

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: P572947

Luminaire Tested: **ARCH-S-PA2-130-827-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8735 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

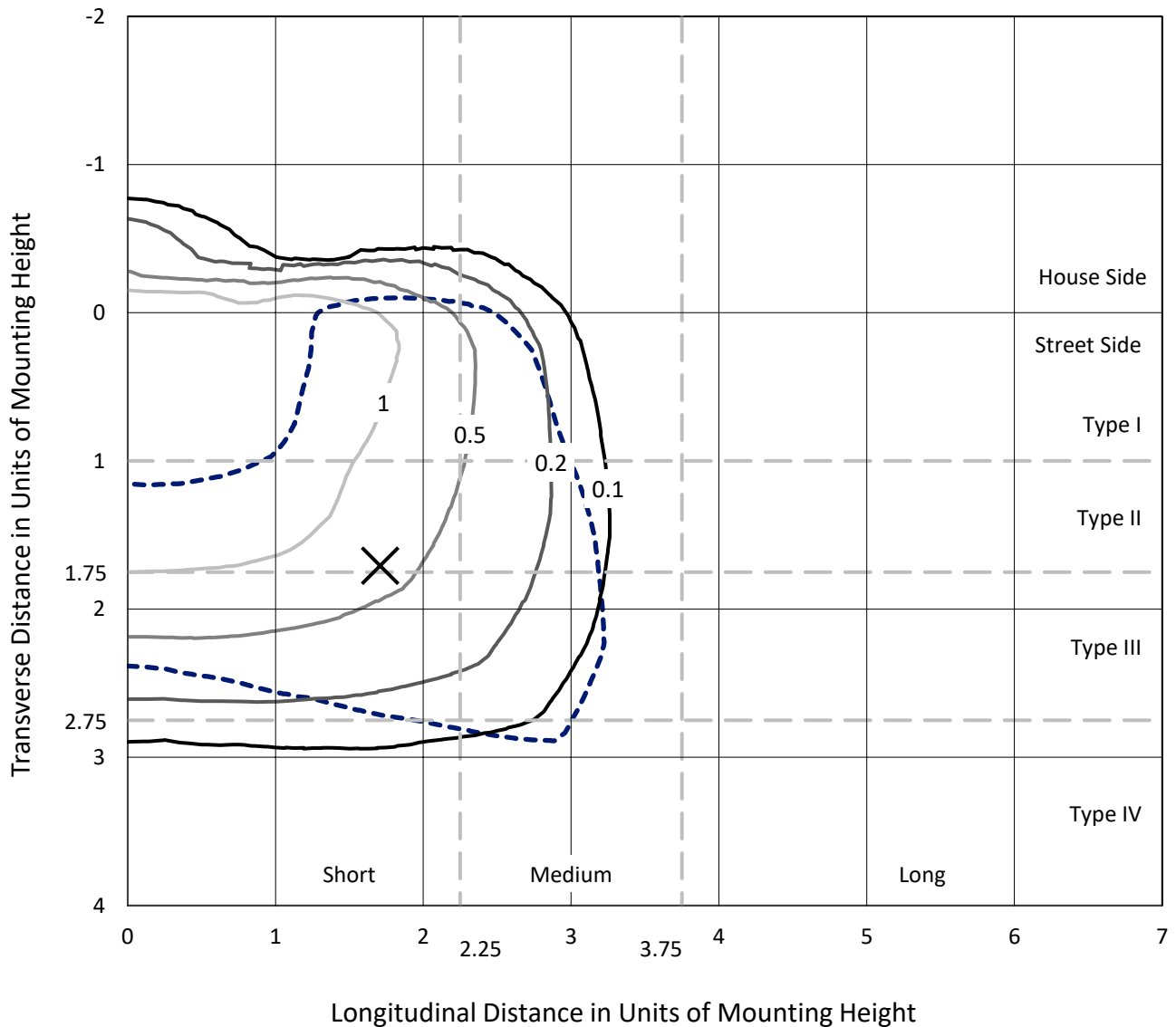
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

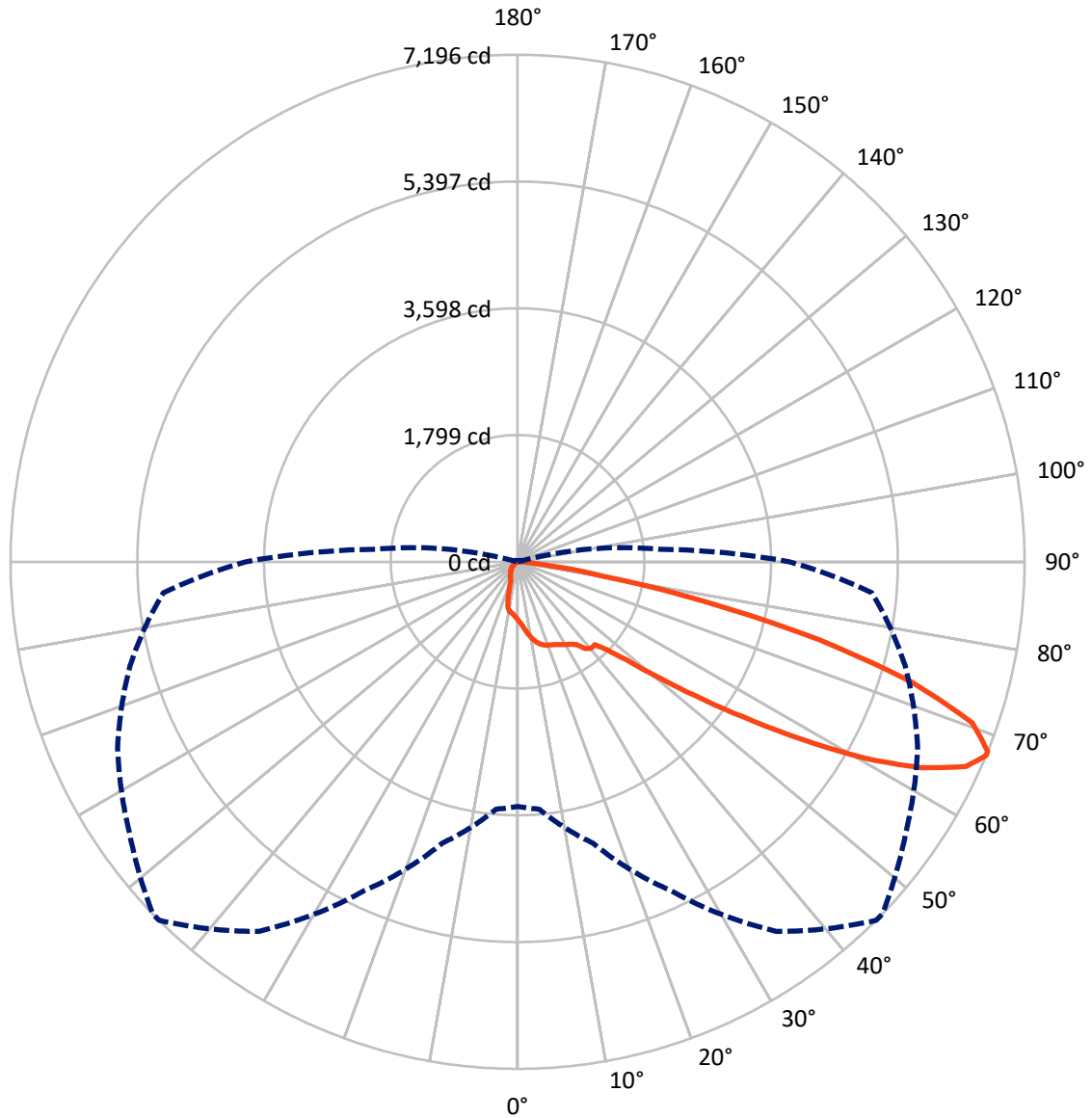
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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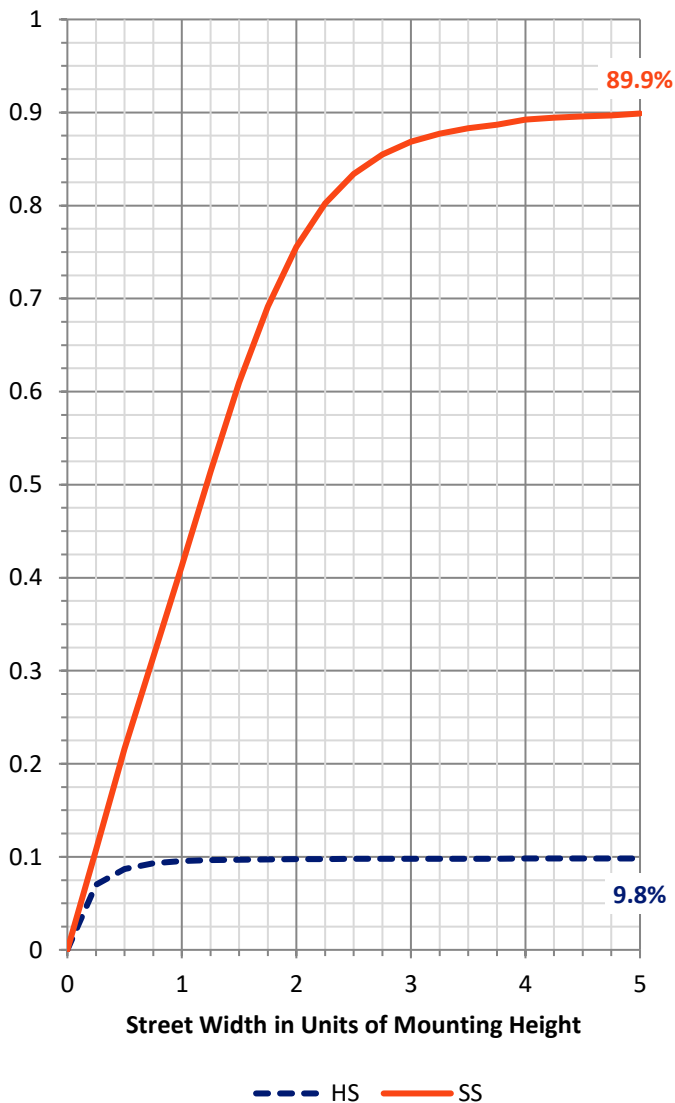
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.5	0.0	865.5
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	7869.5	0.0	7869.5
	% Fixture	90.1	0.0	90.1
Total	Lumens	8735.0	0.0	8735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	0.9
10°-20°	250.7	2.9
20°-30°	400.9	4.6
30°-40°	577.1	6.6
40°-50°	1012.4	11.6
50°-60°	2133.1	24.4
60°-70°	2949.7	33.8
70°-80°	1234.9	14.1
80°-90°	93.4	1.1
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°	8735.0	100.0
0°-180°	8735.0	100.0

Coefficient of Utilization



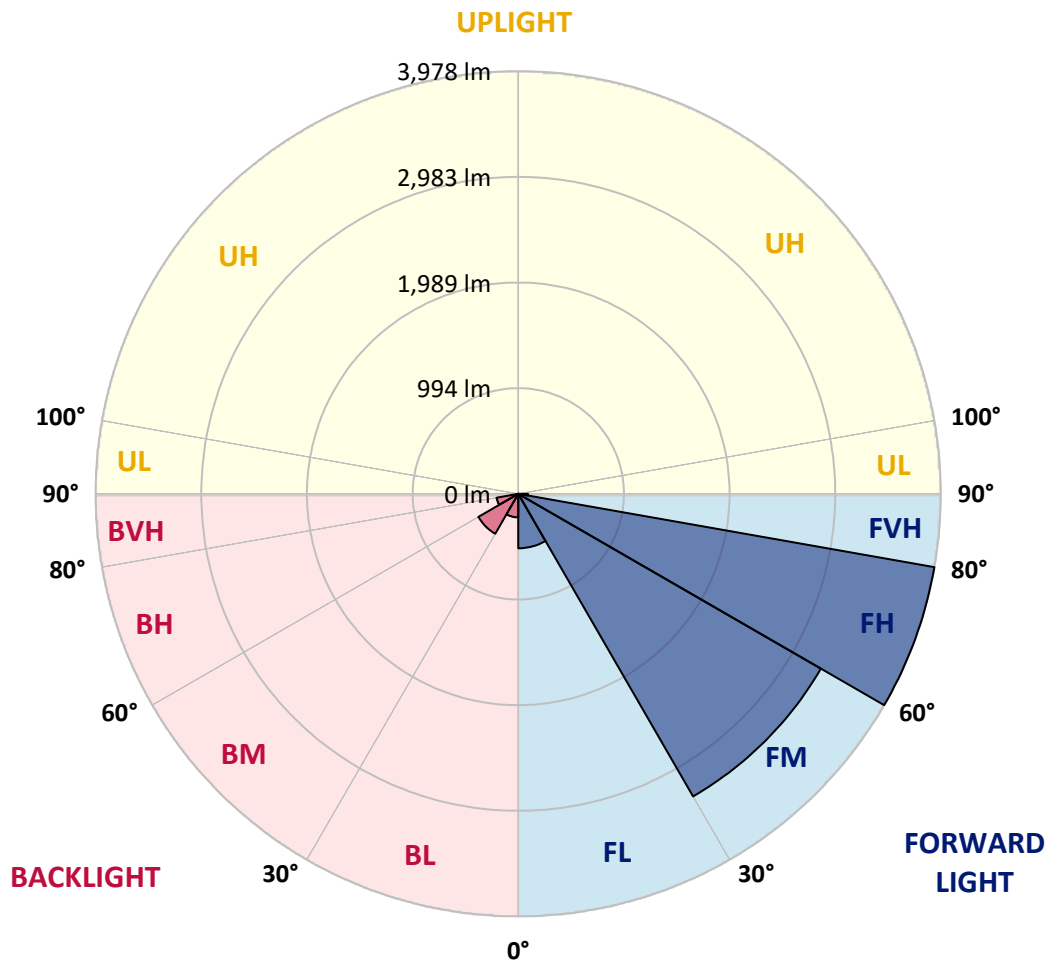
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.7	5.9			
FM (30°-60°)	3288.8	37.7			
