

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: P573501

Luminaire Tested: **ARCH-S-PA2-80-760-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-760-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8129 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

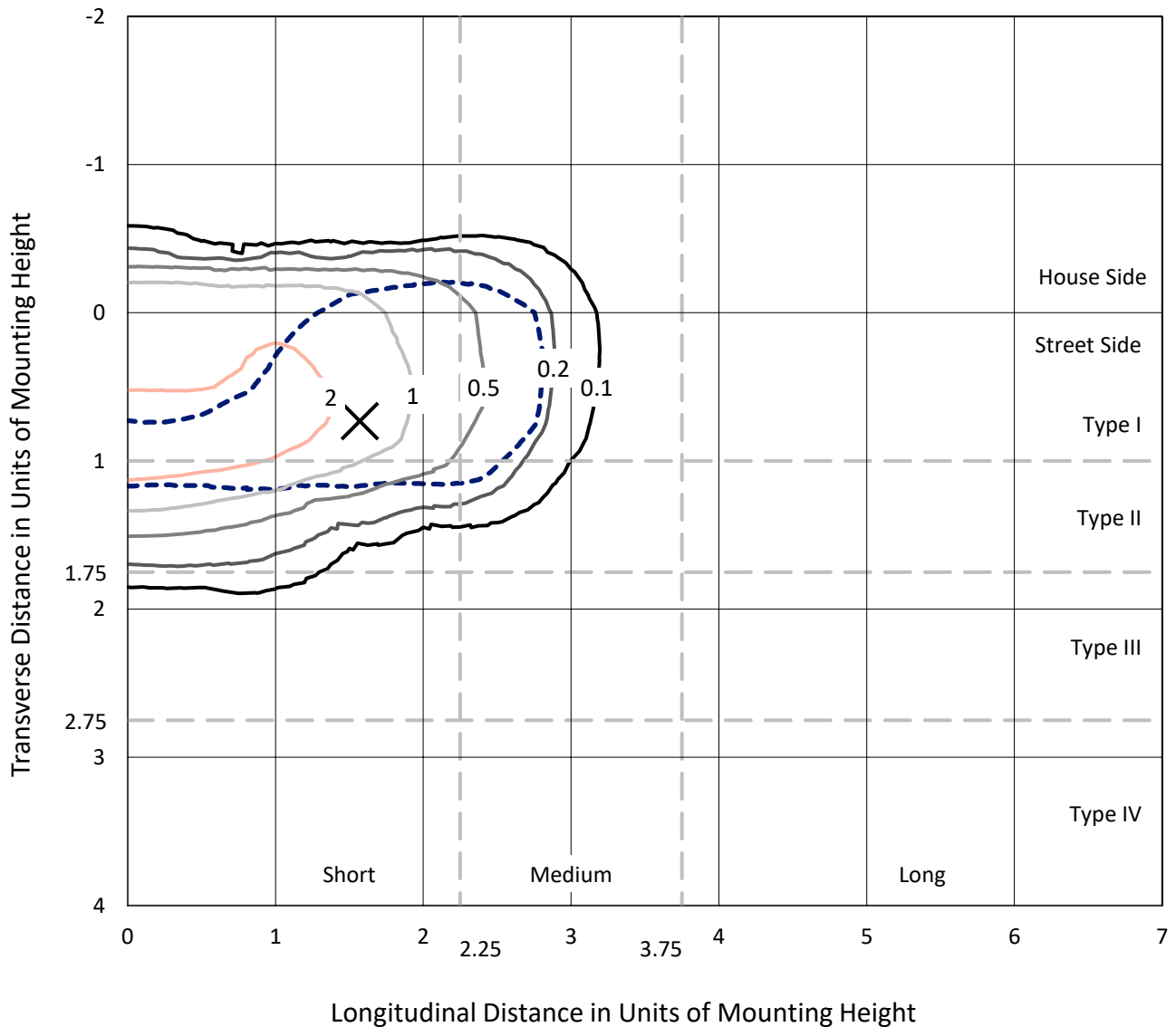
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

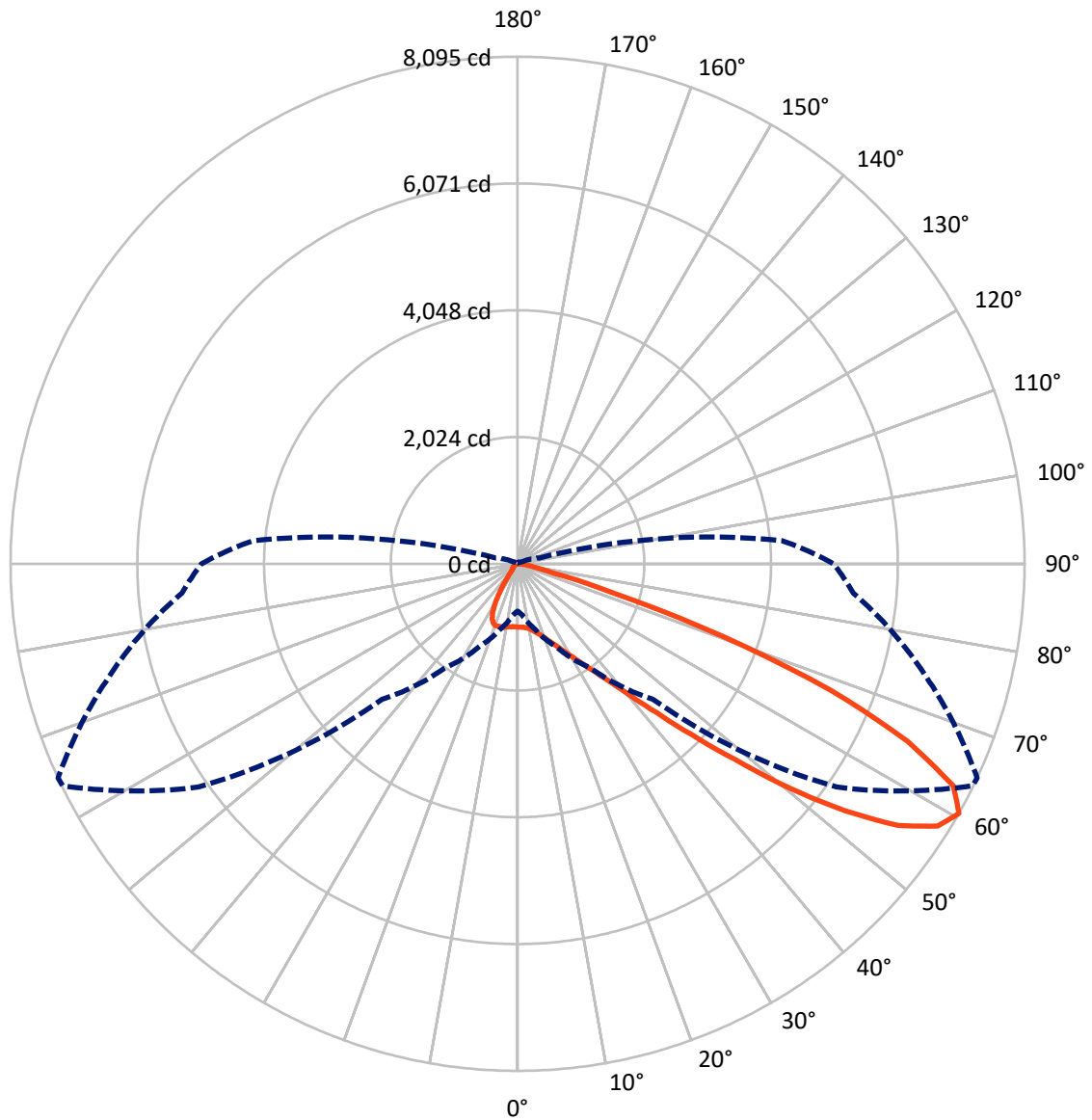
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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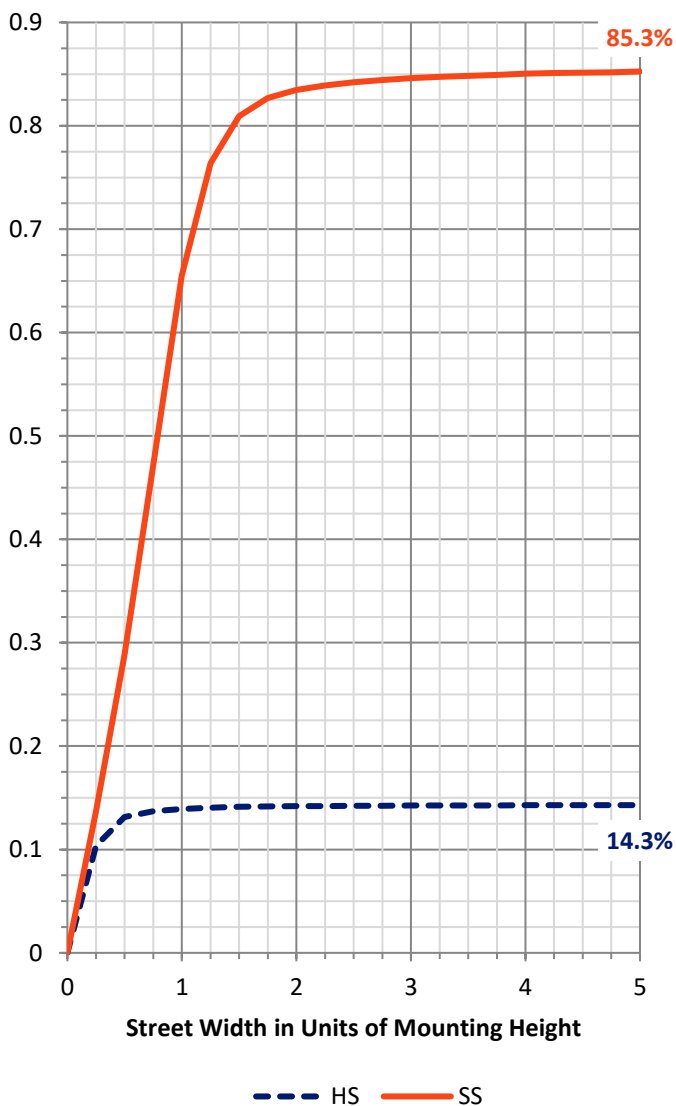
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.9	0.0	1176.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6952.1	0.0	6952.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	8129.0	0.0	8129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.2
10°-20°	271.5	3.3
20°-30°	461.3	5.7
30°-40°	951.8	11.7
40°-50°	1914.1	23.5
50°-60°	2342.3	28.8
60°-70°	1657.0	20.4
70°-80°	399.3	4.9
80°-90°	36.1	0.4
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°	8129.0	100.0
0°-180°	8129.0	100.0

Coefficient of Utilization



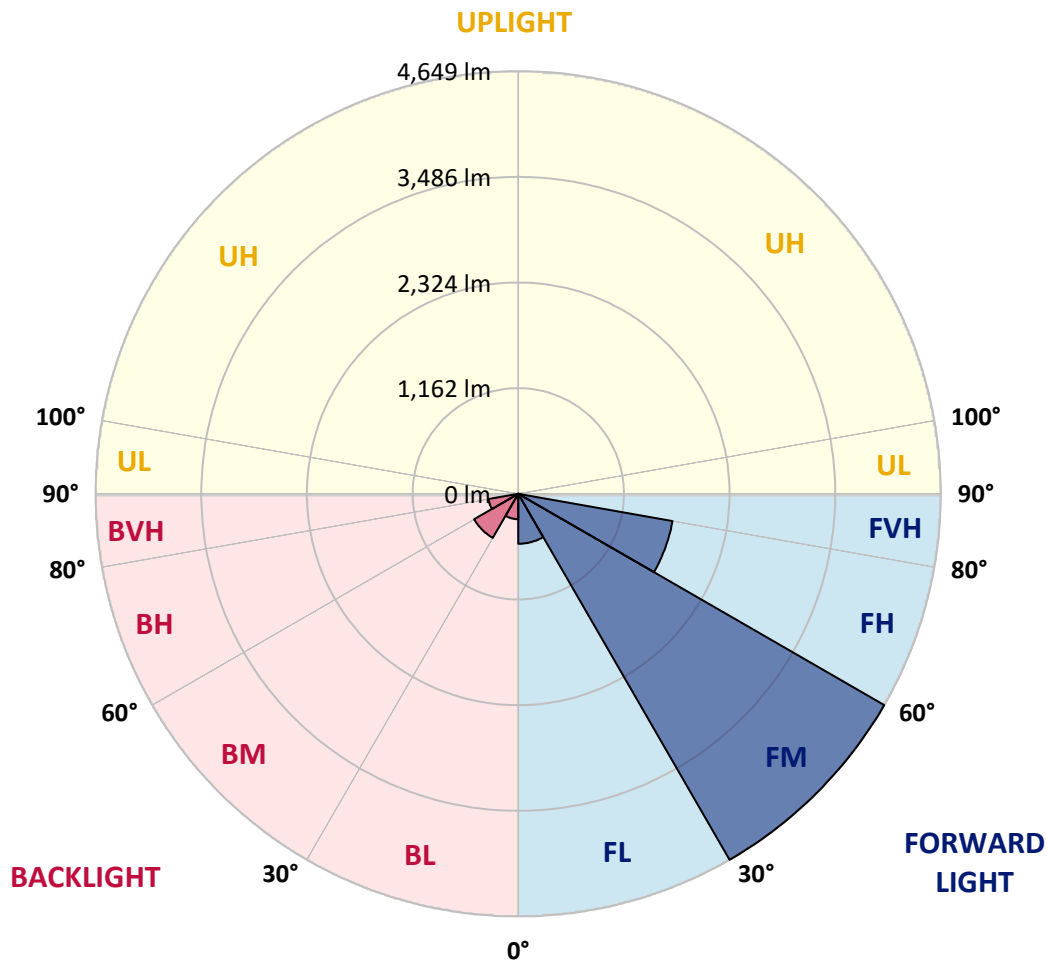
