

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: P397957

Luminaire Tested: **ARCH-S-PA1-60-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397957
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-PA1-60-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7133 lumens
Efficiency: N/A
Efficacy: 111.5 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

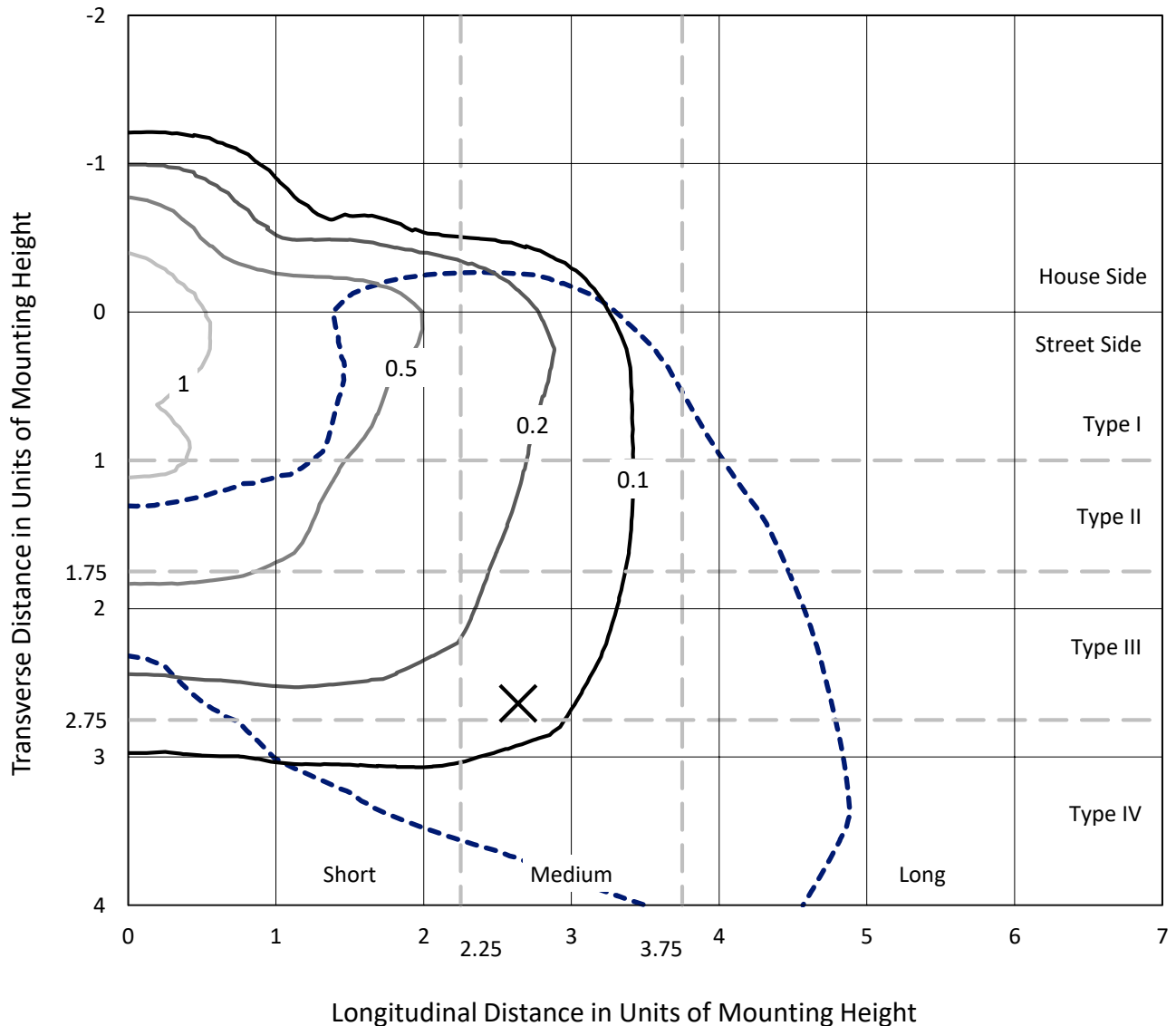


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

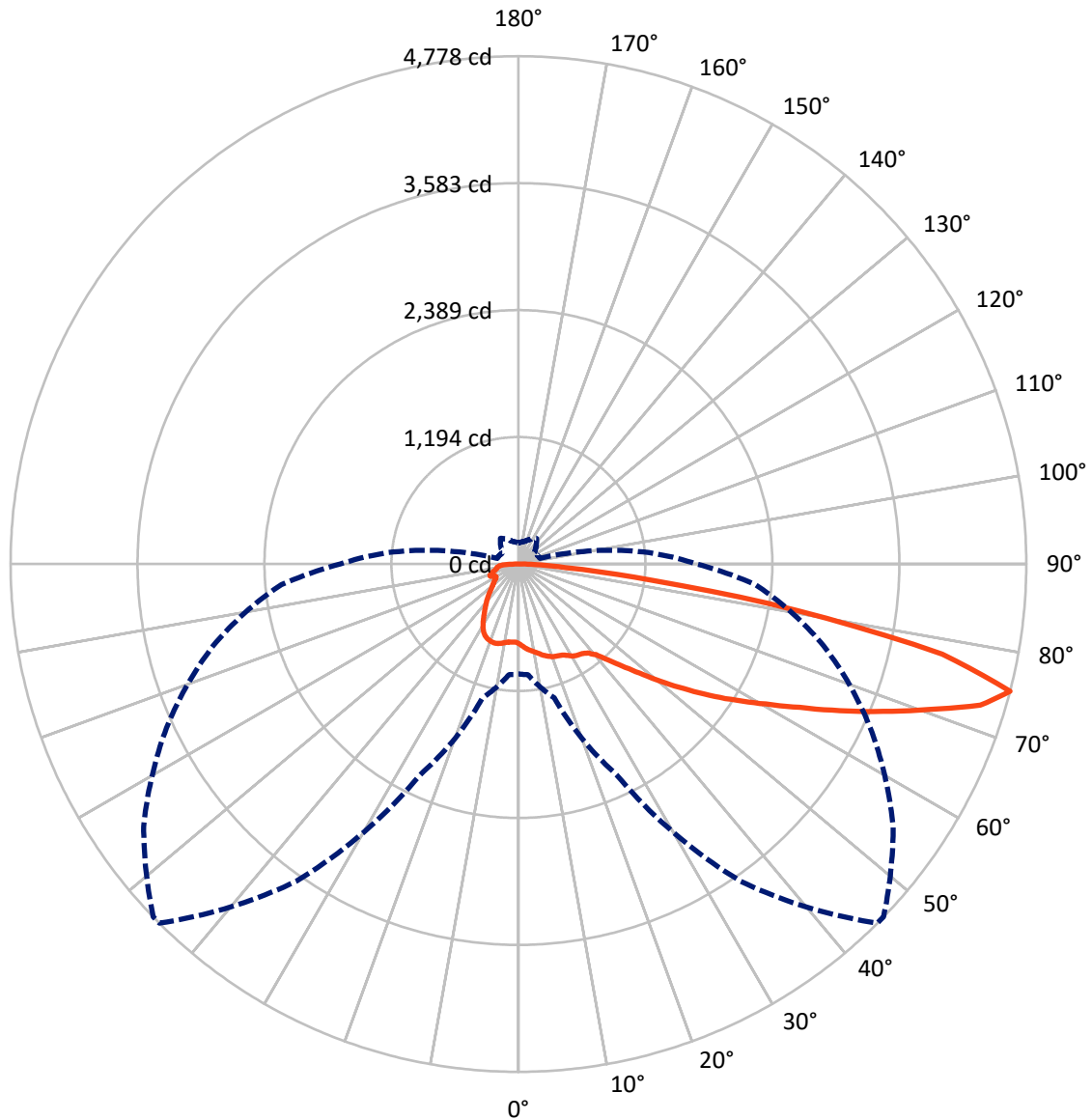


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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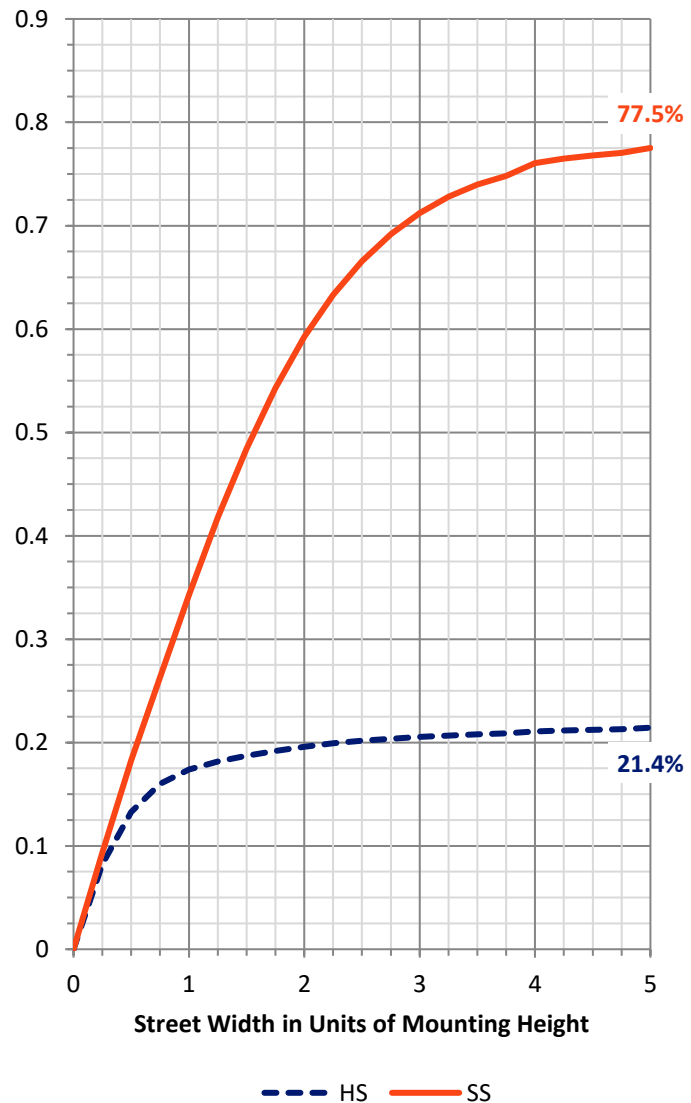
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1576.3	0.0	1576.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5556.6	0.0	5556.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	7133.0	0.0	7133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.0
10°-20°	235.8	3.3
20°-30°	402.0	5.6
30°-40°	563.2	7.9
40°-50°	827.4	11.6
50°-60°	1316.8	18.5
60°-70°	1873.2	26.3
70°-80°	1568.4	22.0
80°-90°	272.2	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°	7133.0	100.0
0°-180°	7133.0	100.0