FH (60°-80°)	3977.7	45.5			G2/5000
FVH (80°-90°)	90.2	1.0			G1/100
BL (0°-30°)	221.8	2.5	B1/500		
BM (30°-60°)	433.6	5.0	B1/1000		
BH (60°-80°)	206.9	2.4	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
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°	46°	55°	65°	75°	85°
0°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	919.7	903.5	900.3	897.1	887.4	874.5	877.7	868.0	851.9	842.2	832.5
5°	1032.6	1016.5	1010.0	990.7	971.3	942.3	942.3	916.5	887.4	861.6	835.8
7.5°	1148.8	1135.9	1123.0	1093.9	1064.9	1026.2	1022.9	984.2	939.0	900.3	858.4
10°	1245.6	1235.9	1219.8	1184.3	1145.6	1103.6	1093.9	1058.4	1000.4	948.7	893.9
12.5°	1323.0	1313.4	1290.8	1255.3	1206.9	1164.9	1161.7	1116.5	1058.4	1003.6	935.8
15°	1381.1	1365.0	1339.2	1300.5	1252.1	1213.3	1206.9	1168.2	1113.3	1052.0	971.3
17.5°	1390.8	1381.1	1358.5	1316.6	1274.6	1242.4	1239.1	1210.1	1161.7	1097.2	1013.3
20°	1365.0	1361.8	1342.4	1310.1	1277.9	1261.7	1258.5	1239.1	1200.4	1142.3	1058.4
22.5°	1326.3	1323.0	1310.1	1294.0	1281.1	1277.9	1277.9	1271.4	1248.8	1194.0	1116.5
25°	1300.5	1297.2	1290.8	1281.1	1281.1	1300.5	1303.7	1310.1	1290.8	1248.8	1164.9