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.5	6.8			
FM (30°-60°)	4648.5	57.2			
FH (60°-80°)	1722.7	21.2			G1/1800
FVH (80°-90°)	31.4	0.4			G1/100
BL (0°-30°)	279.0	3.4	B1/500		
BM (30°-60°)	559.6	6.9	B1/1000		
BH (60°-80°)	333.6	4.1	B1/500		G1/500
BVH (80°-90°)	4.7	0.1			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°	64°	65°	75°	85°
0°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1015.9	1012.7	1012.7	1012.7	1015.9	1015.9	1019.1	1012.7	1012.7	1012.7	1012.7
5°	1009.5	1006.3	1006.3	1009.5	1012.7	1012.7	1019.1	1019.1	1019.1	1022.3	1022.3
7.5°	1022.3	1015.9	1015.9	1019.1	1022.3	1022.3	1028.7	1031.9	1031.9	1038.3	1041.5
10°	1038.3	1035.1	1035.1	1041.5	1047.9	1047.9	1057.5	1057.5	1057.5	1063.9	1067.1
12.5°	1060.7	1057.5	1057.5	1067.1	1076.8	1083.2	1089.6	1092.8	1096.0	1096.0	1096.0
15°	1092.8	1089.6	1089.6	1099.2	1112.0	1128.0	1137.7	1137.7	1144.1	1140.9	1128.0
17.5°	1137.7	1134.4	1137.7	1144.1	1160.1	1176.1	1195.3	1198.5	1195.3	1188.9	1169.7
20°	1211.4	1201.7	1208.2	1224.2	1224.2	1233.8	1259.4	1269.0	1272.2	1253.0	1217.8
22.5°	1288.3	1288.3	1294.7	1313.9	1301.1	1313.9	1336.3	1352.4	1358.8	1342.7	1285.1
