

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: P799492

Luminaire Tested: **ARCH2-30-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3299 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
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

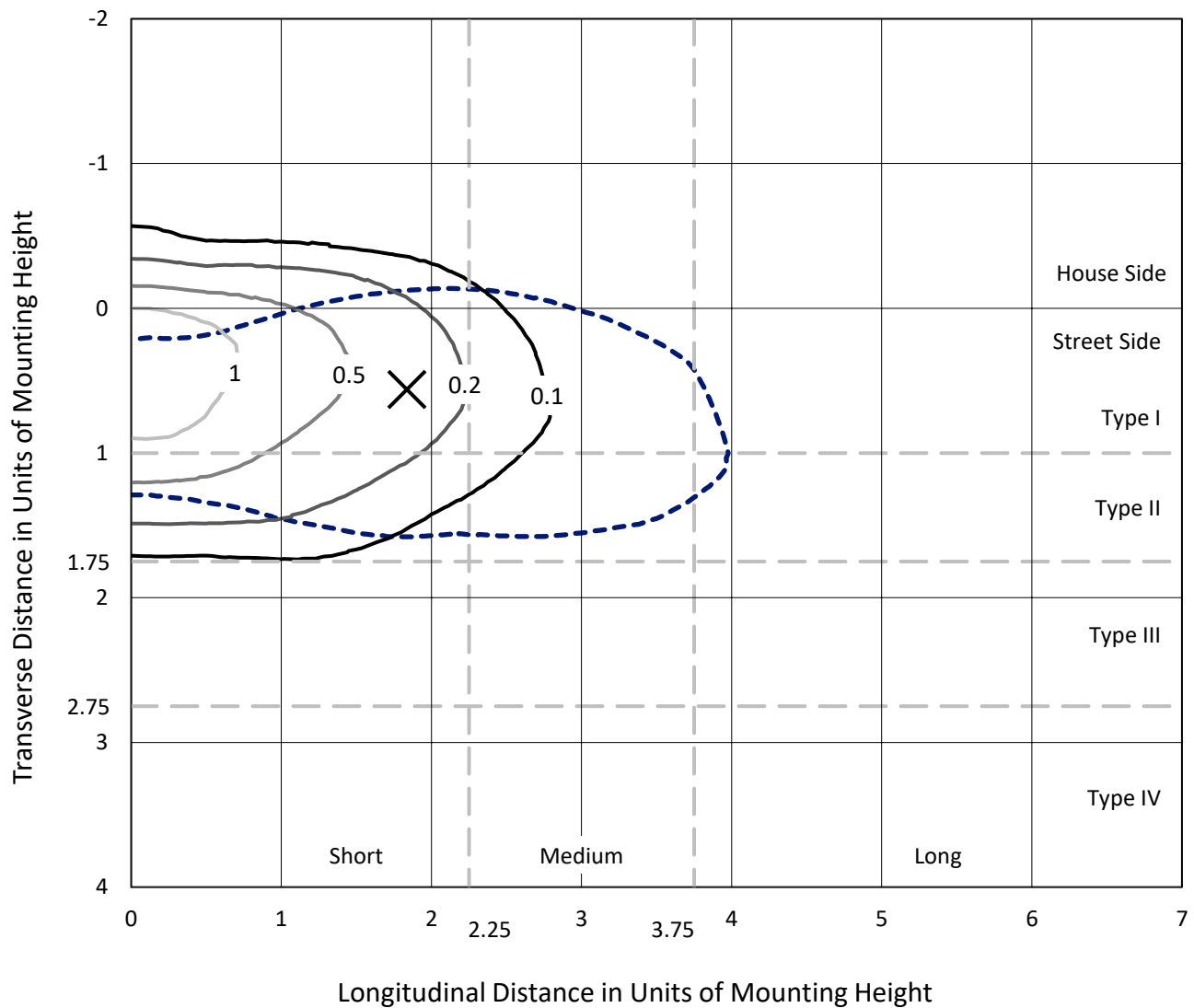


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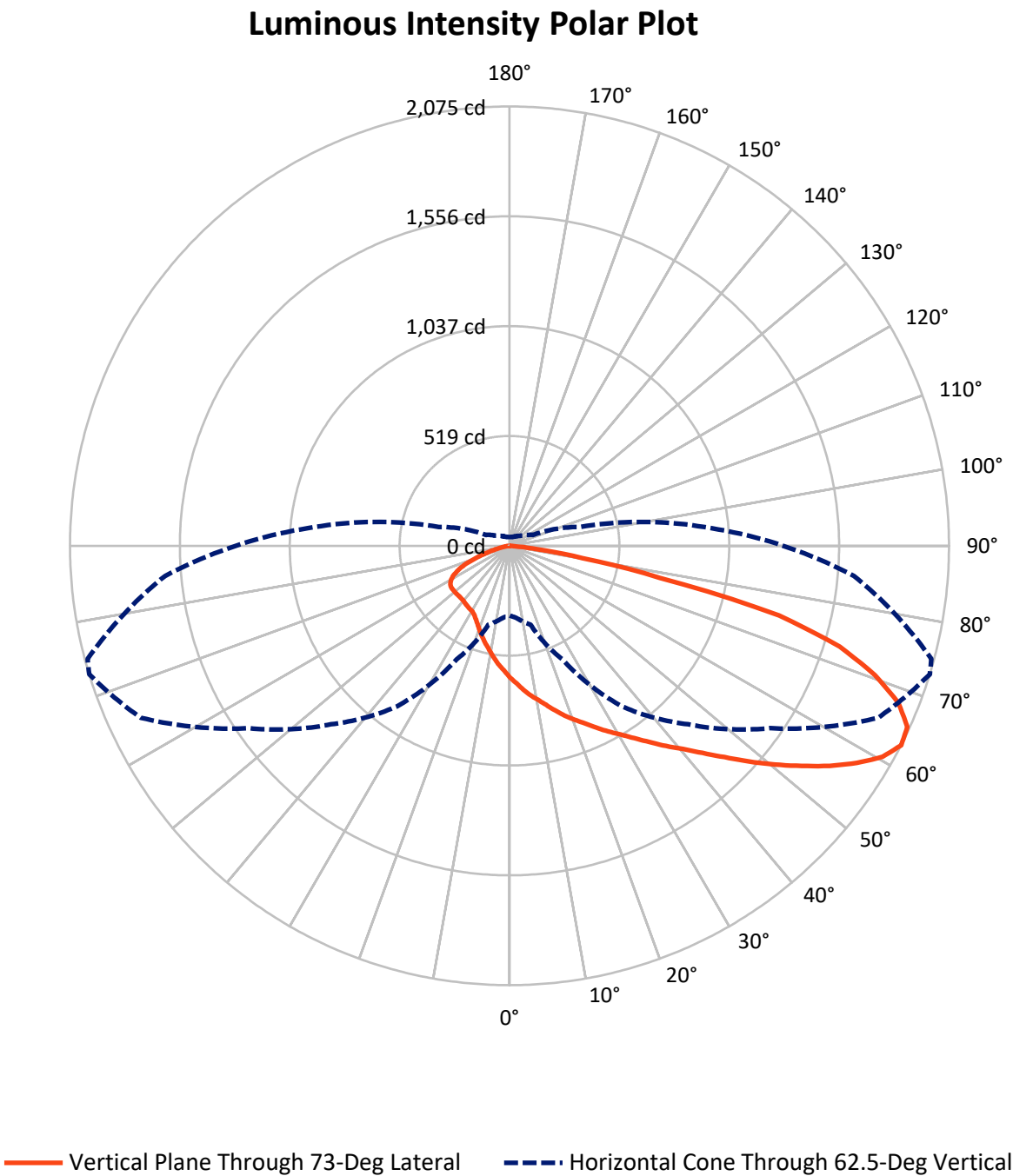
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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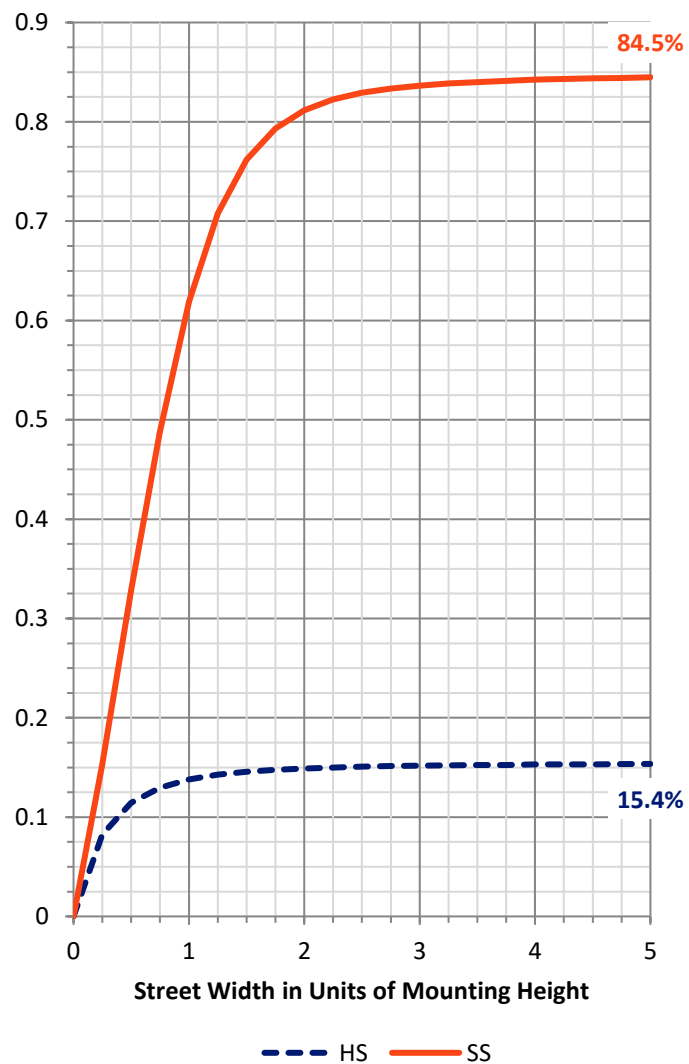
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.4	0.0	511.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2787.6	0.0	2787.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	3299.0	0.0	3299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.8
10°-20°	182.1	5.5
20°-30°	303.1	9.2
30°-40°	457.3	13.9
40°-50°	639.3	19.4
50°-60°	706.1	21.4
60°-70°	615.1	18.6
70°-80°	310.7	9.4
80°-90°	24.9	0.8
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°	3299.0	100.0
0°-180°	3299.0	100.0

Coefficient of Utilization