27.5°	1303.7	1297.2	1290.8	1281.1	1294.0	1329.5	1332.7	1348.9	1332.7	1294.0	1219.8
30°	1348.9	1339.2	1319.8	1297.2	1313.4	1361.8	1365.0	1384.4	1371.4	1352.1	1281.1
32.5°	1419.9	1413.4	1374.7	1336.0	1345.6	1394.0	1400.5	1436.0	1452.1	1423.1	1336.0
35°	1523.1	1500.5	1452.1	1413.4	1406.9	1442.4	1452.1	1510.2	1552.2	1481.2	1368.2
37.5°	1607.0	1587.7	1510.2	1448.9	1484.4	1565.1	1568.3	1639.3	1603.8	1487.6	1419.9
40°	1891.0	1887.8	1752.2	1558.6	1519.9	1610.2	1623.1	1636.1	1619.9	1561.8	1532.8
42.5°	2349.2	2310.5	2158.8	1861.9	1597.3	1607.0	1613.5	1681.2	1765.1	1739.3	1749.0
45°	2846.2	2813.9	2642.9	2268.5	1861.9	1781.3	1787.7	1897.4	2058.8	2091.1	2142.7
47.5°	3304.4	3252.8	3155.9	2778.4	2313.7	2078.1	2091.1	2223.4	2491.2	2562.2	2642.9
50°	3691.6	3656.1	3565.8	3317.3	2868.7	2546.1	2559.0	2668.7	3017.2	3130.1	3233.4
52.5°	4253.1	4204.7	4030.4	3914.3	3575.4	3155.9	3126.9	3243.1	3643.2	3717.4	3856.2
55°	4769.4	4669.4	4566.1	4517.7	4375.7	3885.2	3875.6	3898.1	4230.5	4269.2	4517.7
57.5°	4988.8	4969.5	5056.6	5218.0	5250.2	4743.6	4701.6	4614.5	4875.9	4872.7	5163.1
60°	5127.6	5127.6	5359.9	5760.1	6018.2	5660.0	5602.0	5330.9	5424.5	5427.7	5695.5