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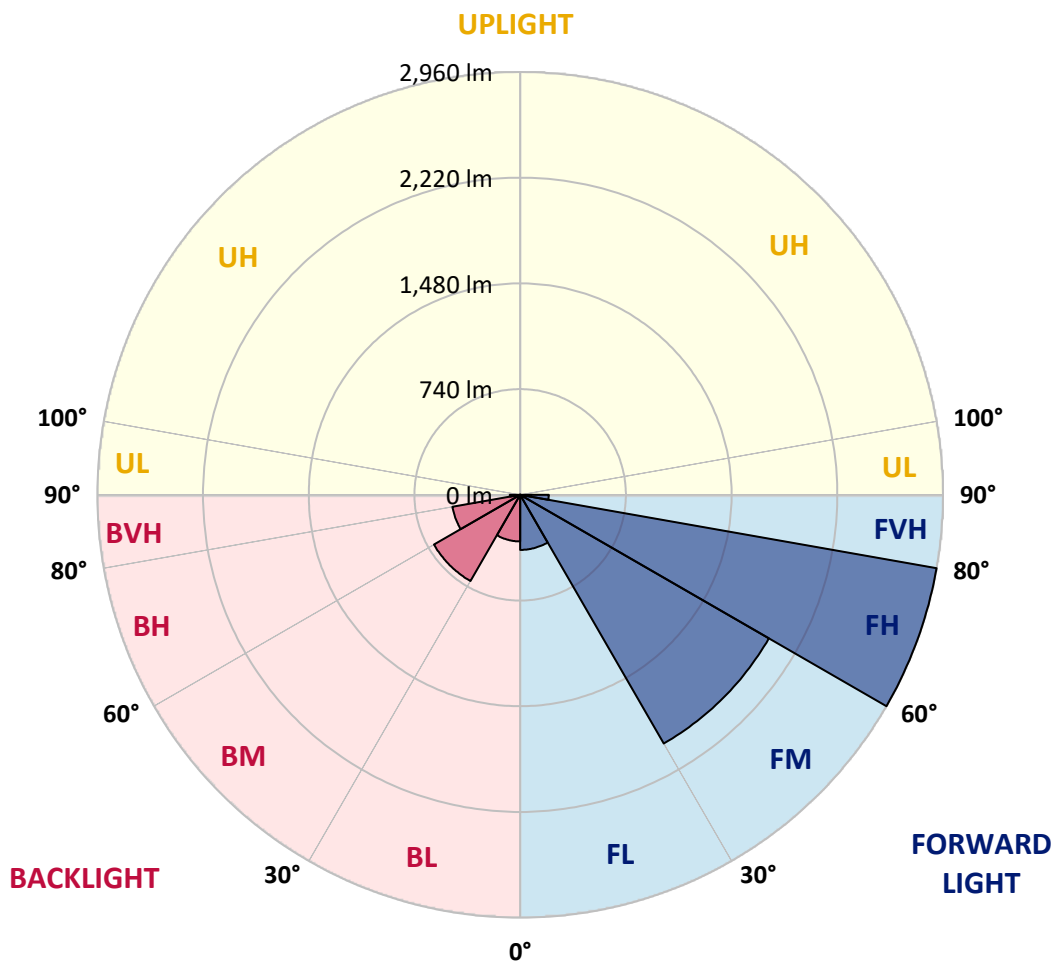
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.6	5.4			
FM	(30°-60°)	2010.6	28.2			
FH	(60°-80°)	2960.4	41.5			G2/5000
FVH	(80°-90°)	200.1	2.8			G2/225
BL	(0°-30°)	326.2	4.6	B1/500		
BM	(30°-60°)	696.8	9.8	B1/1000		
BH	(60°-80°)	481.2	6.7	B1/500		G1/500
BVH	(80°-90°)	72.1	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°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	792.0	788.2	786.3	786.3	778.7	773.9	772.9	766.3	760.6	754.8	750.1
5°	837.8	834.9	829.2	824.4	813.9	800.6	798.7	784.4	770.1	756.7	745.3
7.5°	879.7	874.0	867.3	857.8	840.6	822.5	819.6	799.6	779.6	759.6	744.4
10°	915.0	909.2	899.7	886.4	864.4	842.5	839.7	818.7	797.7	773.9	752.0
12.5°	948.3	943.5	929.3	911.1	885.4	865.4	862.5	844.4	822.5	795.8	767.2
15°	976.9	972.1	956.9	935.9	906.4	891.1	887.3	870.2	848.2	819.6	790.1
17.5°	991.2	991.2	975.0	952.1	924.5	913.1	910.2	889.2	869.2	841.6	812.0
20°	996.0	997.9	986.4	958.8	935.0	930.2	927.3	910.2	887.3	860.6	833.0
22.5°	998.8	1002.6	993.1	961.7	941.6	938.8	936.9	925.4	907.3	881.6	854.0
25°	1008.4	1008.4	1001.7	966.4	950.2	949.3	949.3	942.6	930.2	908.3	880.6