25°	1432.5	1438.9	1429.3	1422.9	1390.8	1397.2	1426.1	1458.1	1458.1	1445.3	1362.0
27.5°	1749.7	1743.3	1676.0	1583.1	1499.8	1506.2	1535.0	1576.7	1579.9	1551.1	1438.9
30°	2204.8	2211.2	2079.8	1868.3	1685.6	1637.6	1669.6	1717.7	1724.1	1676.0	1538.2
32.5°	2916.2	2861.8	2618.2	2336.2	1993.3	1820.2	1833.1	1884.3	1903.6	1861.9	1695.3
35°	3836.0	3707.8	3342.5	2993.1	2496.4	2147.1	2047.8	2102.3	2111.9	2089.4	1890.7
37.5°	4384.0	4281.4	4044.3	3727.0	3143.8	2583.0	2329.8	2384.3	2374.6	2329.8	2086.2
40°	4723.7	4666.0	4537.8	4390.4	4018.6	3268.7	2794.5	2749.6	2752.8	2688.7	2403.5
42.5°	4915.9	4864.7	4816.6	4855.0	4746.1	4512.2	3467.4	3262.3	3243.1	3121.3	2772.0
45°	4925.6	4848.6	4906.3	5130.6	5303.7	5614.6	4345.5	3871.2	3880.8	3678.9	3230.3
47.5°	4557.0	4496.1	4662.8	5101.8	5675.4	6335.6	5367.8	4704.4	4659.6	4262.2	3695.0
50°	3829.6	3826.4	4047.5	4669.2	5675.4	6707.3	6463.8	5681.8	5633.8	4871.1	4118.0
52.5°	3031.6	3092.5	3243.1	3832.8	5153.1	6672.1	7271.4	6691.3	6556.7	5412.7	4470.5
55°	2358.6	2336.2	2518.9	2925.8	4085.9	6063.2	7534.1	7486.1	7373.9	5893.4	4781.3
