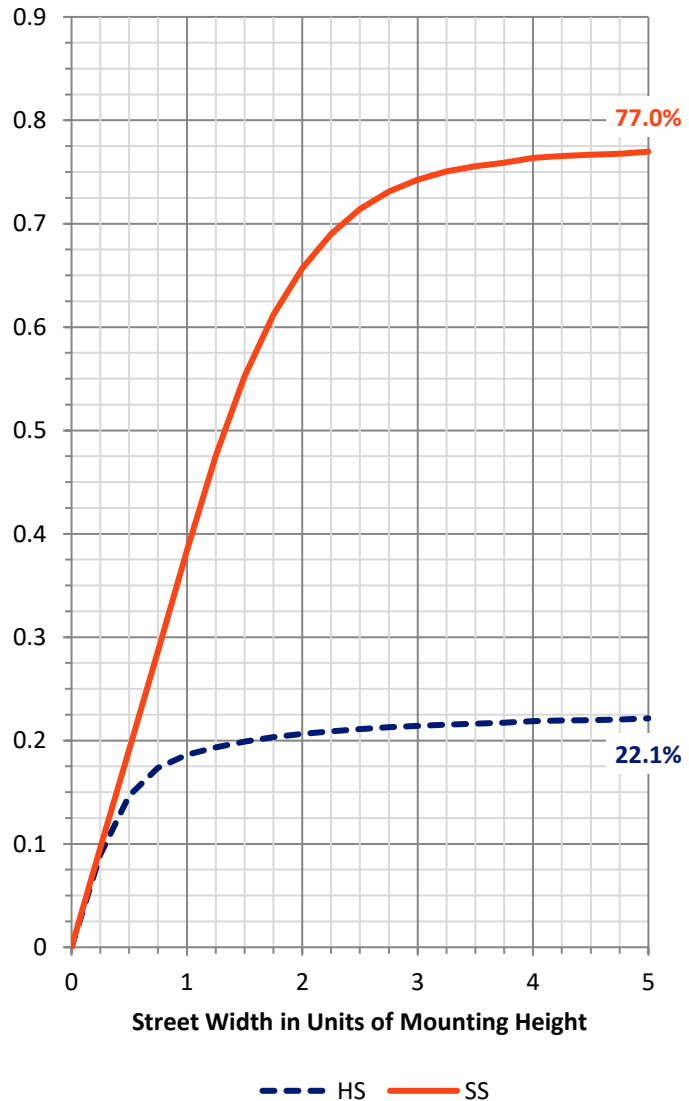
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.5	0.0	1260.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	4297.5	0.0	4297.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	5558.0	0.0	5558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.0
10°-20°	179.3	3.2
20°-30°	321.3	5.8
30°-40°	483.3	8.7
40°-50°	782.6	14.1
50°-60°	1178.1	21.2
60°-70°	1386.5	24.9
70°-80°	983.1	17.7
80°-90°	187.3	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°	5558.0	100.0
0°-180°	5558.0	100.0

Coefficient of Utilization



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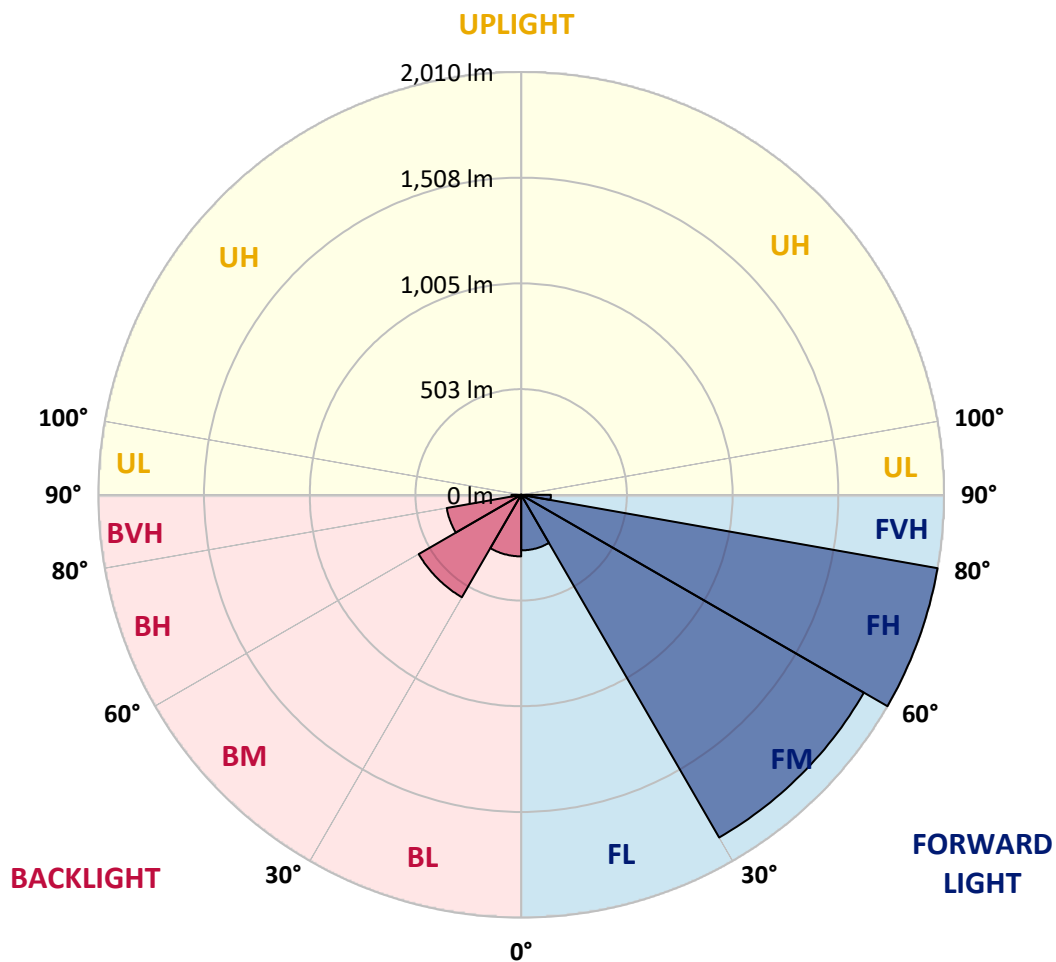
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.3	4.8			
FM	(30°-60°)	1881.5	33.9			
FH	(60°-80°)	2010.4	36.2			G2/5000
FVH	(80°-90°)	141.3	2.5			G2/225
BL	(0°-30°)	292.8	5.3	B1/500		
BM	(30°-60°)	562.4	10.1	B1/1000		
BH	(60°-80°)	359.3	6.5	B1/500		G1/500
BVH	(80°-90°)	46.0	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°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	564.2	561.3	562.0	562.0	565.0	566.4	567.2	569.4	570.8	574.5	579.6
5°	537.8	535.6	536.4	537.1	542.2	547.4	551.8	554.7	559.1	565.0	572.3
7.5°	518.7	517.3	518.0	519.5	523.9	529.8	537.1	541.5	548.1	559.1	571.6
10°	504.8	504.8	505.5	508.5	512.9	520.2	526.1	531.2	544.4	564.2	583.3
12.5°	493.8	493.8	496.0	501.9	509.2	516.5	530.5	536.4	554.0	581.1	603.9
15°	493.1	493.8	494.5	499.7	507.7	523.9	544.4	553.2	574.5	606.8	633.2
17.5°	504.8	505.5	502.6	504.1	513.6	536.4	563.5	573.8	600.9	636.1	663.3
20°	540.8	540.8	532.0	523.9	530.5	555.4	586.3	596.5	626.6	665.5	692.6
