

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: P573164

Luminaire Tested: **ARCH-S-PA2-40-740-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-740-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6676 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

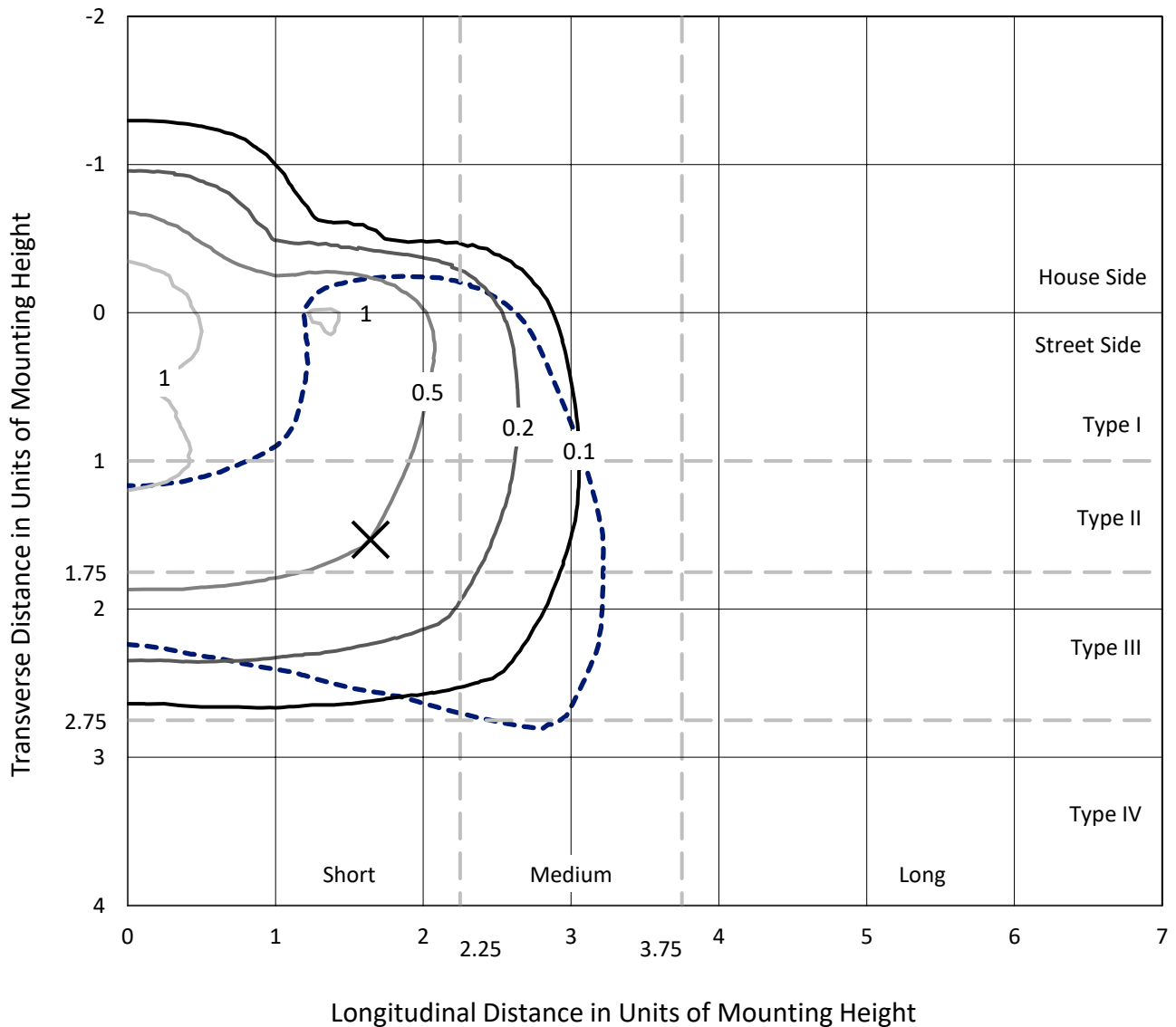
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

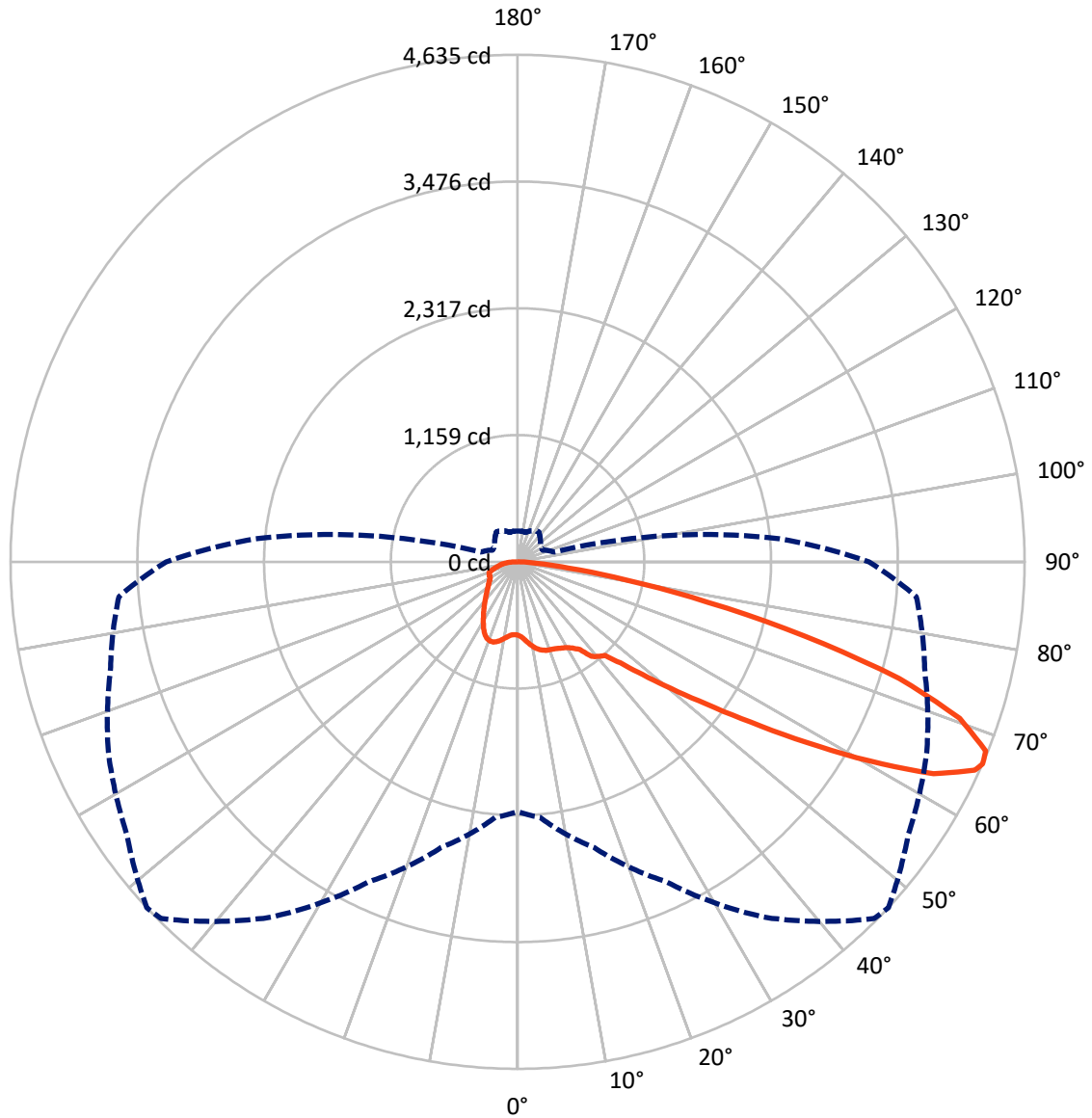
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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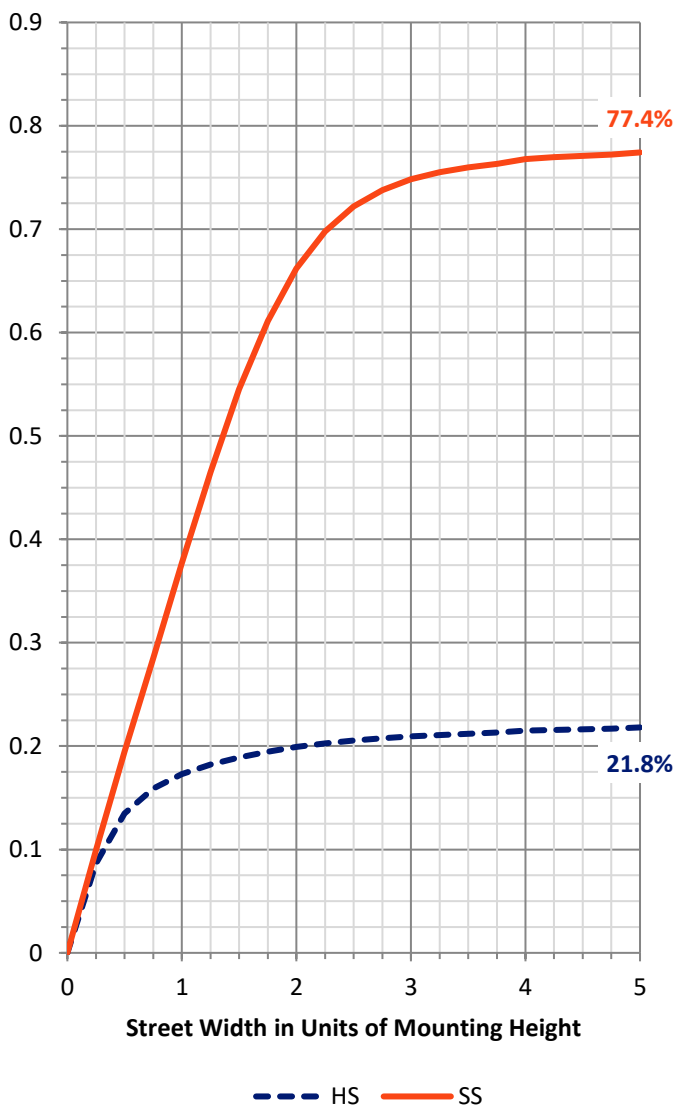
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.3	0.0	1484.3
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	5191.7	0.0	5191.7
	% Fixture	77.8	0.0	77.8
Total	Lumens	6676.0	0.0	6676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.0
10°-20°	224.1	3.4
20°-30°	373.7	5.6
30°-40°	542.7	8.1
40°-50°	830.0	12.4
50°-60°	1568.9	23.5
60°-70°	2027.2	30.4
70°-80°	911.2	13.6
80°-90°	130.0	1.9
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°	6676.0	100.0
0°-180°	6676.0	100.0

Coefficient of Utilization



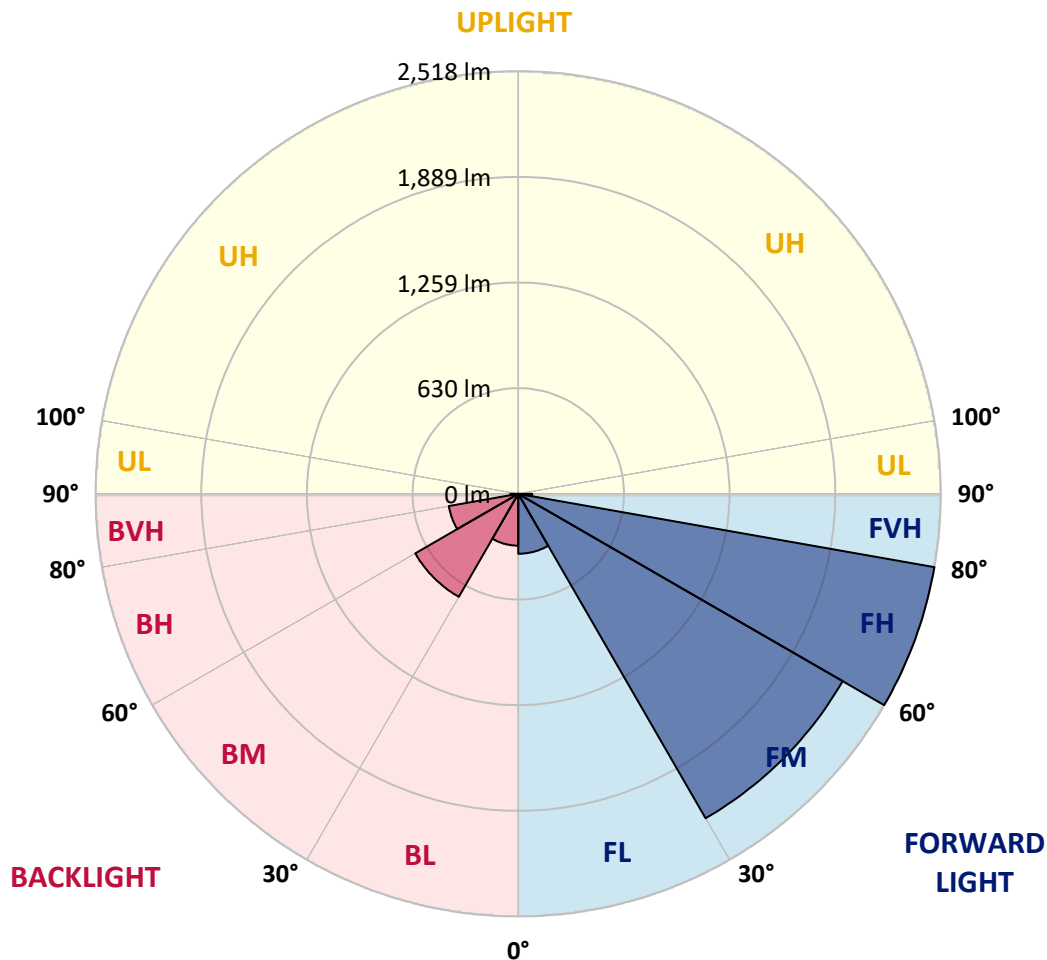
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.2	5.4			
