

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: P348943

Luminaire Tested: **ARCH-N-PA1-40-750-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-750-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5538 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

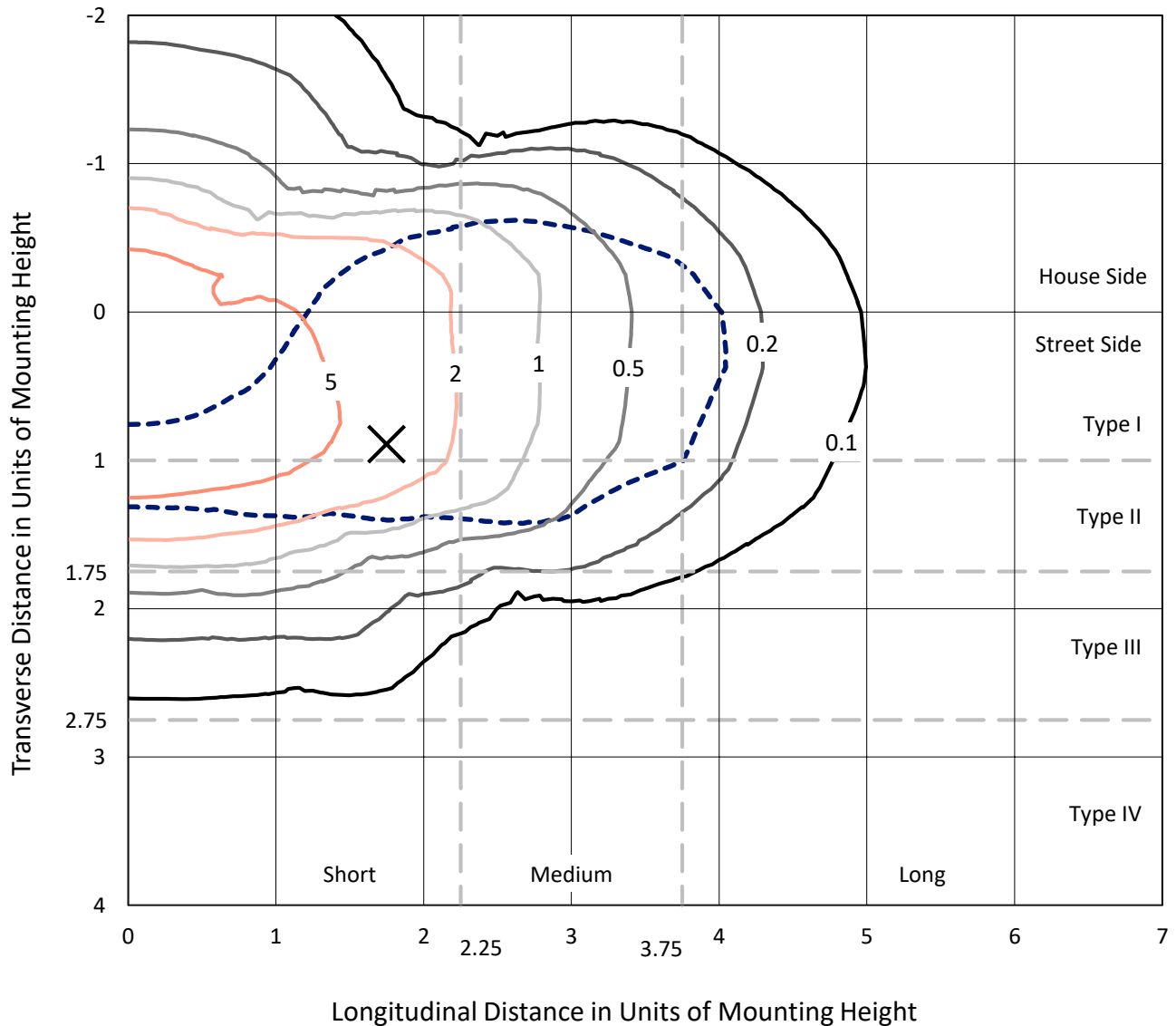
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

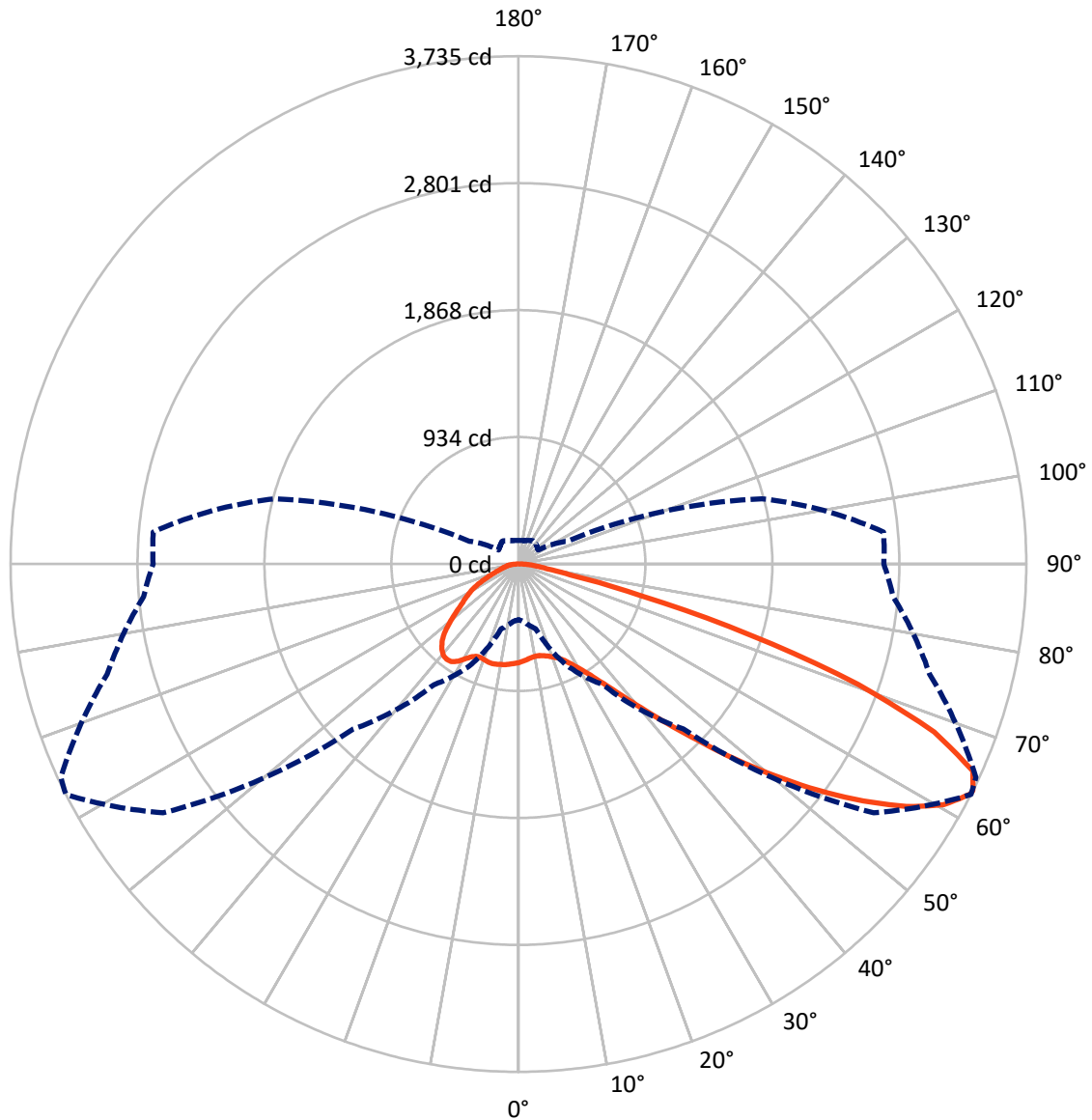
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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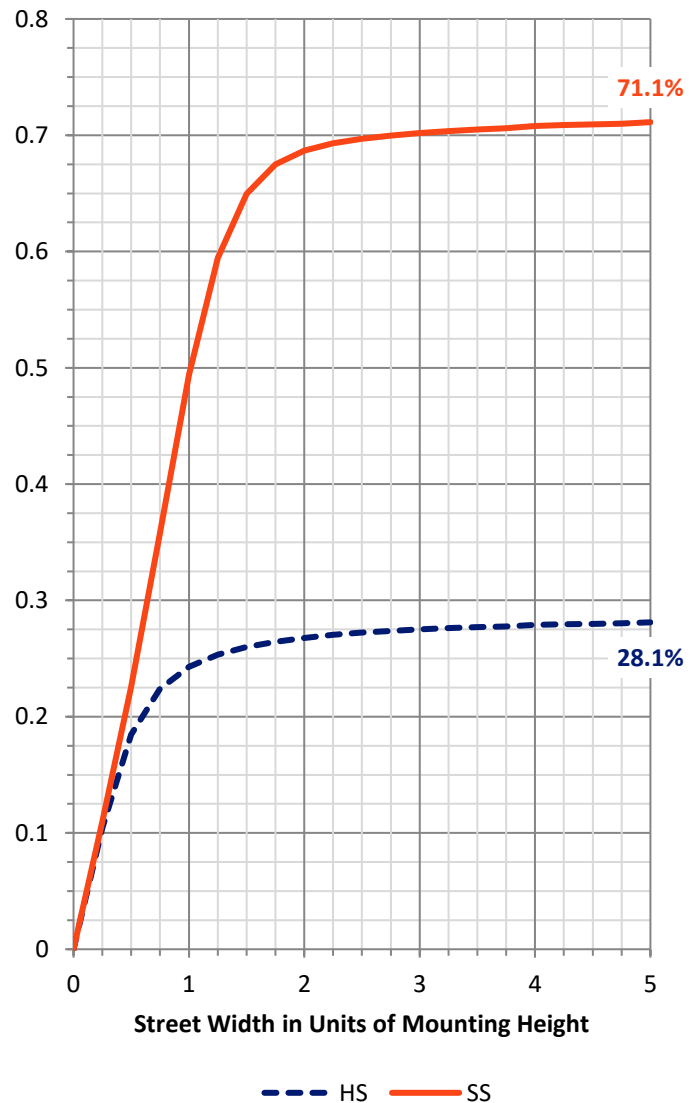
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1581.0	0.0	1581.0
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	3957.0	0.0	3957.0
	% Fixture	71.5	0.0	71.5
Total	Lumens	5538.0	0.0	5538.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.2
10°-20°	203.0	3.7
20°-30°	356.5	6.4
30°-40°	600.9	10.9
40°-50°	1052.7	19.0
50°-60°	1360.5	24.6
60°-70°	1177.7	21.3
70°-80°	611.4	11.0
80°-90°	106.5	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°	5538.0	100.0
0°-180°	5538.0	100.0



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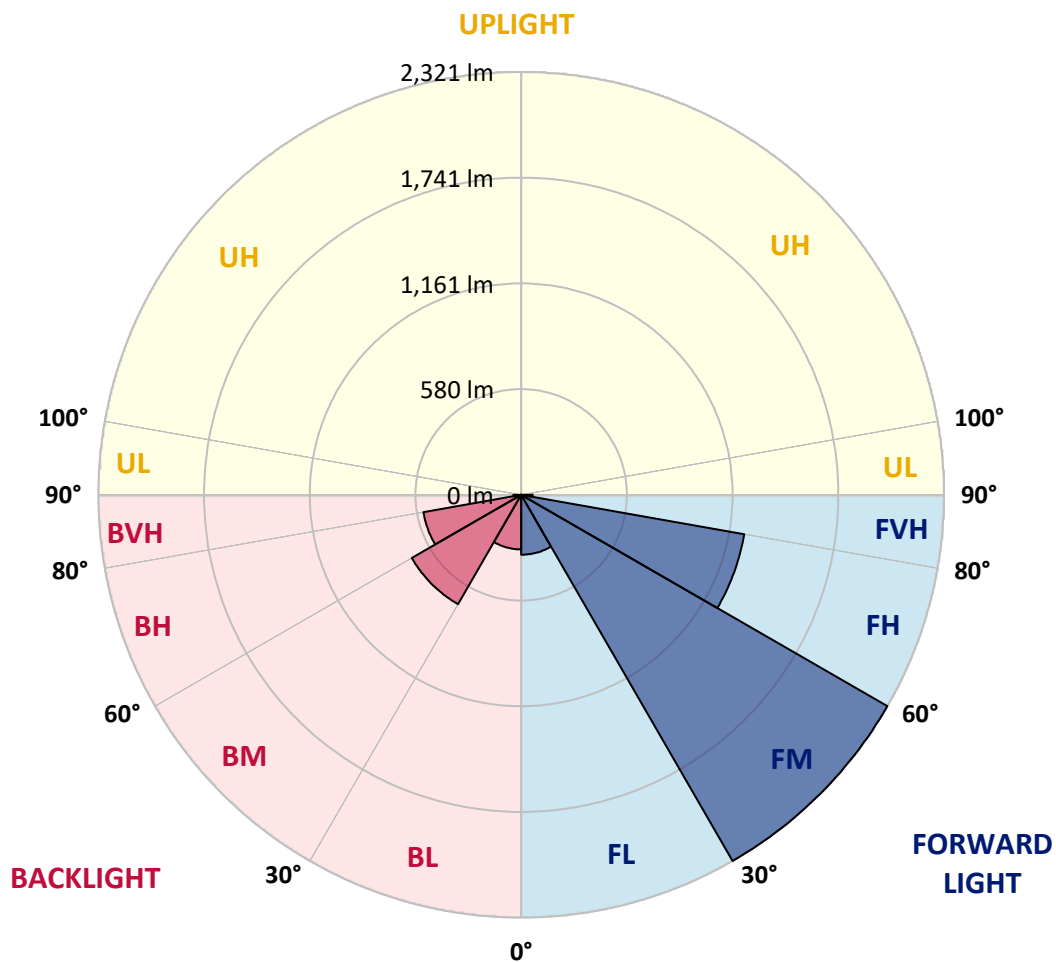
