

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: P397725

Luminaire Tested: **ARCH-S-PA1-30-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2694 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

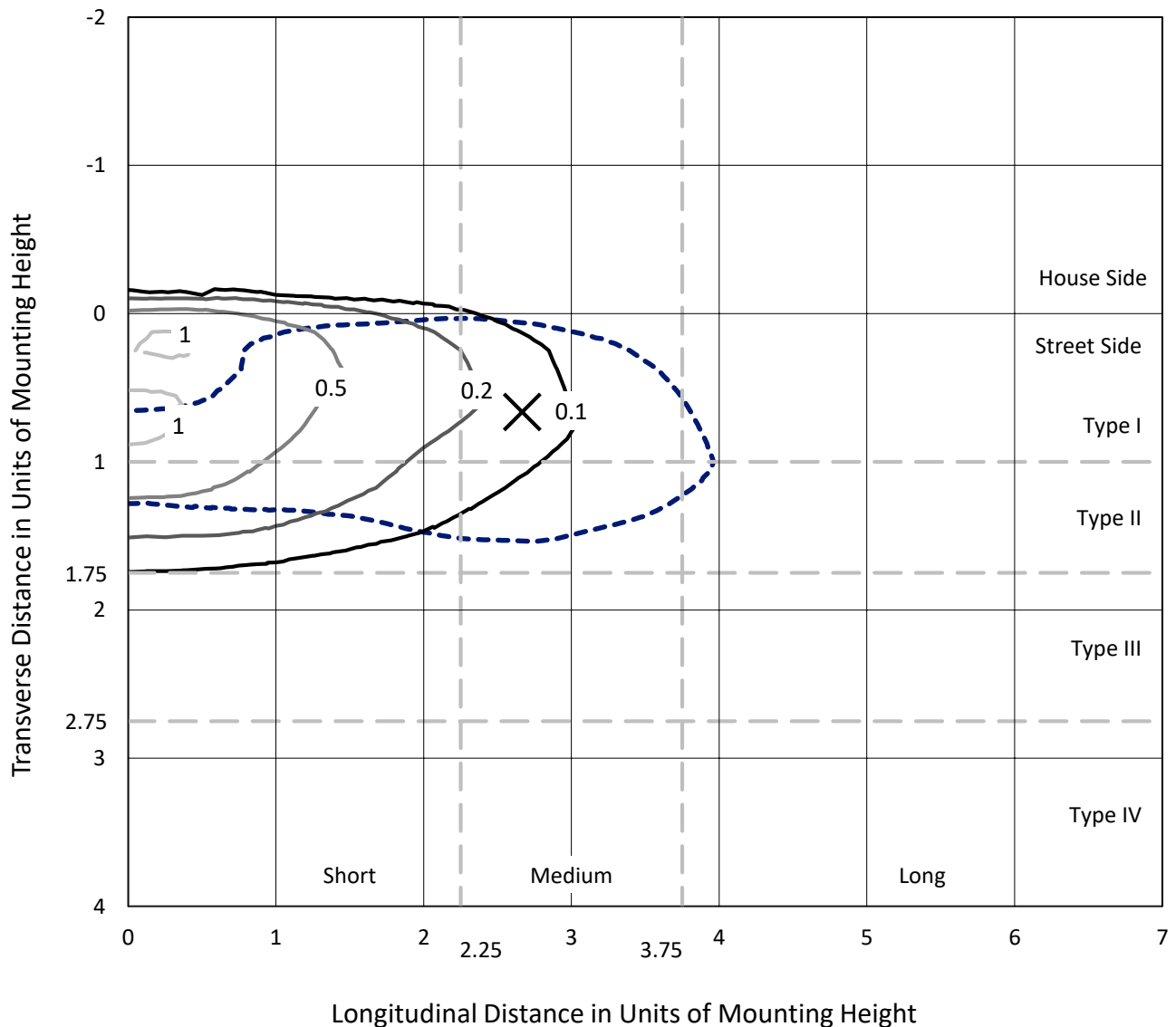
Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

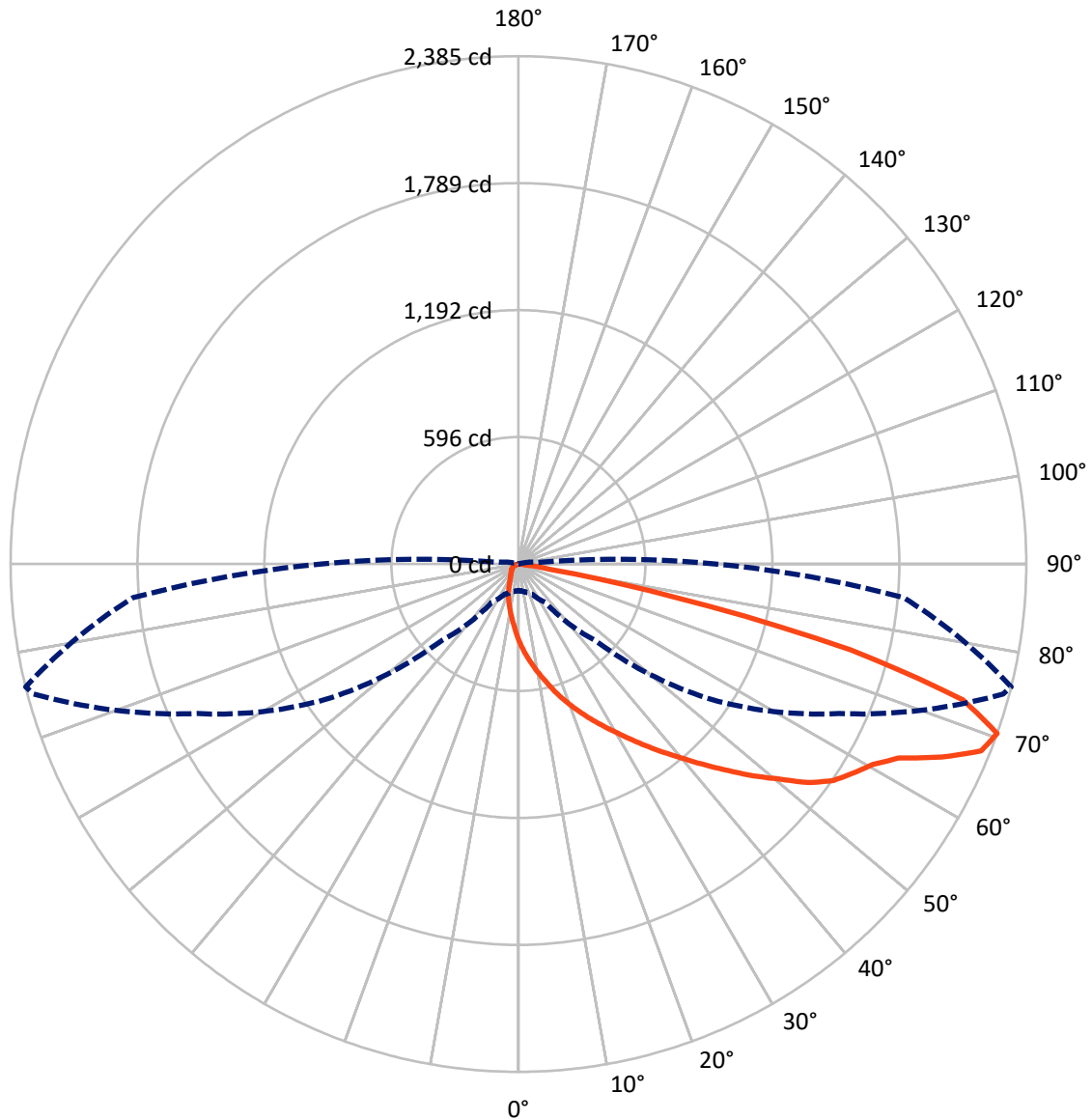
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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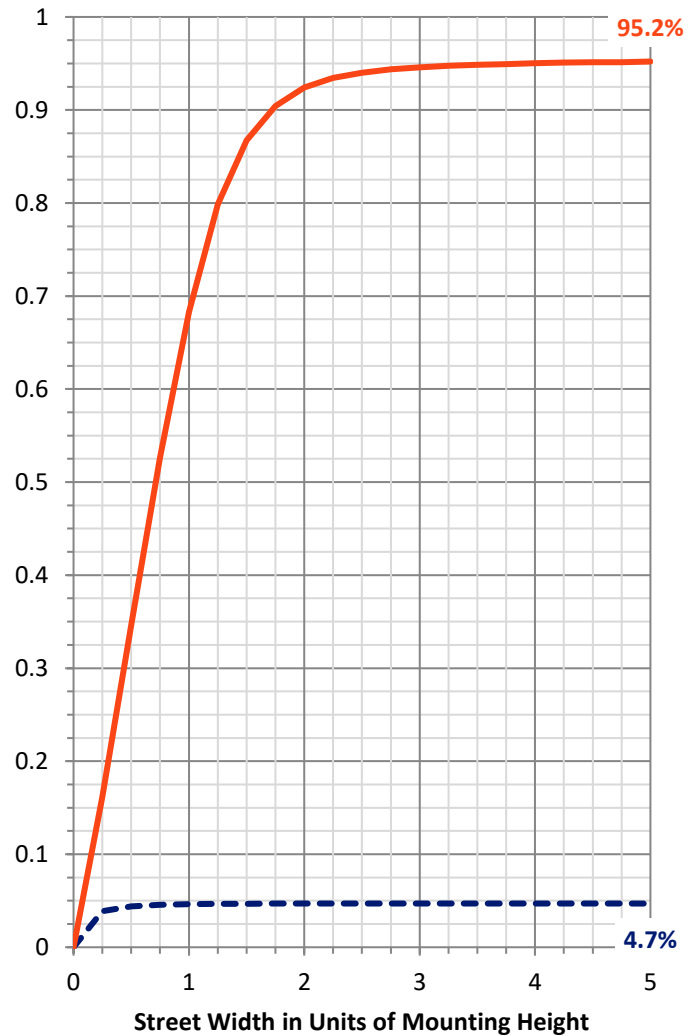
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.0	0.0	127.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	2566.9	0.0	2566.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	2694.0	0.0	2694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.3
10°-20°	109.6	4.1
20°-30°	204.2	7.6
30°-40°	361.2	13.4
40°-50°	552.3	20.5
50°-60°	626.2	23.2
60°-70°	536.8	19.9
70°-80°	260.0	9.7
80°-90°	9.6	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°	2694.0	100.0
0°-180°	2694.0	100.0



--- HS — SS

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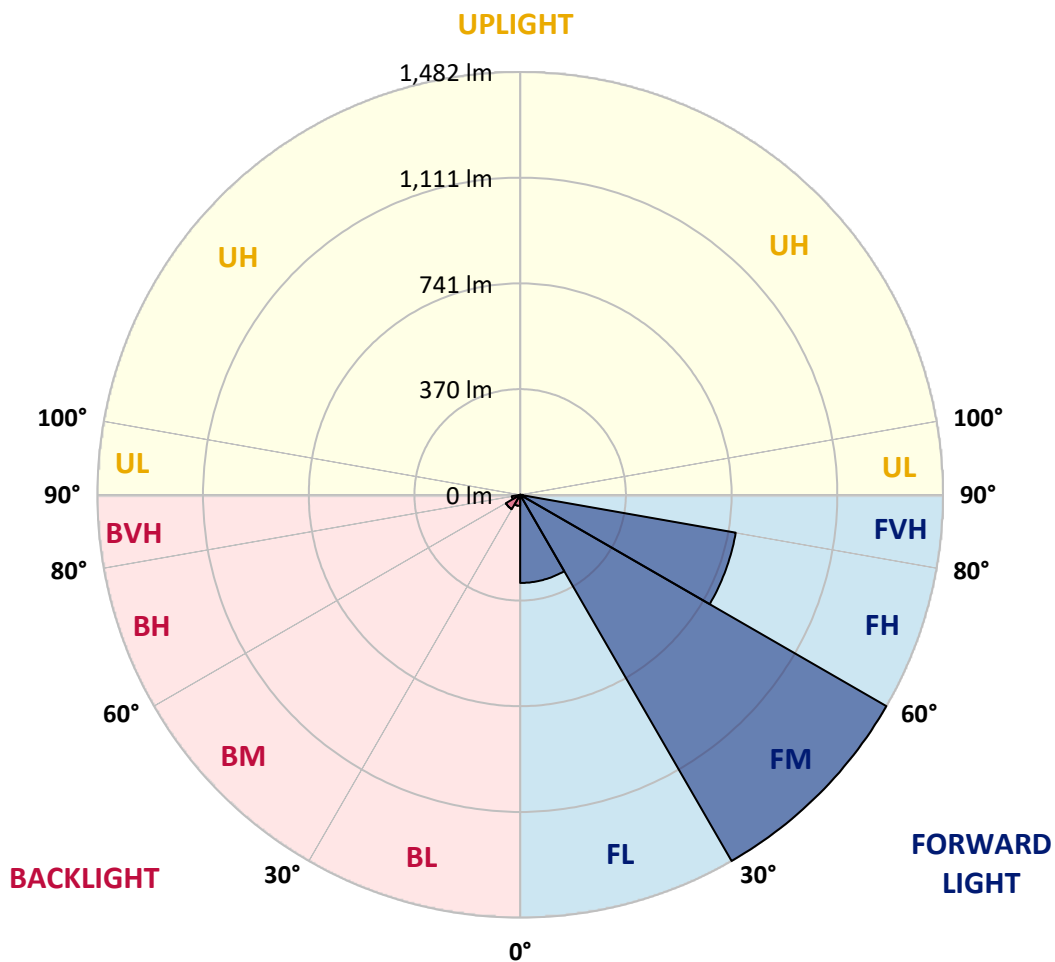
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.8	11.5			
FM	(30°-60°)	1481.7	55.0			
FH	(60°-80°)	766.9	28.5			G1/1800