62.5°	5040.5	5063.1	5424.5	6027.9	6547.5	6437.7	6399.0	5944.0	5937.6	5863.3	5956.9
65°	4501.6	4540.3	5121.1	5879.5	6741.1	6999.2	6983.1	6466.8	6279.6	6008.6	5798.8
67°	3672.3	3743.2	4446.7	5343.8	6521.6	7192.8	7196.1	6692.7	6282.8	5766.5	5240.5
67.5°	3472.2	3523.8	4133.7	5150.2	6402.2	7196.1	7196.1	6721.7	6263.5	5692.3	5046.9
70°	2213.7	2226.6	2891.3	3985.3	5469.7	6847.6	6873.4	6502.3	5705.2	4608.1	3543.2
72.5°	1093.9	1064.9	1526.3	2565.4	4104.7	5860.1	5927.9	5553.6	4514.5	3010.7	1871.6
75°	429.2	458.2	664.7	1365.0	2571.9	4417.7	4469.3	4040.1	2904.2	1552.2	739.0
77.5°	190.4	190.4	284.0	613.1	1352.1	2710.6	2736.4	2465.4	1532.8	638.9	225.9
80°	103.3	109.7	148.4	267.8	680.9	1245.6	1358.5	1223.0	693.8	280.7	77.4
82.5°	51.6	54.9	90.4	151.7	342.1	471.1	496.9	519.5	319.5	174.3	32.3
85°	19.4	22.6	48.4	87.1	154.9	158.1	158.1	203.3	174.3	132.3	16.1
87.5°	3.2	6.5	22.6	35.5	61.3	54.9	48.4	64.5	96.8	83.9	9.7
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°	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1	826.1
2.5°	826.1	819.6	806.7	797.1	790.6	784.1	777.7	777.7	774.5	774.5	777.7
5°	826.1	813.2	787.4	771.2	758.3	748.6	742.2	742.2	739.0	742.2	745.4