27.5°	1022.7	1021.7	1013.1	976.9	969.3	972.1	971.2	970.2	961.7	939.7	910.2
30°	1046.5	1046.5	1037.0	997.9	993.1	1005.5	1006.5	1008.4	995.0	960.7	936.9
32.5°	1082.7	1078.9	1069.4	1018.8	1011.2	1022.7	1024.6	1023.6	1012.2	979.8	968.3
35°	1194.2	1185.6	1151.3	1065.5	1027.4	1034.1	1035.0	1039.8	1041.7	1016.0	1010.3
37.5°	1389.6	1378.2	1325.7	1176.1	1078.9	1062.7	1061.7	1074.1	1084.6	1061.7	1061.7
40°	1602.1	1592.6	1562.1	1366.7	1174.2	1120.8	1117.0	1128.4	1141.8	1125.6	1130.4
42.5°	1785.1	1792.7	1795.6	1568.8	1317.2	1229.5	1219.0	1202.8	1223.8	1209.5	1228.5
45°	1922.4	1918.6	1971.0	1775.6	1502.1	1365.8	1351.5	1307.6	1334.3	1333.4	1375.3
47.5°	2068.2	2061.5	2083.4	1970.0	1712.7	1532.6	1510.6	1445.8	1485.9	1513.5	1583.1
50°	2206.4	2208.3	2215.9	2123.5	1941.4	1735.6	1707.9	1621.2	1678.4	1736.5	1834.7
52.5°	2386.5	2373.2	2363.6	2302.6	2197.8	1947.1	1929.0	1829.9	1910.0	1978.6	2109.2
55°	2543.8	2535.2	2529.5	2526.6	2412.2	2180.6	2161.6	2058.7	2174.0	2222.6	2415.1
57.5°	2711.5	2706.7	2737.2	2785.9	2740.1	2418.0	2397.9	2298.8	2427.5	2461.8	2746.8
60°	2834.5	2837.3	2921.2	3045.1	3013.6	2675.3	2651.5	2563.8	2674.3	2704.8	3078.4