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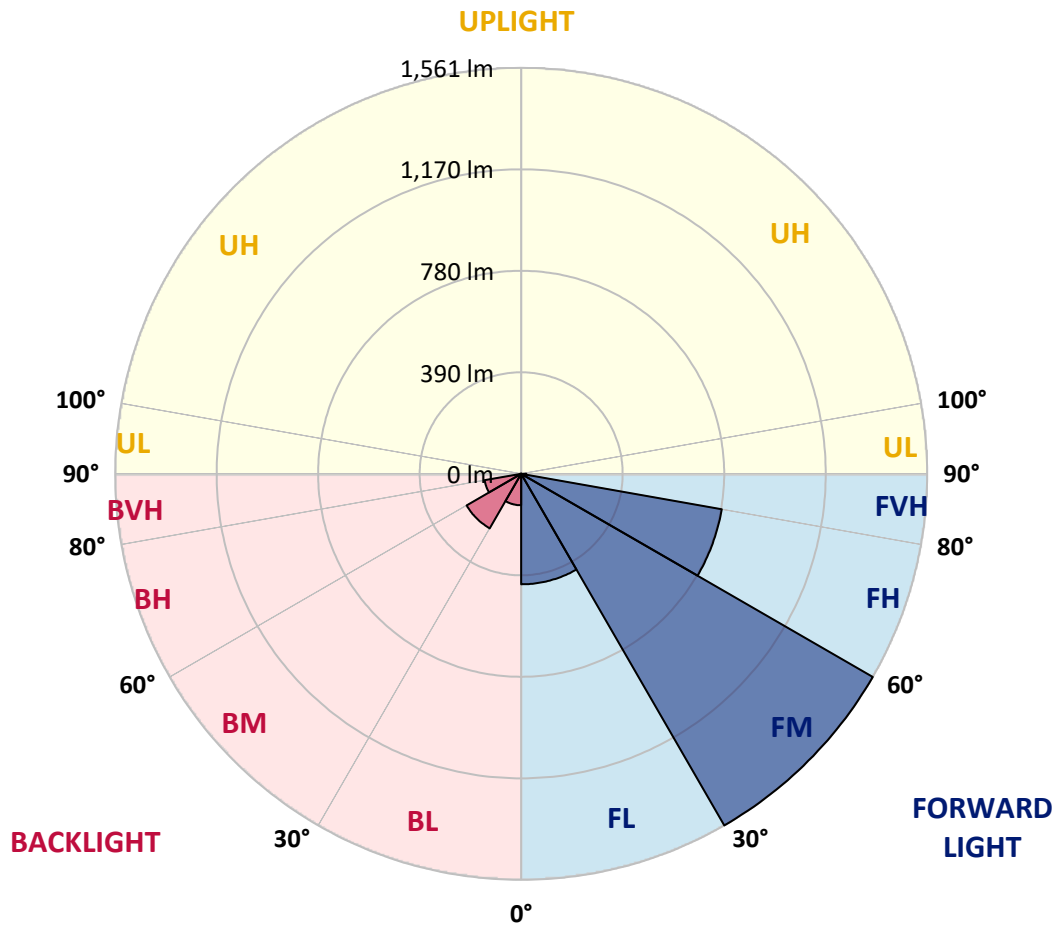
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.7	12.9			
FM	(30°-60°)	1560.5	47.3			
FH	(60°-80°)	783.1	23.7			G1/1800
FVH	(80°-90°)	19.3	0.6			G1/100
BL	(0°-30°)	120.9	3.7	B1/500		
BM	(30°-60°)	242.1	7.3	B1/1000		
BH	(60°-80°)	142.7	4.3	B1/500		G1/500
BVH	(80°-90°)	5.6	0.2			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	710.9	718.8	714.5	717.4	703.0	693.7	682.9	662.1	650.6	649.1	635.5
5°	815.2	823.8	816.6	814.4	789.3	767.7	743.3	706.6	682.2	677.9	647.7
7.5°	919.4	927.3	918.7	912.2	878.4	840.3	804.4	750.5	712.4	705.2	657.7
10°	992.7	999.9	993.4	987.0	951.7	912.9	861.9	791.4	739.7	728.2	664.2
12.5°	1048.1	1052.4	1049.5	1043.8	1010.7	969.0	920.1	837.4	770.6	756.2	674.3
15°	1093.4	1100.5	1097.0	1092.6	1061.0	1019.3	972.6	885.6	806.5	788.6	689.4
17.5°	1123.5	1128.6	1129.3	1129.3	1101.3	1060.3	1015.0	929.5	842.5	819.5	703.7
20°	1137.2	1143.0	1146.6	1152.3	1129.3	1094.1	1048.1	966.8	876.3	850.4	717.4
22.5°	1143.7	1148.7	1158.1	1171.0	1152.3	1122.8	1080.4	1001.3	910.1	882.7	733.2