7.5°	842.2	822.9	787.4	758.3	742.2	726.1	719.6	716.4	716.4	719.6	716.4
10°	868.0	842.2	797.1	758.3	735.7	713.2	677.7	645.4	616.3	603.4	600.2
12.5°	900.3	868.0	813.2	768.0	732.5	655.1	558.3	496.9	458.2	438.9	432.4
15°	935.8	897.1	832.5	780.9	684.1	538.9	413.0	345.3	322.7	325.9	329.1
17.5°	974.5	932.6	861.6	774.5	587.3	400.1	303.3	287.2	296.9	306.6	306.6
20°	1013.3	968.1	890.6	726.1	461.5	296.9	271.1	274.3	284.0	293.7	293.7
22.5°	1064.9	1016.5	919.7	642.2	342.1	258.2	258.2	264.6	271.1	280.7	280.7
25°	1119.7	1071.3	939.0	538.9	254.9	242.0	245.2	251.7	258.2	267.8	267.8
27.5°	1177.8	1129.4	935.8	416.3	222.7	222.7	225.9	235.6	242.0	251.7	251.7
30°	1242.4	1200.4	900.3	303.3	206.5	203.3	203.3	213.0	222.7	229.1	232.3
32.5°	1297.2	1261.7	839.0	229.1	193.6	187.2	183.9	187.2	196.8	203.3	206.5
35°	1342.4	1329.5	748.6	196.8	180.7	171.0	164.6	161.3	164.6	164.6	167.8
37.5°	1426.3	1429.5	642.2	183.9	171.0	158.1	145.2	135.5	129.1	125.9	122.6
40°	1584.4	1581.2	529.2	174.3	161.3	145.2	125.9	112.9	96.8	90.4	90.4
42.5°	1807.1	1758.7	403.4	164.6	151.7	132.3	106.5	87.1	71.0	67.8	67.8
45°	2207.2	2007.2	303.3	158.1	142.0	116.2	87.1	64.5	54.9	51.6	51.6
