

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: P798645

Luminaire Tested: **ARCH1-20-740-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

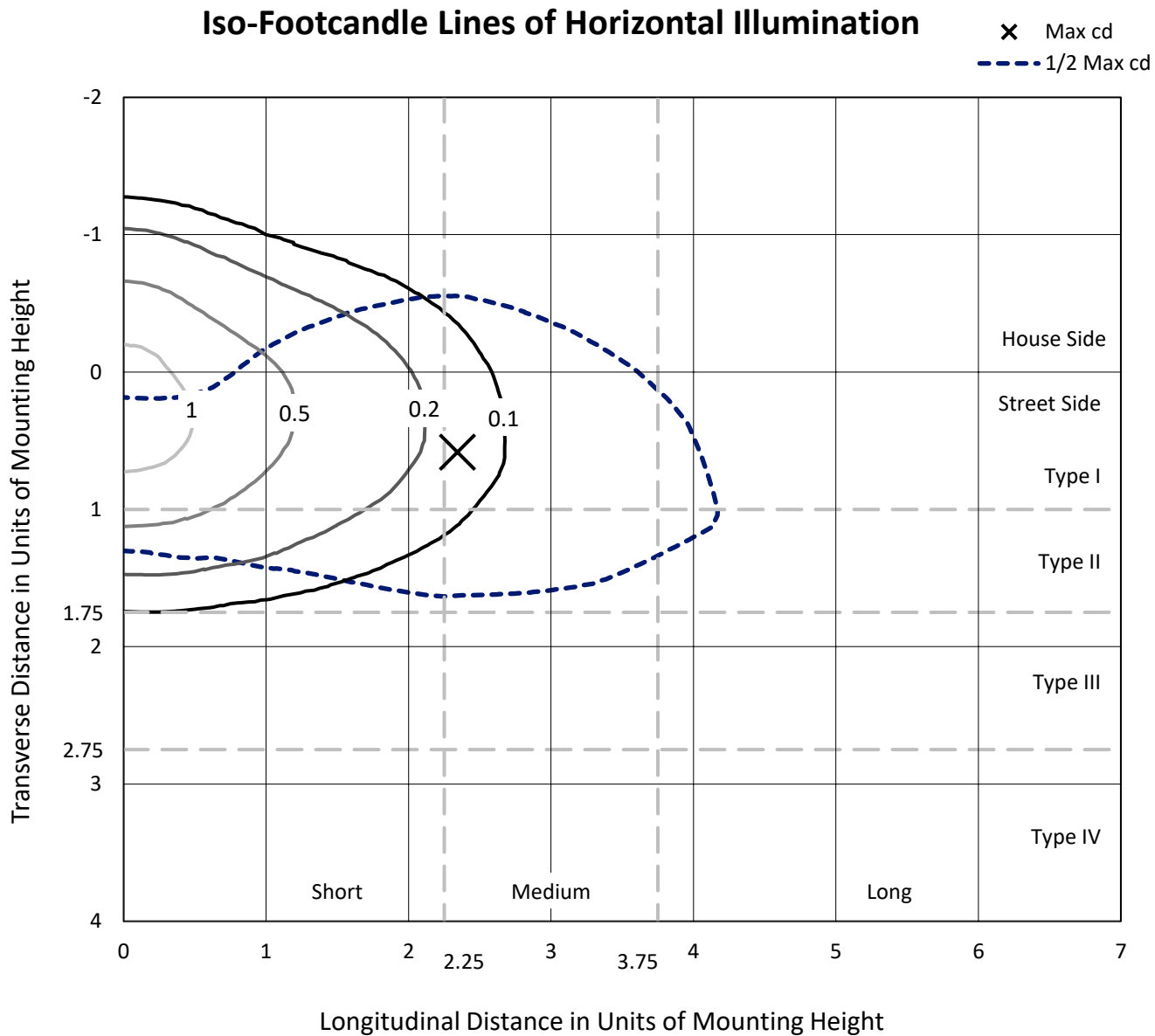
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3613 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.5
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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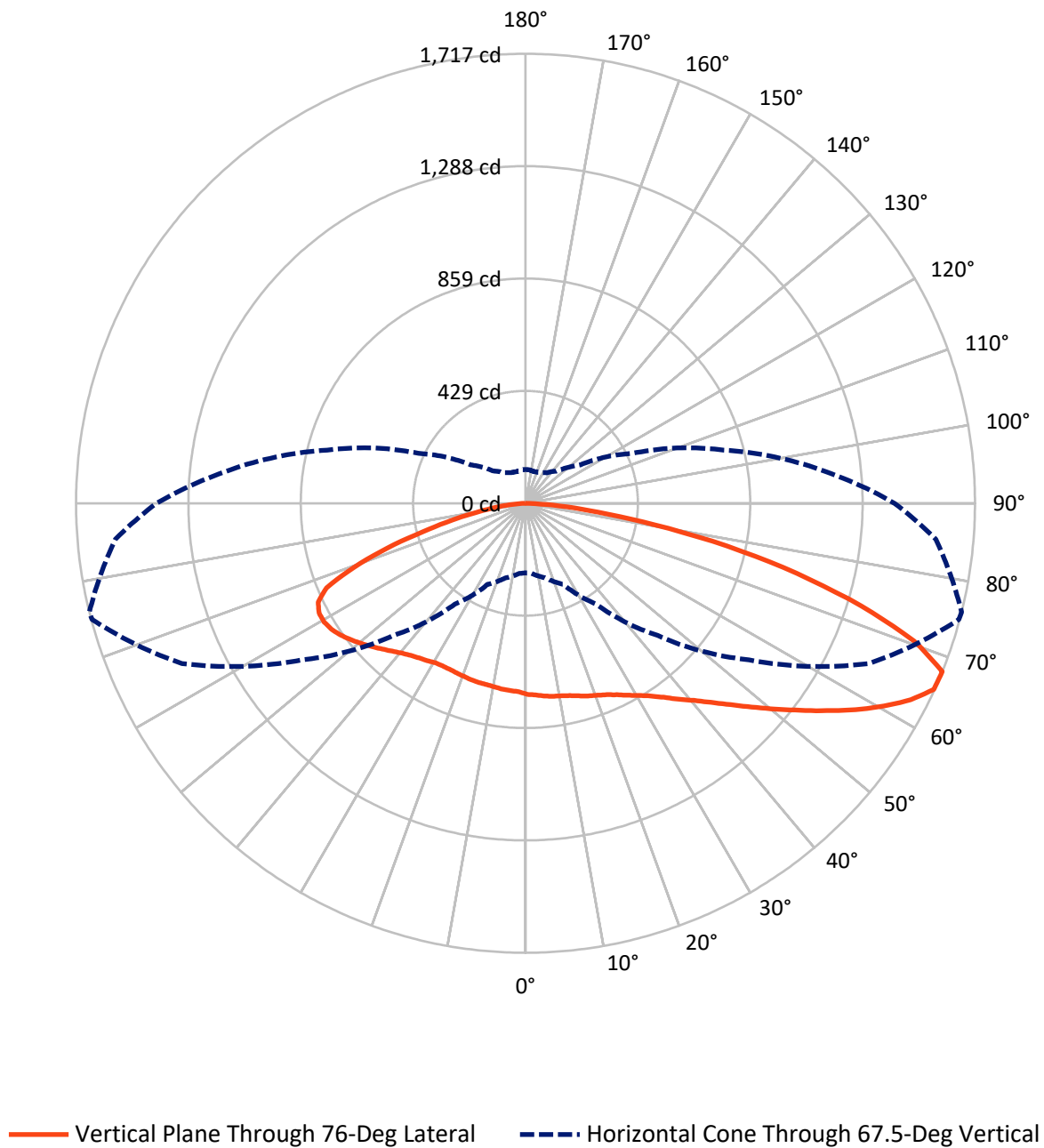


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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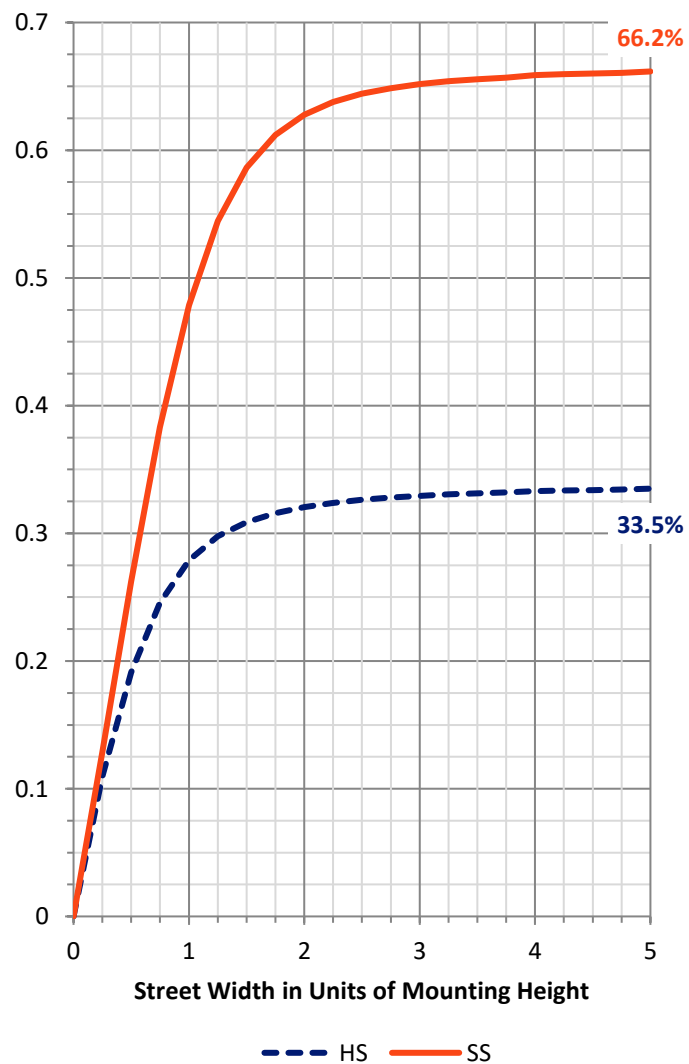
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.8	0.0	1220.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	2392.2	0.0	2392.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	3613.0	0.0	3613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.9
10°-20°	215.1	6.0
20°-30°	365.5	10.1
30°-40°	520.1	14.4
40°-50°	656.9	18.2
50°-60°	711.2	19.7
60°-70°	661.5	18.3
70°-80°	355.3	9.8
80°-90°	56.9	1.6
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°	3613.0	100.0
0°-180°	3613.0	100.0

Coefficient of Utilization