FM (30°-60°)	2232.6	33.4			
FH (60°-80°)	2518.4	37.7			G2/5000
FVH (80°-90°)	83.5	1.3			G1/100
BL (0°-30°)	308.9	4.6	B1/500		
BM (30°-60°)	709.0	10.6	B1/1000		
BH (60°-80°)	420.0	6.3	B1/500		G1/500
BVH (80°-90°)	46.5	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
2.5°	709.2	703.8	700.2	698.3	694.7	687.5	687.5	685.7	678.4	674.8	673.0
5°	765.5	761.8	752.8	745.5	734.6	720.1	718.3	707.4	692.9	682.0	674.8
7.5°	819.9	816.3	807.2	796.3	778.2	760.0	754.6	740.1	716.5	700.2	687.5
10°	867.0	861.6	850.7	836.2	816.3	796.3	790.9	774.5	751.0	727.4	705.6
12.5°	897.9	894.3	881.6	863.4	841.6	821.7	818.1	803.6	780.0	754.6	727.4
15°	912.4	910.6	896.1	877.9	856.2	839.8	838.0	825.3	805.4	780.0	749.1
17.5°	908.8	906.9	894.3	876.1	859.8	850.7	850.7	841.6	825.3	803.6	770.9
20°	890.6	890.6	879.7	867.0	858.0	856.2	856.2	854.3	843.5	825.3	792.7
22.5°	872.5	872.5	865.2	856.2	854.3	861.6	863.4	867.0	863.4	848.9	819.9
25°	876.1	874.3	865.2	854.3	856.2	872.5	876.1	885.2	883.4	872.5	847.1
27.5°	916.0	914.2	890.6	868.9	867.0	887.0	890.6	903.3	903.3	894.3	877.9
30°	1015.8	1019.4	975.9	921.5	894.3	906.9	910.6	925.1	932.3	936.0	923.3