22.5°	614.1	617.8	597.3	579.6	569.4	583.3	611.2	622.2	656.0	697.8	724.9
25°	702.9	706.6	678.7	653.8	634.7	632.5	650.8	662.6	690.4	733.7	756.5
27.5°	788.8	782.2	756.5	733.0	708.8	689.0	702.9	713.2	745.5	778.5	792.4
30°	856.3	851.1	826.2	809.3	786.6	760.9	752.8	763.8	790.2	821.0	828.4
32.5°	931.1	927.4	902.5	880.5	861.4	837.2	819.6	824.7	839.4	861.4	865.8
35°	1026.5	1034.6	1008.1	963.4	942.1	918.6	906.2	907.6	918.6	932.6	925.2
37.5°	1127.0	1136.5	1138.0	1067.6	1039.0	1017.7	1004.5	1009.6	1022.8	1032.4	1009.6
40°	1313.4	1303.8	1265.7	1213.6	1169.6	1149.0	1130.7	1129.9	1139.5	1156.4	1115.3
42.5°	1560.6	1551.8	1474.8	1407.3	1337.6	1314.1	1278.2	1262.8	1267.2	1288.4	1231.2
45°	1797.6	1794.0	1732.3	1653.8	1570.2	1524.7	1442.5	1405.1	1401.4	1418.3	1350.1
47.5°	2008.2	1992.1	1947.3	1886.4	1877.6	1758.8	1607.6	1557.0	1539.4	1548.9	1472.6
50°	2233.5	2178.4	2116.8	2079.4	2143.2	2032.4	1774.2	1721.3	1678.0	1684.6	1605.4
52.5°	2353.1	2260.6	2220.3	2231.3	2317.1	2274.6	1955.4	1890.8	1821.1	1830.7	1737.5
55°	2250.4	2249.6	2267.2	2335.5	2455.1	2405.9	2127.8	2055.2	1978.9	1981.1	1889.4
57.5°	2109.5	2138.1	2229.1	2379.5	2626.0	2543.8	2297.3	2220.3	2150.6	2139.6	2061.8
60°	1981.1	2012.6	2144.7	2372.2	2685.5	2670.0	2458.7	2391.2	2334.7	2302.4	2243.0
62.5°	1785.9	1809.4	1996.5	2325.2	2635.6	2761.0	2622.4	2576.1	2533.6	2466.8	2438.2
65°	1556.2	1564.3	1761.7	2170.4	2573.2	2796.2	2785.2	2764.7	2723.6	2625.3	2631.2
67.5°	1307.5	1323.7	1496.8	1923.1	2436.7	2780.1	2911.4	2928.3	2879.9	2732.4	2754.4
70°	1042.6	1062.4	1193.8	1581.2	2204.9	2710.4	3028.1	3055.3	2962.1	2767.6	2777.2