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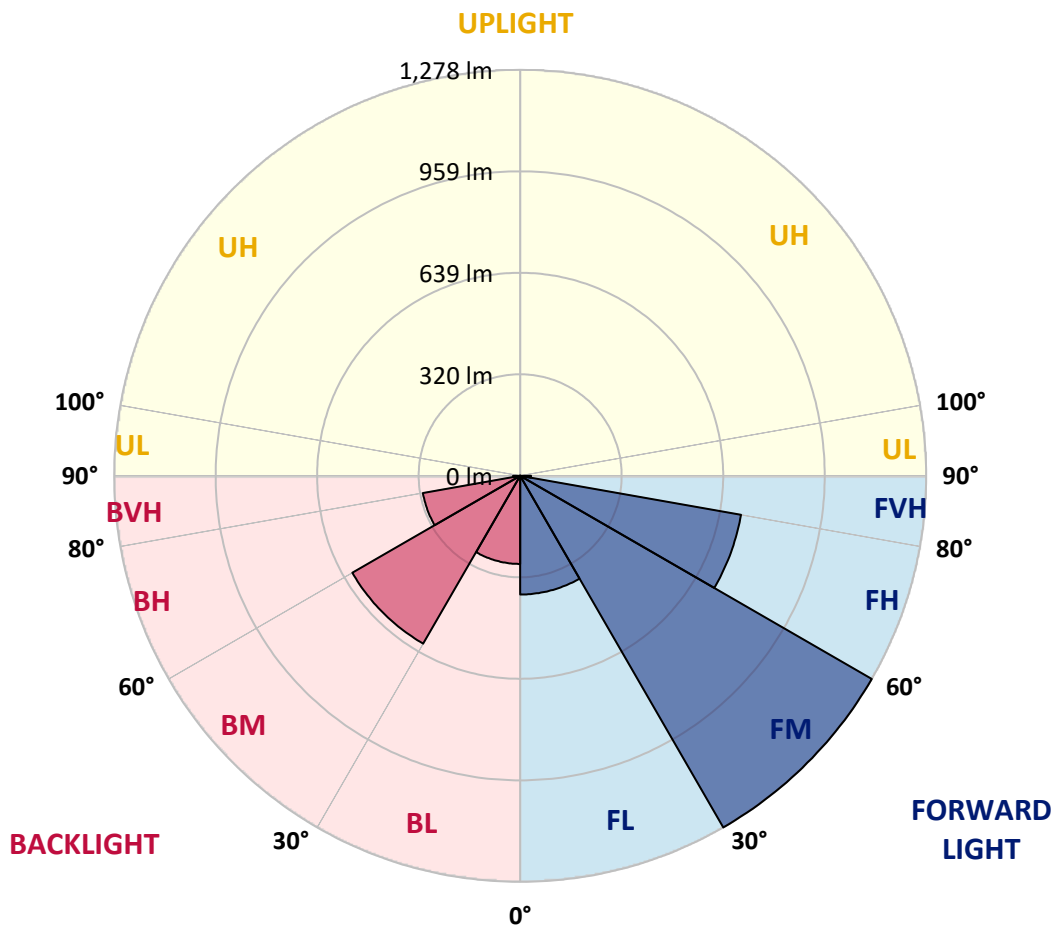
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.6	10.3			
FM	(30°-60°)	1278.1	35.4			
FH	(60°-80°)	706.0	19.5			G1/1800
FVH	(80°-90°)	34.4	1.0			G1/100
BL	(0°-30°)	277.4	7.7	B1/500		
BM	(30°-60°)	610.1	16.9	B1/1000		
BH	(60°-80°)	310.8	8.6	B1/500		G1/500
BVH	(80°-90°)	22.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	752.0	750.6	745.2	745.9	745.9	745.2	737.2	733.8	733.8	733.2	725.8
5°	778.8	776.8	770.7	769.4	766.7	763.4	750.6	743.2	739.9	739.2	729.1
7.5°	810.3	807.6	800.3	796.2	789.5	780.8	764.7	753.3	745.2	744.6	730.5
10°	841.8	839.2	830.4	823.1	813.7	799.6	778.8	762.0	749.3	747.9	731.2
12.5°	879.4	876.7	866.0	856.6	842.5	823.7	796.2	773.4	756.0	754.0	733.2
15°	919.0	915.0	904.2	893.5	876.0	851.9	819.0	788.8	766.7	763.4	739.2
17.5°	951.8	946.5	937.8	927.0	907.6	879.4	841.8	804.3	776.8	774.1	745.2
20°	980.0	976.0	966.6	956.5	935.8	904.9	863.3	819.7	786.2	782.8	749.9
22.5°	1006.9	1001.5	996.1	988.7	965.9	931.7	888.1	838.5	798.2	794.2	756.0
25°	1037.7	1031.7	1029.7	1025.6	998.8	963.9	918.3	862.0	815.0	810.3	766.7