57.5°	1448.5	1531.8	1778.6	2140.7	2973.9	4768.5	7156.0	7970.0	7902.7	6342.0	5105.0
60°	753.1	817.2	1083.2	1461.3	2031.7	3057.2	6210.6	8082.1	8095.0	6704.1	5380.6
62.5°	474.3	471.1	592.9	1025.5	1307.5	1717.7	4823.0	7684.8	7806.5	6982.9	5643.4
65°	355.7	358.9	407.0	679.4	887.7	897.3	2861.8	6646.4	6848.3	7056.6	5733.1
67.5°	330.1	333.3	355.7	445.4	666.6	599.3	1259.4	5124.2	5406.2	6377.3	5387.0
70°	294.8	298.0	333.3	368.5	503.1	439.0	567.2	3086.1	3477.0	4627.5	4310.3
72.5°	230.7	237.1	278.8	349.3	374.9	333.3	394.2	1365.2	1592.7	2544.5	2467.6
75°	169.8	173.1	211.5	269.2	330.1	237.1	304.4	541.6	592.9	955.0	814.0
77.5°	118.6	118.6	147.4	201.9	275.6	166.6	217.9	291.6	298.0	355.7	233.9
80°	73.7	76.9	92.9	137.8	169.8	160.2	134.6	195.5	195.5	185.9	96.1
82.5°	41.7	44.9	64.1	92.9	115.4	109.0	86.5	112.2	115.4	118.6	54.5
85°	19.2	22.4	38.5	57.7	67.3	51.3	51.3	57.7	57.7	76.9	32.0
87.5°	3.2	3.2	19.2	25.6	22.4	25.6	25.6	32.0	32.0	38.5	16.0
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°	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1009.5	1009.5	1009.5	1006.3	1006.3	1003.1	996.6	996.6	996.6	996.6	999.9
5°	1022.3	1019.1	1015.9	1006.3	999.9	987.0	974.2	971.0	961.4	961.4	964.6