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.8	5.9			
FM	(30°-60°)	2321.1	41.9			
FH	(60°-80°)	1243.7	22.5			G1/1800
FVH	(80°-90°)	63.5	1.1			G1/100
BL	(0°-30°)	299.5	5.4	B1/500		
BM	(30°-60°)	693.1	12.5	B1/1000		
BH	(60°-80°)	545.4	9.8	B2/1000		G2/1000
BVH	(80°-90°)	43.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	708.0	705.9	709.5	711.1	710.6	713.7	713.7	714.2	714.2	716.8	719.4
5°	687.3	686.2	689.8	692.4	694.5	699.2	702.3	703.8	705.4	709.0	715.2
7.5°	667.6	666.0	671.2	673.3	676.4	683.1	690.4	694.5	696.6	704.4	713.2
10°	651.5	651.0	655.1	657.2	660.8	670.7	681.0	689.8	691.4	701.8	710.1
12.5°	643.7	642.7	647.3	649.9	656.2	668.1	680.0	690.9	693.5	705.4	712.6
15°	649.9	651.0	655.1	655.6	662.9	675.3	688.8	699.7	702.3	714.2	719.4
17.5°	679.5	679.0	681.5	680.5	683.1	689.3	703.8	712.6	715.8	724.6	728.7
20°	732.9	731.3	733.4	726.6	715.2	712.1	720.9	730.8	731.8	737.0	734.4
22.5°	814.2	815.8	811.1	794.0	766.5	753.6	747.9	751.0	754.6	754.1	746.3
25°	920.5	925.7	916.9	886.8	840.7	810.6	789.9	785.2	787.8	780.5	768.6
27.5°	1059.9	1064.0	1044.9	998.2	936.0	891.5	850.0	833.9	833.9	818.4	796.6
30°	1213.3	1215.9	1185.3	1126.2	1054.2	987.9	926.7	895.6	893.0	862.4	828.2