32.5°	1168.1	1162.7	1097.4	1008.5	948.7	936.0	941.4	954.1	979.5	986.8	955.9
35°	1322.3	1326.0	1262.5	1150.0	1035.7	988.6	984.9	1003.1	1041.2	1008.5	954.1
37.5°	1465.6	1460.2	1385.8	1264.3	1150.0	1095.6	1097.4	1090.2	1057.5	992.2	966.8
40°	1621.6	1607.1	1545.4	1389.4	1244.3	1153.6	1137.3	1075.6	1048.4	1021.2	1017.6
42.5°	1775.8	1777.6	1726.8	1572.6	1356.8	1195.4	1170.0	1106.5	1124.6	1119.2	1115.5
45°	1969.9	1969.9	1919.1	1775.8	1534.6	1351.4	1316.9	1240.7	1269.7	1291.5	1335.0
47.5°	2147.7	2136.8	2122.3	2000.7	1766.7	1554.5	1540.0	1452.9	1529.1	1596.2	1685.1
50°	2336.3	2321.8	2312.7	2238.3	2071.5	1862.9	1819.3	1728.6	1895.5	2020.7	2185.7
52.5°	2630.1	2604.8	2557.6	2515.9	2450.6	2209.3	2154.9	2087.8	2303.6	2461.5	2798.8
55°	2895.0	2873.2	2827.9	2858.7	2849.6	2630.1	2583.0	2519.5	2753.5	2945.8	3332.1
57.5°	2992.9	2994.7	3056.4	3221.5	3308.5	3181.6	3114.5	3051.0	3248.7	3337.6	3685.8
60°	3038.3	3032.8	3192.5	3460.9	3743.9	3782.0	3696.7	3566.1	3640.5	3645.9	3985.1
62.5°	2940.3	2954.8	3174.3	3560.7	4005.1	4279.0	4266.3	4037.7	3968.8	3892.6	4064.9
65°	2568.5	2588.4	2911.3	3382.9	4046.8	4580.1	4592.8	4326.1	4133.9	3921.6	3838.2