7.5°	1038.3	1038.3	1028.7	1012.7	996.6	974.2	951.8	935.8	919.7	916.5	913.3
10°	1067.1	1060.7	1051.1	1022.3	996.6	961.4	926.1	884.5	852.4	836.4	830.0
12.5°	1089.6	1086.4	1067.1	1035.1	993.4	939.0	858.8	762.7	685.8	644.1	644.1
15°	1121.6	1115.2	1086.4	1041.5	983.8	855.6	692.2	544.8	461.5	416.6	410.2
17.5°	1153.7	1140.9	1105.6	1044.7	942.2	705.0	483.9	349.3	291.6	269.2	262.8
20°	1192.1	1169.7	1118.4	1047.9	839.6	512.7	314.1	233.9	211.5	201.9	205.1
22.5°	1243.4	1204.9	1131.2	1028.7	685.8	333.3	221.1	189.1	176.3	166.6	166.6
25°	1307.5	1253.0	1153.7	974.2	496.7	224.3	176.3	157.0	144.2	137.8	134.6
27.5°	1365.2	1297.9	1176.1	878.1	317.3	176.3	147.4	131.4	118.6	115.4	112.2
30°	1442.1	1349.2	1198.5	724.3	208.3	144.2	125.0	109.0	99.3	96.1	96.1
32.5°	1573.5	1448.5	1240.2	551.2	157.0	125.0	105.8	92.9	86.5	83.3	83.3
35°	1727.3	1570.3	1275.5	384.6	134.6	105.8	89.7	80.1	76.9	73.7	73.7
37.5°	1887.5	1714.5	1281.9	243.6	118.6	92.9	80.1	73.7	67.3	67.3	67.3
40°	2176.0	1967.7	1253.0	163.4	102.5	83.3	70.5	67.3	60.9	60.9	60.9
42.5°	2512.4	2275.3	1179.3	131.4	92.9	73.7	67.3	60.9	54.5	54.5	51.3