27.5°	1075.9	1069.2	1065.2	1065.2	1033.0	996.8	950.5	889.5	834.5	830.4	780.1
30°	1116.2	1108.1	1102.1	1102.1	1065.9	1029.7	982.0	917.0	856.6	851.9	797.6
32.5°	1151.7	1143.7	1137.0	1136.3	1098.8	1062.5	1014.9	947.2	883.4	877.4	819.0
35°	1179.2	1171.9	1165.8	1167.2	1131.6	1096.1	1051.8	987.4	917.0	910.3	847.2
37.5°	1196.0	1193.3	1190.0	1194.7	1161.8	1128.3	1090.0	1026.3	955.2	949.2	882.1
40°	1204.7	1202.7	1216.1	1222.2	1187.3	1157.1	1128.3	1066.6	996.8	990.1	922.3
42.5°	1217.5	1234.3	1239.6	1238.3	1206.1	1179.2	1163.1	1110.2	1045.8	1039.7	970.6
45°	1171.9	1167.8	1197.4	1213.5	1207.4	1193.3	1196.0	1162.5	1102.8	1096.7	1026.3
47.5°	1110.8	1105.5	1122.2	1161.8	1185.3	1198.7	1225.5	1216.8	1168.5	1163.1	1091.4
50°	982.0	989.4	1051.8	1104.8	1151.1	1197.4	1250.3	1275.2	1241.0	1235.6	1161.1
52.5°	839.2	846.5	911.6	1033.7	1109.5	1187.3	1268.5	1333.5	1319.4	1313.4	1235.6
55°	735.2	751.3	825.1	913.6	1050.5	1155.8	1279.2	1393.2	1404.0	1398.6	1316.8
57.5°	631.9	644.0	699.6	778.1	970.0	1100.8	1278.5	1448.9	1492.5	1487.1	1399.3
60°	510.5	525.9	570.2	654.7	862.6	1035.0	1259.7	1492.5	1577.7	1573.7	1479.1