66°	2285.5	2345.4	2704.5	3228.7	3970.6	4610.9	4634.5	4357.0	4126.6	3852.7	3658.6
67.5°	1917.3	1913.7	2314.5	2889.5	3758.4	4583.7	4614.5	4313.4	4028.7	3649.6	3299.5
70°	1173.6	1209.9	1554.5	2156.7	3110.8	4244.5	4286.2	4006.9	3606.0	3090.9	2439.7
72.5°	602.2	662.1	888.8	1402.1	2258.3	3508.1	3649.6	3364.8	2947.6	2236.5	1489.2
75°	319.2	315.6	419.0	760.0	1442.0	2632.0	2706.3	2523.1	2037.0	1333.2	758.2
77.5°	170.5	179.6	219.5	390.0	792.7	1681.5	1775.8	1627.1	1160.9	682.0	362.8
80°	116.1	121.5	148.7	219.5	429.9	912.4	999.5	867.0	607.7	322.9	170.5
82.5°	74.4	78.0	101.6	136.0	257.6	442.6	466.2	444.4	297.5	183.2	103.4
85°	45.3	47.2	61.7	87.1	161.4	179.6	186.8	188.6	166.9	119.7	56.2
87.5°	21.8	23.6	34.5	43.5	76.2	65.3	59.9	61.7	92.5	70.7	25.4
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°	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
2.5°	671.1	669.3	665.7	663.9	665.7	665.7	665.7	667.5	671.1	671.1	673.0
5°	671.1	667.5	663.9	663.9	667.5	671.1	674.8	682.0	685.7	687.5	687.5
7.5°	680.2	676.6	673.0	673.0	678.4	685.7	692.9	702.0	711.0	718.3	718.3
10°	698.3	692.9	689.3	691.1	700.2	709.2	718.3	729.2	738.3	747.3	747.3