25°	1148.7	1155.2	1168.8	1193.3	1180.3	1155.2	1118.5	1040.9	950.3	922.3	756.2
27.5°	1162.4	1170.3	1183.2	1212.7	1196.9	1184.6	1158.8	1083.3	992.7	964.0	784.3
30°	1209.8	1216.3	1215.6	1234.2	1214.8	1211.2	1193.3	1124.3	1033.7	1004.9	817.3
32.5°	1296.1	1302.5	1286.7	1279.5	1237.1	1237.8	1230.7	1168.1	1082.6	1053.1	855.4
35°	1388.8	1396.0	1375.1	1362.9	1291.8	1270.9	1274.5	1222.7	1137.2	1107.7	902.9
37.5°	1471.5	1480.1	1462.1	1444.2	1372.3	1324.1	1323.4	1283.8	1199.7	1169.6	955.3
40°	1516.8	1526.8	1537.6	1527.5	1452.1	1398.9	1375.9	1346.4	1261.6	1230.7	1012.1
42.5°	1538.3	1566.4	1585.8	1579.3	1517.5	1463.6	1436.2	1411.8	1337.0	1306.9	1079.7
45°	1477.9	1478.7	1519.6	1554.9	1543.4	1507.4	1502.4	1485.1	1423.3	1394.6	1155.9
47.5°	1402.5	1396.7	1425.5	1488.0	1520.3	1529.7	1559.2	1566.4	1521.8	1493.0	1233.5
50°	1221.3	1224.9	1318.4	1408.2	1471.5	1531.8	1599.4	1649.7	1623.1	1595.8	1315.5
52.5°	993.4	1002.1	1109.2	1306.9	1406.8	1510.3	1623.1	1733.1	1726.7	1700.8	1397.4
55°	796.5	810.1	923.7	1137.9	1324.1	1462.1	1633.2	1809.3	1833.8	1810.0	1477.9
57.5°	608.9	623.2	718.8	938.8	1218.4	1383.8	1626.0	1876.2	1933.7	1918.6	1552.0