62.5°	2835.4	2864.0	3058.4	3280.5	3316.7	2971.7	2944.1	2848.8	2927.9	2927.9	3375.8
65°	2564.7	2597.1	3033.7	3338.6	3623.6	3324.3	3297.7	3148.0	3177.6	3137.5	3655.1
67.5°	2295.0	2333.1	2743.9	3343.4	3839.0	3701.8	3670.3	3447.3	3396.8	3295.8	3850.4
70°	2115.8	2142.5	2485.6	3281.5	3968.6	4096.3	4072.5	3731.3	3569.3	3428.2	3809.5
72.5°	1781.3	1771.8	2099.6	2987.0	4041.1	4544.3	4524.3	4040.1	3718.9	3365.3	3249.1
75°	1034.1	1045.5	1302.9	2188.3	3642.7	4777.8	4775.9	4304.1	3653.2	2972.7	2238.8
77.5°	298.3	306.9	427.9	961.7	2303.6	4075.4	4205.9	3936.2	3088.0	2118.7	1160.9
80°	130.6	137.2	185.9	320.2	992.2	2662.0	2776.3	2662.0	1862.3	972.1	455.6
82.5°	77.2	82.0	121.0	198.2	475.6	1266.6	1421.0	1240.9	803.4	412.7	188.7
85°	43.8	45.7	69.6	125.8	299.3	443.2	497.5	466.1	391.7	234.5	99.1
87.5°	20.0	21.0	34.3	59.1	167.7	149.6	155.4	205.9	226.8	143.0	49.6
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°	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1	749.1
2.5°	748.2	745.3	739.6	737.7	734.8	735.8	736.7	736.7	737.7	734.8	734.8
5°	740.5	735.8	730.1	730.1	730.1	737.7	744.4	748.2	750.1	750.1	748.2
7.5°	737.7	732.0	725.3	727.2	729.1	738.6	751.0	763.4	767.2	767.2	765.3