72.5°	644.9	664.0	752.1	1098.4	1747.7	2476.3	3064.1	3099.3	2964.3	2720.7	2629.0
75°	223.1	225.3	294.2	526.8	1037.5	1869.5	2946.7	3029.6	2871.1	2549.7	2287.8
77.5°	102.0	105.7	130.6	217.2	460.0	1008.9	2433.1	2640.7	2587.9	2282.6	1761.0
80°	70.4	71.9	90.2	129.9	265.6	355.1	1535.7	1806.4	1898.9	1767.6	1128.5
82.5°	52.8	54.3	69.7	88.0	191.5	172.4	584.8	839.4	1043.4	1024.3	471.8
85°	50.6	49.9	54.3	58.7	127.7	102.7	189.3	259.7	407.2	348.5	118.9
87.5°	22.0	24.2	55.8	33.0	66.8	47.7	82.2	96.1	124.0	107.9	42.6
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°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	581.8	583.3	587.7	594.3	598.0	605.3	610.5	613.4	615.6	616.3	616.3
5°	576.7	579.6	589.2	600.2	610.5	625.9	639.8	647.9	653.8	656.0	656.7
7.5°	578.2	585.5	599.5	615.6	628.8	648.6	665.5	681.6	694.8	700.0	700.0
10°	592.1	602.4	621.5	642.7	659.6	680.2	697.8	711.7	727.1	735.9	737.4
12.5°	613.4	625.9	650.8	674.3	693.4	709.5	725.7	735.9	743.3	749.9	751.3
15°	643.5	658.9	683.8	708.1	724.9	735.2	739.6	739.6	738.9	739.6	741.1
17.5°	673.6	688.2	713.2	737.4	745.5	739.6	734.5	733.0	732.3	730.8	731.5
20°	702.9	716.9	738.1	756.5	749.9	729.3	722.7	722.0	719.8	718.3	716.9
22.5°	732.3	742.5	760.1	766.7	740.3	711.0	702.9	698.5	695.6	691.9	688.2
25°	766.0	768.9	782.2	771.9	716.9	677.2	665.5	658.9	656.0	652.3	649.4
27.5°	797.6	797.6	799.8	763.8	682.4	632.5	614.9	603.1	602.4	601.7	600.9
30°	826.2	822.5	815.2	739.6	637.6	577.4	551.0	539.3	543.7	547.4	548.1
32.5°	859.9	852.6	832.1	706.6	584.0	515.8	483.5	478.4	483.5	487.9	485.0
35°	912.8	899.6	849.7	668.4	532.7	459.3	428.5	421.2	419.7	419.0	413.1