32.5°	1399.9	1392.6	1356.4	1283.3	1192.6	1101.4	1022.6	975.4	970.2	924.1	880.6
35°	1640.9	1640.9	1565.8	1482.3	1371.9	1255.8	1152.2	1079.1	1073.9	1021.5	965.1
37.5°	1902.6	1901.6	1833.7	1718.6	1586.5	1444.5	1306.1	1214.9	1202.9	1147.0	1083.7
40°	2163.3	2154.5	2099.6	1990.2	1849.3	1687.0	1496.3	1390.1	1384.3	1304.5	1225.2
42.5°	2354.1	2345.8	2319.9	2246.8	2154.0	2036.9	1743.5	1600.0	1591.7	1491.1	1394.2
45°	2459.3	2447.4	2443.7	2444.8	2455.1	2454.6	2048.8	1848.2	1819.2	1702.6	1573.5
47.5°	2435.4	2407.5	2444.8	2540.7	2701.8	2807.6	2404.3	2143.1	2089.2	1922.3	1764.8
50°	2243.2	2229.7	2309.5	2504.9	2836.1	3084.3	2795.7	2449.4	2373.2	2130.2	1945.7
52.5°	1905.7	1931.7	2030.1	2307.9	2811.7	3251.7	3151.2	2767.7	2661.9	2328.2	2102.7
55°	1517.0	1549.7	1688.6	1983.0	2586.3	3253.8	3407.7	3076.0	2981.7	2532.9	2263.4
57.5°	1104.0	1150.1	1323.7	1593.7	2190.8	3031.5	3534.2	3364.7	3256.9	2734.5	2420.4
60°	693.5	726.1	915.3	1228.3	1674.6	2540.7	3502.6	3595.9	3506.7	2924.7	2599.7
62.5°	446.8	462.3	544.2	876.9	1167.7	1863.2	3268.8	3728.6	3690.2	3098.3	2735.0
63°	409.4	422.9	492.9	810.6	1082.7	1716.6	3190.1	3735.3	3712.5	3131.0	2766.6