12.5°	718.3	712.9	707.4	711.0	723.7	734.6	743.7	749.1	758.2	765.5	765.5
15°	738.3	729.2	727.4	734.6	747.3	754.6	758.2	758.2	761.8	769.1	769.1
17.5°	760.0	751.0	749.1	756.4	767.3	767.3	760.0	754.6	752.8	758.2	760.0
20°	781.8	772.7	772.7	778.2	776.3	763.6	751.0	741.9	734.6	740.1	741.9
22.5°	809.0	799.9	796.3	789.0	772.7	747.3	727.4	716.5	711.0	714.7	718.3
25°	836.2	828.9	819.9	794.5	756.4	716.5	691.1	682.0	683.8	691.1	694.7
27.5°	870.7	867.0	845.3	790.9	727.4	673.0	647.6	645.7	653.0	663.9	669.3
30°	912.4	906.9	868.9	780.0	687.5	622.2	604.0	607.7	618.5	627.6	633.0
32.5°	941.4	937.8	879.7	754.6	638.5	576.8	562.3	562.3	567.7	580.4	585.9
35°	950.5	965.0	887.0	716.5	580.4	536.9	522.4	513.3	513.3	524.2	527.8
37.5°	981.3	1014.0	890.6	665.7	533.3	500.6	482.5	466.2	460.7	458.9	458.9
40°	1052.1	1090.2	888.8	600.4	487.9	464.4	442.6	424.5	409.9	390.0	391.8
42.5°	1175.4	1204.4	883.4	531.5	448.0	431.7	409.9	388.2	364.6	342.8	341.0
45°	1413.0	1369.5	868.9	471.6	411.8	402.7	382.7	357.3	328.3	308.4	308.4
47.5°	1788.5	1668.8	859.8	415.4	379.1	377.3	359.2	331.9	302.9	288.4	286.6
50°	2303.6	2082.4	874.3	375.5	350.1	355.5	341.0	315.6	292.0	279.3	277.5