62.5°	427.3	432.0	463.5	536.6	724.5	951.8	1217.5	1516.0	1654.8	1652.2	1550.9
65°	344.1	344.8	373.6	434.7	591.0	848.5	1145.7	1507.3	1713.2	1714.5	1602.5
67.5°	265.6	269.0	295.1	341.4	469.6	714.4	1043.1	1448.2	1713.9	1717.2	1573.0
70°	183.8	186.5	226.1	271.0	362.9	569.5	904.2	1291.9	1573.0	1575.7	1410.0
72.5°	129.5	130.8	173.1	216.7	283.7	429.3	682.2	1068.6	1340.9	1342.9	1186.0
75°	96.6	97.9	122.1	164.3	217.3	297.2	466.2	818.4	1071.2	1071.2	936.4
77.5°	68.4	69.1	79.2	113.4	144.9	200.6	280.4	536.0	786.2	787.5	682.2
80°	46.3	47.0	51.7	76.5	90.6	108.7	152.3	281.1	495.7	497.7	433.3
82.5°	24.1	25.5	28.8	38.9	45.6	60.4	78.5	142.9	274.4	279.7	260.3
85°	9.4	9.4	10.7	12.7	16.8	23.5	36.2	54.3	124.1	128.1	114.7
87.5°	3.4	3.4	4.0	4.0	4.7	5.4	6.0	8.0	14.1	14.1	13.4
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°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	723.1	723.1	719.8	721.1	720.4	719.1	717.7	719.8	717.7	713.0	712.4
5°	724.5	723.1	717.7	717.1	715.1	712.4	709.0	710.4	707.0	703.0	702.3
7.5°	725.1	722.4	715.1	712.4	708.4	703.0	697.6	697.6	692.9	688.9	688.2
10°	723.8	720.4	710.4	705.0	697.6	689.6	682.2	680.2	674.8	670.1	670.1