65°	292.8	307.3	343.6	557.2	799.2	1151.6	2733.5	3672.6	3698.0	3185.4	2809.6
67.5°	231.2	235.8	252.4	338.4	567.0	654.1	1839.4	3297.9	3409.3	3127.4	2745.9
70°	206.8	210.4	229.1	259.7	429.1	424.0	959.4	2651.6	2882.2	2929.4	2585.2
72.5°	180.4	183.0	205.8	244.6	327.6	323.9	417.2	1782.9	2063.3	2566.6	2362.9
75°	149.3	151.9	171.0	217.2	277.3	256.0	261.2	931.9	1182.7	2012.0	2072.1
77.5°	122.8	124.4	140.5	174.7	244.1	197.5	202.1	391.8	574.8	1371.4	1636.2
80°	89.1	89.7	104.7	132.7	186.6	178.3	150.3	213.5	260.7	751.5	1029.3
82.5°	62.2	62.7	78.3	92.8	128.5	177.8	109.4	143.0	156.5	346.2	458.2
85°	43.5	42.5	53.4	61.2	81.4	107.8	83.4	91.7	96.9	149.8	123.4
87.5°	19.2	18.7	30.1	32.7	40.9	49.8	66.3	48.2	51.3	72.6	38.9
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°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	719.9	722.0	725.1	729.8	733.4	734.9	738.0	738.6	743.2	739.1	739.6
5°	718.9	721.5	728.2	736.5	742.2	746.3	754.1	756.7	761.4	759.3	758.8
7.5°	717.3	722.0	731.8	743.7	752.6	759.3	766.5	771.2	775.9	774.8	773.8
10°	715.2	720.9	734.9	746.9	759.3	766.5	771.7	772.3	773.8	772.8	770.2
12.5°	716.8	723.0	739.1	751.0	764.0	769.1	767.6	759.8	753.1	747.4	746.3