FVH	(80°-90°)	9.5	0.4			G0/10
BL	(0°-30°)	39.0	1.4	B0/110		
BM	(30°-60°)	58.0	2.2	B0/220		
BH	(60°-80°)	29.9	1.1	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6
2.5°	492.9	490.2	487.5	477.2	467.8	459.3	443.1	422.1	403.2	399.2	377.2
5°	579.0	575.9	571.9	561.5	549.4	535.1	511.3	479.0	445.8	438.7	397.8
7.5°	637.3	634.7	628.8	623.9	611.8	597.9	571.4	533.7	488.0	479.0	421.6
10°	677.3	675.5	674.6	670.5	661.6	650.4	623.9	584.4	530.6	520.3	446.7
12.5°	691.6	691.6	696.1	702.8	704.2	700.6	676.4	636.9	575.4	564.7	476.3
15°	672.3	674.6	684.4	706.0	728.4	743.2	727.9	691.2	624.8	613.1	511.3
17.5°	666.9	669.2	675.9	694.8	724.8	764.3	771.9	743.6	671.4	661.6	547.2
20°	682.2	684.4	690.3	706.4	729.3	769.2	801.1	794.3	720.8	710.5	583.5
22.5°	718.5	719.9	719.9	732.4	752.6	782.2	819.4	842.3	771.5	760.2	619.4
25°	796.6	793.9	783.1	776.8	789.8	814.1	842.8	884.5	828.0	812.7	658.0
27.5°	898.8	907.8	881.8	851.7	841.9	855.8	875.5	921.7	882.7	866.5	693.0
30°	1037.4	1033.8	999.7	956.7	914.1	909.1	915.9	953.6	937.4	922.2	732.0
32.5°	1151.3	1158.1	1122.2	1069.7	1006.0	976.0	968.8	991.7	995.7	985.8	778.2
35°	1268.4	1275.6	1240.6	1182.3	1106.5	1056.3	1035.6	1038.8	1067.9	1055.4	826.6
37.5°	1373.4	1379.6	1345.1	1285.5	1209.7	1148.2	1118.6	1094.4	1137.9	1126.7	877.8