12.5°	724.5	719.8	707.0	698.3	688.2	678.2	668.8	666.1	661.4	656.7	656.0
15°	728.5	721.8	705.7	694.3	679.5	668.1	658.0	656.0	652.0	648.7	648.7
17.5°	732.5	723.8	703.7	687.6	669.4	656.7	647.3	647.3	644.6	642.6	642.6
20°	734.5	724.5	699.6	678.2	657.4	644.0	635.2	636.6	635.9	635.2	635.2
22.5°	739.2	725.8	696.3	669.4	644.6	630.5	622.5	624.5	623.8	623.8	624.5
25°	746.6	729.1	693.6	661.4	632.6	617.1	608.4	609.7	609.7	609.7	609.7
27.5°	756.6	735.9	692.9	654.0	620.5	603.0	592.3	592.3	589.6	590.3	591.0
30°	772.1	748.6	694.3	647.3	607.7	585.6	572.9	570.8	570.2	571.5	572.2
32.5°	790.9	766.0	702.3	642.6	594.3	566.1	550.0	549.4	547.4	547.4	547.4
35°	814.3	782.8	709.7	641.9	580.9	545.4	527.9	525.9	521.2	519.2	519.2
37.5°	844.5	809.0	718.4	637.2	569.5	525.2	504.4	497.7	492.4	491.7	491.7
40°	881.4	838.5	731.2	631.9	557.4	504.4	476.9	465.5	466.2	468.9	468.9
42.5°	925.0	874.7	747.3	629.2	540.0	483.0	444.7	431.3	436.0	438.7	439.4
45°	976.0	917.6	765.4	625.8	523.9	458.8	410.5	393.8	395.8	396.4	397.1
47.5°	1035.0	965.3	784.2	623.2	505.8	428.6	373.0	350.8	350.2	346.1	347.5