60°	458.6	473.0	534.1	761.3	1086.2	1296.1	1590.1	1920.0	2023.5	2007.7	1605.9
62.5°	328.5	340.0	385.3	592.3	925.1	1191.8	1501.7	1920.7	2074.6	2061.6	1631.8
65°	236.5	236.5	273.2	422.7	774.2	1066.8	1368.0	1832.3	2063.8	2060.2	1613.8
67.5°	170.4	171.8	201.3	295.4	617.5	915.1	1194.7	1674.9	1980.4	1998.4	1549.1
70°	120.8	124.4	138.0	206.3	466.5	722.4	1009.3	1468.6	1830.2	1861.8	1424.0
72.5°	93.4	95.6	105.0	143.8	340.7	537.0	804.4	1238.6	1629.6	1665.6	1253.7
75°	71.9	74.0	81.2	105.7	244.4	376.7	571.5	961.1	1314.0	1378.0	1007.1
77.5°	52.5	55.4	60.4	76.9	142.3	239.4	346.5	540.6	725.3	755.5	527.6
80°	24.4	28.0	35.2	49.6	76.9	112.9	122.9	208.5	348.6	364.5	286.1
82.5°	13.7	17.3	20.1	30.2	38.8	40.3	41.7	52.5	131.5	145.2	120.0
85°	6.5	8.6	9.3	12.9	12.9	11.5	13.7	10.1	21.6	25.9	25.2
87.5°	0.0	0.7	1.4	3.6	2.9	2.2	2.2	2.2	2.2	2.9	2.2
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°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	629.0	619.6	598.1	579.4	567.2	556.4	542.0	535.5	524.0	526.2	519.7
5°	632.6	615.3	577.2	542.0	516.1	493.1	468.0	453.6	437.8	436.3	431.3