40°	1453.2	1454.1	1430.8	1377.4	1305.6	1241.9	1208.3	1160.8	1211.9	1204.3	931.1
42.5°	1509.7	1511.5	1494.5	1448.7	1382.3	1323.1	1295.8	1239.3	1297.1	1290.4	993.0
45°	1536.2	1539.3	1537.5	1495.4	1440.2	1389.1	1380.1	1322.7	1390.4	1384.1	1064.3
47.5°	1511.1	1511.1	1533.9	1528.1	1477.4	1443.3	1453.6	1409.7	1491.8	1485.9	1137.0
50°	1406.6	1407.9	1454.5	1521.4	1491.8	1484.1	1516.4	1494.9	1583.7	1587.3	1224.0
52.5°	1132.1	1129.8	1287.2	1415.5	1481.9	1502.5	1574.3	1581.9	1694.1	1704.8	1310.6
55°	845.9	844.6	995.3	1228.0	1412.8	1493.1	1606.6	1659.5	1788.2	1795.0	1375.2
57.5°	669.6	666.1	749.0	989.9	1256.7	1451.0	1607.9	1674.3	1840.7	1852.4	1438.0
60°	514.9	511.8	573.7	736.5	1035.6	1338.8	1569.4	1675.2	1891.4	1912.0	1522.3
62.5°	368.2	371.8	419.4	528.4	796.6	1180.5	1519.1	1687.8	1981.6	2004.9	1642.0
65°	248.5	246.7	286.2	359.7	566.5	967.5	1442.0	1714.2	2143.9	2184.7	1785.6
67.5°	172.7	174.0	192.0	234.1	359.7	742.7	1313.7	1729.0	2311.7	2343.5	1886.0
70°	124.7	126.5	136.3	157.4	219.8	503.7	1110.5	1661.3	2357.0	2384.8	1816.1
72.5°	82.1	85.7	100.5	111.7	140.4	315.3	818.1	1431.2	2161.9	2182.5	1523.6
75°	44.4	45.3	64.6	83.4	100.0	196.5	488.0	965.2	1617.4	1610.6	1004.7