15°	722.0	729.2	744.3	755.1	765.5	762.4	753.1	736.0	723.5	716.3	716.8
17.5°	727.2	733.4	744.8	753.6	758.8	749.4	734.9	720.4	714.7	709.0	708.0
20°	731.8	732.9	740.1	747.9	747.4	740.1	726.6	709.0	697.6	688.3	688.8
22.5°	739.1	734.9	735.5	740.1	745.8	739.1	707.5	676.9	659.8	648.9	648.4
25°	755.7	746.9	738.6	741.2	762.9	719.9	666.5	626.6	611.6	601.7	602.8
27.5°	778.5	766.5	750.0	764.0	775.9	682.1	608.0	567.0	556.6	546.3	548.9
30°	803.3	786.2	766.0	813.2	761.4	621.9	535.4	498.1	488.7	478.9	481.0
32.5°	847.9	822.5	796.1	872.3	727.7	548.9	459.2	425.5	419.3	413.1	413.6
35°	922.0	892.0	863.5	917.4	684.1	472.7	390.8	366.9	361.8	354.5	354.5
37.5°	1031.4	984.2	969.2	941.2	624.5	401.7	340.5	324.4	313.6	303.7	303.7
40°	1158.4	1102.4	1090.5	948.5	546.8	342.6	305.3	291.3	276.8	262.3	263.3
42.5°	1312.8	1237.2	1209.7	938.6	452.5	304.8	280.4	264.3	250.3	237.9	235.8
45°	1487.0	1391.1	1321.6	910.1	366.9	281.4	264.3	245.2	227.5	216.6	214.6
47.5°	1664.7	1558.0	1420.6	853.1	306.8	264.8	253.4	226.5	214.1	206.8	205.8
50°	1834.7	1723.3	1502.5	763.4	272.1	252.9	237.4	217.7	207.3	201.1	200.6
52.5°	1985.6	1880.4	1571.5	670.7	248.8	243.1	230.1	213.5	202.7	196.9	195.9