50°	1096.7	1015.6	803.6	618.5	483.6	393.1	333.4	307.2	301.9	295.8	296.5
52.5°	1162.5	1067.2	821.7	611.1	456.1	356.9	295.8	267.6	256.9	250.2	251.5
55°	1234.9	1120.2	839.2	599.7	427.3	320.6	262.3	233.4	220.0	214.7	215.3
57.5°	1301.3	1171.2	851.9	585.6	395.8	287.8	232.8	204.6	195.9	195.2	195.9
60°	1365.7	1214.1	857.3	566.1	363.6	257.6	205.3	183.8	177.8	181.1	181.8
62.5°	1420.1	1241.6	854.6	540.0	330.7	228.7	183.1	167.7	163.7	170.4	171.1
65°	1451.6	1250.3	835.8	502.4	295.1	200.6	162.3	145.6	143.5	147.6	149.6
67.5°	1410.0	1196.0	784.8	450.8	255.6	174.4	142.2	128.8	125.4	128.8	128.8
70°	1249.7	1036.4	664.1	368.9	212.0	148.9	123.4	114.0	111.4	114.0	113.4
72.5°	1041.1	862.0	523.2	287.8	167.0	125.4	107.3	98.6	95.9	93.2	91.9
75°	807.6	654.7	379.7	211.3	126.1	100.6	89.9	81.8	75.1	77.8	76.5
77.5°	591.6	459.5	269.0	146.2	90.6	77.8	70.4	64.4	59.7	65.1	64.4
80°	381.0	297.2	179.8	97.9	62.4	54.3	51.7	48.3	53.0	69.1	70.4
82.5°	232.8	188.5	107.3	63.7	40.9	36.2	33.5	33.5	54.3	59.7	60.4
85°	104.0	99.9	58.4	32.9	22.8	20.8	18.8	24.1	22.1	16.1	16.8
87.5°	16.8	17.4	12.7	11.4	8.7	8.7	6.7	4.7	3.4	2.0	2.0
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)