52.5°	2895.0	2526.8	890.6	350.1	328.3	339.2	331.9	308.4	284.8	273.9	272.1
55°	3352.1	2887.7	867.0	326.5	306.5	322.9	322.9	301.1	281.2	270.3	270.3
57.5°	3673.1	3032.8	785.4	304.7	288.4	308.4	313.8	297.5	279.3	275.7	275.7
60°	3811.0	3025.6	642.1	284.8	275.7	293.9	308.4	293.9	283.0	292.0	293.9
62.5°	3736.6	2867.8	498.8	270.3	266.6	290.2	313.8	308.4	295.7	302.9	306.5
65°	3401.1	2590.2	375.5	257.6	255.8	292.0	328.3	317.4	286.6	288.4	290.2
66°	3212.4	2403.4	344.6	253.9	252.1	293.9	335.6	313.8	279.3	283.0	281.2
67.5°	2809.7	2109.6	302.9	246.7	244.9	293.9	344.6	306.5	270.3	275.7	270.3
70°	2060.6	1492.8	259.4	237.6	234.0	288.4	342.8	292.0	250.3	246.7	237.6
72.5°	1195.4	903.3	230.4	226.7	217.7	253.9	321.1	268.5	228.6	217.7	208.6
75°	587.7	458.9	205.0	214.0	190.5	223.1	290.2	248.5	210.4	195.9	190.5
77.5°	270.3	232.2	185.0	195.9	168.7	192.3	264.8	226.7	186.8	165.1	159.6
80°	146.9	145.1	156.0	163.3	141.5	168.7	234.0	197.7	157.8	134.2	127.0
82.5°	90.7	92.5	114.3	125.2	110.6	146.9	206.8	165.1	119.7	94.3	96.1
85°	47.2	52.6	76.2	83.4	72.6	108.8	156.0	110.6	67.1	49.0	49.0
87.5°	16.3	21.8	38.1	45.3	39.9	65.3	98.0	52.6	14.5	0.0	0.0
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)