55°	2129.1	2039.5	1639.9	587.7	228.6	226.5	226.5	209.4	197.5	192.3	191.2
57.5°	2286.7	2220.3	1708.8	527.1	210.4	214.6	221.8	204.7	191.8	187.1	186.6
60°	2468.6	2429.7	1781.4	473.7	194.4	201.6	215.1	198.5	185.0	181.4	180.4
62.5°	2654.7	2655.7	1844.1	409.4	180.9	191.8	207.3	192.8	178.8	176.2	175.7
63°	2687.3	2696.7	1852.9	395.5	177.8	189.7	205.2	190.7	177.3	174.7	174.1
65°	2767.7	2808.6	1860.1	336.4	166.4	181.9	197.5	184.0	170.5	170.0	169.0
67.5°	2748.5	2815.3	1815.0	263.8	153.4	171.0	186.6	174.1	162.2	162.2	160.2
70°	2605.4	2649.0	1676.7	203.7	143.6	159.6	173.6	163.8	151.3	152.4	148.2
72.5°	2386.2	2338.5	1379.2	159.1	131.6	146.7	158.6	150.3	139.4	138.4	133.7
75°	2064.9	1907.8	987.9	128.5	117.1	129.6	142.0	135.8	125.9	120.2	119.2
77.5°	1573.5	1354.3	591.9	108.8	104.7	115.1	122.8	118.2	110.4	103.7	104.2
80°	937.1	781.1	266.9	92.3	90.7	98.5	104.7	101.1	95.9	87.6	85.5
82.5°	379.4	302.2	119.7	74.6	76.7	82.4	88.1	85.0	80.9	78.8	66.9
85°	98.5	94.8	70.0	56.0	59.1	61.7	69.5	69.5	65.8	53.9	49.8
87.5°	28.0	37.3	38.9	35.2	39.9	40.4	48.2	48.2	49.2	33.2	30.1
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)