7.5°	634.7	608.1	553.5	503.9	464.4	429.1	395.4	376.7	357.3	353.0	348.6
10°	632.6	597.4	529.1	464.4	411.9	368.0	329.9	306.2	286.1	281.1	276.8
12.5°	634.7	591.6	506.1	427.7	365.2	315.6	272.4	248.0	229.3	224.3	221.4
15°	639.8	588.0	486.7	394.6	323.5	268.1	225.7	204.9	189.8	184.7	183.3
17.5°	644.1	584.4	465.8	362.3	281.8	226.4	189.8	172.5	159.6	154.6	153.1
20°	649.8	579.4	445.0	331.4	245.1	193.4	161.0	145.9	135.9	132.3	131.5
22.5°	654.9	575.8	425.6	300.5	211.3	166.8	139.5	127.2	120.0	116.5	116.5
25°	667.8	577.2	409.0	271.7	186.2	145.9	122.9	113.6	107.8	105.7	105.7
27.5°	682.9	583.0	396.1	247.3	164.6	130.1	111.4	103.5	100.6	97.8	98.5
30°	704.5	594.5	387.5	227.2	148.8	117.9	102.1	96.3	93.4	92.7	92.7
32.5°	731.8	613.2	386.7	214.2	137.3	108.5	95.6	90.6	89.1	88.4	88.4
35°	764.1	629.7	382.4	208.5	130.1	102.1	90.6	87.0	86.3	86.3	86.3
37.5°	802.9	657.0	379.5	200.6	126.5	98.5	87.0	84.1	84.1	84.1	84.1
40°	843.2	679.3	375.2	193.4	125.1	96.3	84.8	81.2	81.2	81.2	81.2
42.5°	891.4	711.7	373.8	189.8	122.9	94.9	81.9	77.6	78.4	78.4	79.1
45°	949.6	748.3	373.1	186.2	122.2	93.4	79.1	74.0	74.8	74.0	74.0