47.5°	2649.3	2294.4	242.0	148.4	132.3	103.3	67.8	51.6	42.0	42.0	42.0
50°	3136.6	2568.6	203.3	138.8	116.2	87.1	54.9	42.0	38.7	35.5	38.7
52.5°	3669.0	2784.8	177.5	125.9	100.0	71.0	45.2	38.7	32.3	32.3	32.3
55°	4146.6	2930.1	148.4	109.7	83.9	58.1	42.0	32.3	29.0	25.8	22.6
57.5°	4579.0	3007.5	119.4	93.6	64.5	48.4	35.5	25.8	22.6	16.1	16.1
60°	4801.7	2936.5	93.6	74.2	51.6	38.7	29.0	22.6	16.1	9.7	9.7
62.5°	4837.2	2752.6	74.2	58.1	45.2	32.3	22.6	16.1	9.7	6.5	6.5
65°	4527.4	2429.9	61.3	48.4	35.5	25.8	19.4	12.9	6.5	3.2	3.2
67°	3972.4	2091.1	54.9	42.0	32.3	22.6	16.1	9.7	6.5	3.2	0.0
67.5°	3862.6	2029.7	51.6	42.0	32.3	22.6	16.1	9.7	6.5	3.2	0.0
70°	2536.4	1403.7	48.4	38.7	29.0	19.4	12.9	9.7	3.2	0.0	0.0
72.5°	1384.4	706.7	45.2	35.5	25.8	19.4	12.9	6.5	3.2	0.0	0.0
75°	506.6	267.8	38.7	32.3	22.6	19.4	12.9	6.5	3.2	0.0	0.0
77.5°	171.0	93.6	35.5	32.3	25.8	19.4	12.9	6.5	3.2	0.0	0.0
80°	58.1	42.0	29.0	25.8	19.4	16.1	12.9	6.5	3.2	0.0	0.0
82.5°	22.6	12.9	9.7	9.7	9.7	12.9	12.9	9.7	3.2	0.0	0.0
85°	9.7	6.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0
87.5°	9.7	6.5	3.2	3.2	3.2	0.0	0.0	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)