77.5°	34.5	35.9	39.9	59.7	67.3	108.1	192.9	436.0	766.1	745.4	342.7
80°	21.1	22.0	27.8	35.4	47.1	62.8	56.5	118.4	155.6	145.8	50.2
82.5°	12.6	13.5	16.6	29.6	37.2	29.6	19.7	28.7	29.2	28.7	12.6
85°	2.2	2.2	11.7	20.6	19.7	8.5	11.7	9.4	8.5	9.0	2.7
87.5°	0.0	0.0	4.5	6.3	9.0	3.1	4.5	2.2	2.2	2.2	1.3
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°	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6
2.5°	363.7	348.5	317.1	289.7	262.4	242.2	227.0	211.3	205.9	199.1	195.6
5°	370.0	340.0	277.6	227.8	185.7	153.4	132.8	120.2	112.1	106.3	105.0
7.5°	379.4	333.2	245.8	178.5	132.3	100.0	83.0	74.5	70.0	67.3	66.4
10°	390.7	327.4	214.4	139.0	93.3	70.4	61.0	57.4	55.6	54.7	54.3
12.5°	406.4	325.2	187.9	107.2	70.4	57.9	52.9	50.7	49.3	48.0	47.5
15°	427.0	326.1	163.7	83.0	58.3	51.6	47.5	45.3	43.5	42.2	42.2
17.5°	448.5	327.4	139.9	67.3	52.9	47.1	42.6	39.5	38.1	36.8	36.3
20°	468.7	327.0	117.1	57.4	48.0	42.2	37.7	34.5	32.3	30.9	30.9
22.5°	488.0	324.3	95.5	51.6	44.0	37.2	32.3	29.2	27.4	26.0	26.0
25°	508.6	318.9	78.0	47.1	39.0	32.7	27.8	24.7	23.3	22.0	22.0
27.5°	524.8	309.9	63.7	43.1	34.5	28.3	23.8	21.1	19.7	18.8	18.8
30°	542.3	296.9	52.9	38.6	30.1	24.2	20.2	17.9	16.6	16.1	16.1
32.5°	561.5	282.6	45.3	34.1	25.6	20.6	17.0	15.7	14.4	13.9	13.9