47.5°	1008.5	790.7	375.2	184.0	121.5	92.0	76.9	70.4	70.4	69.7	69.7
50°	1070.4	829.5	376.7	181.9	120.0	89.1	73.3	67.6	66.1	64.7	65.4
52.5°	1128.6	865.5	377.4	178.3	115.7	84.8	70.4	64.0	61.8	59.7	60.4
55°	1186.8	900.0	378.8	174.0	110.0	80.5	66.9	60.4	57.5	54.6	54.6
57.5°	1239.3	930.2	375.2	163.2	103.5	76.2	63.3	56.1	51.8	48.9	48.9
60°	1275.2	951.7	364.5	147.4	94.9	71.2	59.7	51.8	46.7	44.6	44.6
62.5°	1292.5	955.3	345.0	121.5	84.1	66.1	55.4	47.4	43.1	41.7	41.7
65°	1275.9	939.5	314.9	91.3	72.6	60.4	51.0	43.8	39.5	35.9	35.9
67.5°	1218.4	895.0	273.2	69.0	61.8	54.6	46.7	40.3	35.2	32.3	32.3
70°	1102.7	802.2	211.3	55.4	52.5	47.4	42.4	35.9	31.6	28.0	28.0
72.5°	951.0	680.0	148.8	44.6	44.6	40.3	35.9	31.6	27.3	24.4	24.4
75°	729.6	503.2	99.9	35.9	36.7	33.8	29.5	25.9	23.0	20.8	20.8
77.5°	398.2	248.7	61.1	26.6	27.3	25.9	23.0	20.8	19.4	17.3	17.3
80°	193.4	109.3	35.2	18.7	19.4	18.7	17.3	15.1	15.1	13.7	13.7
82.5°	81.2	41.0	18.7	12.9	12.9	11.5	10.8	10.8	10.8	10.1	10.1
85°	20.1	7.9	7.9	7.2	7.2	7.2	6.5	6.5	6.5	5.0	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.2	0.7	0.0	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)