10°	743.4	737.7	732.9	735.8	740.5	748.2	757.7	769.1	778.7	779.6	778.7
12.5°	756.7	750.1	745.3	751.0	756.7	761.5	766.3	771.0	783.4	785.3	785.3
15°	778.7	772.0	766.3	771.0	772.9	772.9	772.9	772.9	785.3	787.2	787.2
17.5°	800.6	794.9	789.2	790.1	784.4	776.8	773.9	772.9	779.6	785.3	786.3
20°	821.6	816.8	811.1	801.5	787.2	772.9	768.2	768.2	772.0	780.6	780.6
22.5°	844.4	838.7	829.2	807.3	783.4	763.4	758.7	761.5	766.3	777.7	776.8
25°	870.2	862.5	846.3	805.4	771.0	747.2	748.2	756.7	765.3	777.7	777.7
27.5°	898.8	888.3	855.9	790.1	743.4	720.5	729.1	749.1	761.5	774.9	776.8
30°	930.2	920.7	863.5	763.4	698.6	677.6	698.6	731.0	750.1	762.5	765.3
32.5°	968.3	960.7	870.2	729.1	640.5	622.4	652.9	692.9	723.4	737.7	740.5
35°	1016.0	1008.4	878.7	690.0	586.1	567.1	594.7	635.7	675.7	693.8	699.6
37.5°	1077.9	1066.5	886.4	648.1	540.4	518.5	531.8	569.0	605.2	630.0	636.7
40°	1157.0	1138.9	893.0	600.4	500.4	475.6	480.4	498.5	519.4	541.3	549.9
42.5°	1268.5	1232.3	894.0	549.9	459.4	436.5	434.6	440.3	440.3	440.3	443.2
45°	1423.9	1355.3	895.9	502.3	417.4	393.6	387.9	386.0	371.7	344.1	342.2
47.5°	1620.2	1516.4	904.5	462.2	373.6	352.6	345.0	337.4	310.7	282.1	276.4
50°	1871.8	1703.2	921.6	424.1	336.4	322.1	312.6	294.5	265.0	243.0	237.3