37.5°	988.3	965.6	863.6	627.3	482.1	409.4	386.7	371.3	357.3	342.7	340.5
40°	1080.8	1041.9	873.1	580.4	428.5	367.6	343.4	323.6	300.1	274.4	271.5
42.5°	1182.0	1124.1	877.5	528.3	381.5	333.1	303.0	278.1	251.7	231.9	228.2
45°	1291.4	1212.9	873.9	478.4	343.4	303.8	270.0	242.9	221.6	207.6	204.7
47.5°	1397.8	1314.8	863.6	438.8	314.0	278.8	244.3	219.4	203.2	187.8	184.2
50°	1534.2	1412.4	851.1	408.0	281.8	253.9	228.2	201.8	183.4	176.1	174.6
52.5°	1685.4	1510.0	836.5	369.1	250.2	234.1	217.9	194.4	188.6	174.6	172.4
55°	1849.0	1625.9	833.5	319.9	222.3	220.1	207.6	201.0	202.5	174.6	171.0
57.5°	2021.4	1749.9	840.1	270.7	199.6	207.6	212.0	206.9	204.7	178.3	171.0
60°	2201.2	1869.5	820.3	225.3	182.0	197.4	217.2	204.0	187.8	176.8	171.7
62.5°	2375.8	1970.1	734.5	193.0	168.8	194.4	214.2	193.0	174.6	174.6	172.4
65°	2502.8	2014.8	574.5	169.5	160.0	190.8	209.1	185.6	171.0	176.1	173.2
67.5°	2517.4	1968.6	385.9	151.1	152.6	184.2	197.4	179.0	167.3	180.5	176.1
70°	2427.2	1848.3	236.3	137.2	143.1	172.4	187.1	172.4	162.2	176.8	170.2
72.5°	2193.1	1623.7	166.6	125.5	132.8	161.4	177.6	166.6	154.8	160.0	153.3
75°	1799.1	1258.3	132.1	114.5	122.5	151.1	169.5	157.8	146.0	143.8	139.4
77.5°	1274.5	806.4	106.4	105.7	111.5	138.7	158.5	147.5	135.7	131.3	128.4
80°	733.0	395.5	91.7	95.4	101.3	126.2	145.3	135.7	124.7	118.1	113.7
82.5°	280.3	137.9	80.7	82.9	89.5	113.0	132.1	124.0	113.0	118.9	99.8
85°	91.0	75.6	66.0	68.2	74.8	93.9	116.7	110.1	97.6	86.6	80.0
87.5°	40.4	41.1	35.2	38.9	47.0	62.4	85.1	80.7	71.2	59.4	57.2
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)