35°	584.0	270.0	40.8	29.6	22.4	17.5	14.8	13.5	12.6	12.6	12.6
37.5°	609.5	257.0	36.8	26.0	19.3	14.8	12.6	12.1	11.7	11.2	11.2
40°	637.3	243.1	33.2	22.9	16.6	12.6	10.8	10.8	10.3	10.3	10.3
42.5°	668.7	231.0	30.1	20.2	14.4	10.8	9.4	9.4	9.0	9.0	9.0
45°	702.8	219.8	27.4	17.9	12.6	9.4	8.5	8.1	7.6	7.6	7.6
47.5°	743.2	213.5	25.1	15.7	10.8	8.1	7.2	6.7	6.3	5.8	5.8
50°	794.8	216.2	22.9	13.0	9.4	6.7	5.8	5.4	4.9	4.5	4.5
52.5°	835.6	214.8	19.7	11.2	7.6	5.4	4.5	4.0	3.6	3.1	3.1
55°	865.2	209.5	17.0	9.4	5.8	4.5	3.6	2.7	2.2	2.2	2.2
57.5°	894.3	204.1	14.4	7.6	4.5	3.1	2.2	1.8	1.8	1.8	1.8
60°	939.6	196.5	12.6	6.3	3.6	2.2	1.3	1.3	0.9	0.9	0.9
62.5°	994.8	187.0	10.3	5.4	2.7	1.8	0.9	0.9	0.0	0.0	0.0
65°	1055.4	170.4	8.5	4.0	2.2	1.3	0.9	0.0	0.0	0.0	0.0
67.5°	1041.5	136.8	7.2	2.7	1.8	0.9	0.4	0.0	0.0	0.0	0.0
70°	921.3	92.4	5.8	2.2	1.3	0.9	0.4	0.0	0.0	0.0	0.0
72.5°	721.7	54.7	4.0	1.8	0.9	0.4	0.0	0.0	0.0	0.0	0.0
75°	462.0	27.4	2.7	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
77.5°	154.7	13.5	1.8	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.0	4.5	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	1.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.0	0.0	0.0	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)