45°	2948.3	2624.6	1054.3	115.4	83.3	67.3	60.9	54.5	51.3	48.1	48.1
47.5°	3358.5	3022.0	935.8	102.5	76.9	64.1	54.5	48.1	44.9	44.9	44.9
50°	3749.4	3326.4	798.0	96.1	70.5	60.9	51.3	44.9	41.7	38.5	38.5
52.5°	4031.5	3566.8	669.8	86.5	64.1	54.5	48.1	41.7	35.3	32.0	32.0
55°	4345.5	3810.3	554.4	76.9	60.9	51.3	41.7	35.3	28.8	25.6	25.6
57.5°	4698.0	4047.5	448.7	70.5	57.7	44.9	35.3	28.8	22.4	19.2	19.2
60°	5047.3	4236.6	358.9	64.1	51.3	41.7	32.0	22.4	16.0	12.8	12.8
62.5°	5396.6	4364.7	275.6	57.7	48.1	35.3	25.6	16.0	9.6	6.4	6.4
65°	5540.8	4329.5	205.1	51.3	41.7	28.8	22.4	16.0	9.6	6.4	6.4
67.5°	5140.3	3893.7	144.2	51.3	38.5	28.8	19.2	12.8	6.4	3.2	3.2
70°	4012.2	3006.0	105.8	51.3	38.5	28.8	19.2	12.8	6.4	3.2	3.2
72.5°	2275.3	1672.8	80.1	44.9	35.3	25.6	19.2	12.8	6.4	3.2	3.2
75°	810.8	538.4	60.9	41.7	32.0	22.4	19.2	12.8	6.4	3.2	3.2
77.5°	195.5	137.8	48.1	35.3	28.8	22.4	16.0	12.8	9.6	3.2	3.2
80°	80.1	57.7	38.5	28.8	22.4	19.2	16.0	12.8	6.4	3.2	3.2
82.5°	35.3	28.8	16.0	16.0	12.8	12.8	12.8	12.8	6.4	3.2	3.2
85°	16.0	12.8	6.4	6.4	3.2	3.2	3.2	6.4	6.4	3.2	3.2
87.5°	9.6	6.4	6.4	6.4	3.2	3.2	3.2	0.0	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)