52.5°	2161.6	1925.2	937.8	384.1	308.8	299.3	287.8	265.9	234.5	221.1	219.2
55°	2494.2	2173.0	970.2	348.8	285.0	278.3	267.8	246.8	223.0	213.5	212.5
57.5°	2834.5	2450.4	1016.0	317.4	262.1	258.3	258.3	240.2	224.9	221.1	221.1
60°	3162.3	2688.6	980.7	287.8	241.1	243.0	261.1	256.4	244.9	249.7	252.6
62.5°	3416.8	2828.7	795.8	264.0	225.9	243.0	289.7	289.7	276.4	274.5	274.5
65°	3525.4	2826.8	559.5	245.9	220.2	266.9	323.1	307.8	272.6	259.2	256.4
67.5°	3497.8	2702.9	386.0	233.5	218.3	291.6	338.3	295.5	255.4	244.0	235.4
70°	3254.8	2440.8	297.4	222.1	215.4	281.2	333.6	281.2	242.1	231.6	224.0
72.5°	2625.7	1957.6	246.8	210.6	204.0	260.2	317.4	267.8	231.6	220.2	212.5
75°	1674.6	1231.4	208.7	195.4	182.0	233.5	295.5	254.5	220.2	204.9	199.2
77.5°	805.4	530.9	182.0	177.3	163.9	216.3	273.5	237.3	204.9	192.5	188.7
80°	326.0	243.0	158.2	159.2	150.6	205.9	258.3	221.1	189.7	176.3	169.6
82.5°	169.6	141.1	133.4	137.2	137.2	196.3	246.8	207.8	176.3	170.6	148.7
85°	91.5	87.7	102.9	110.6	119.1	177.3	229.7	193.5	161.1	138.2	133.4
87.5°	44.8	57.2	58.1	66.7	82.9	142.0	193.5	162.0	134.4	111.5	109.6
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)