

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: P397711

Luminaire Tested: **ARCH-S-PA1-30-750-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3392 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-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

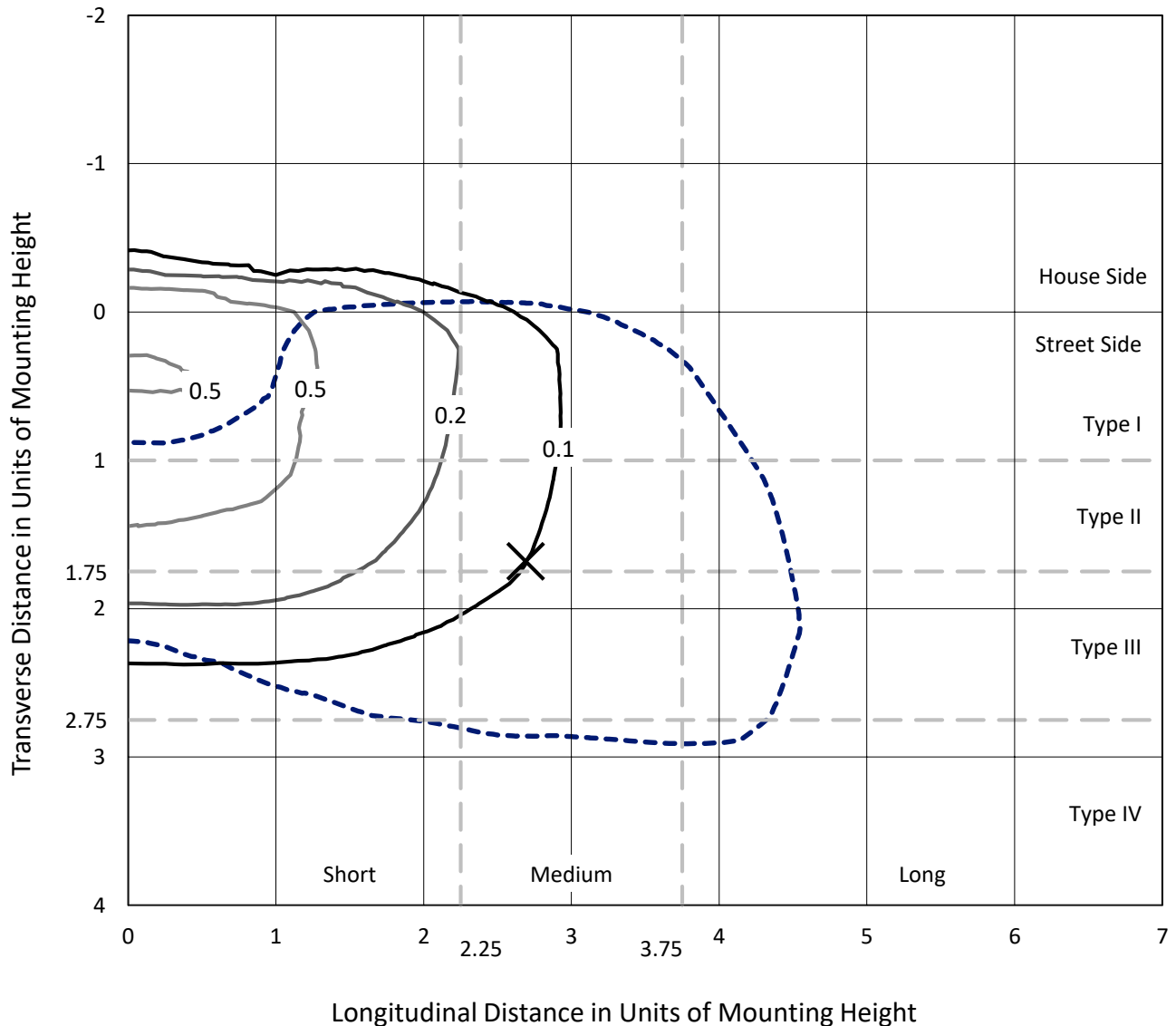


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

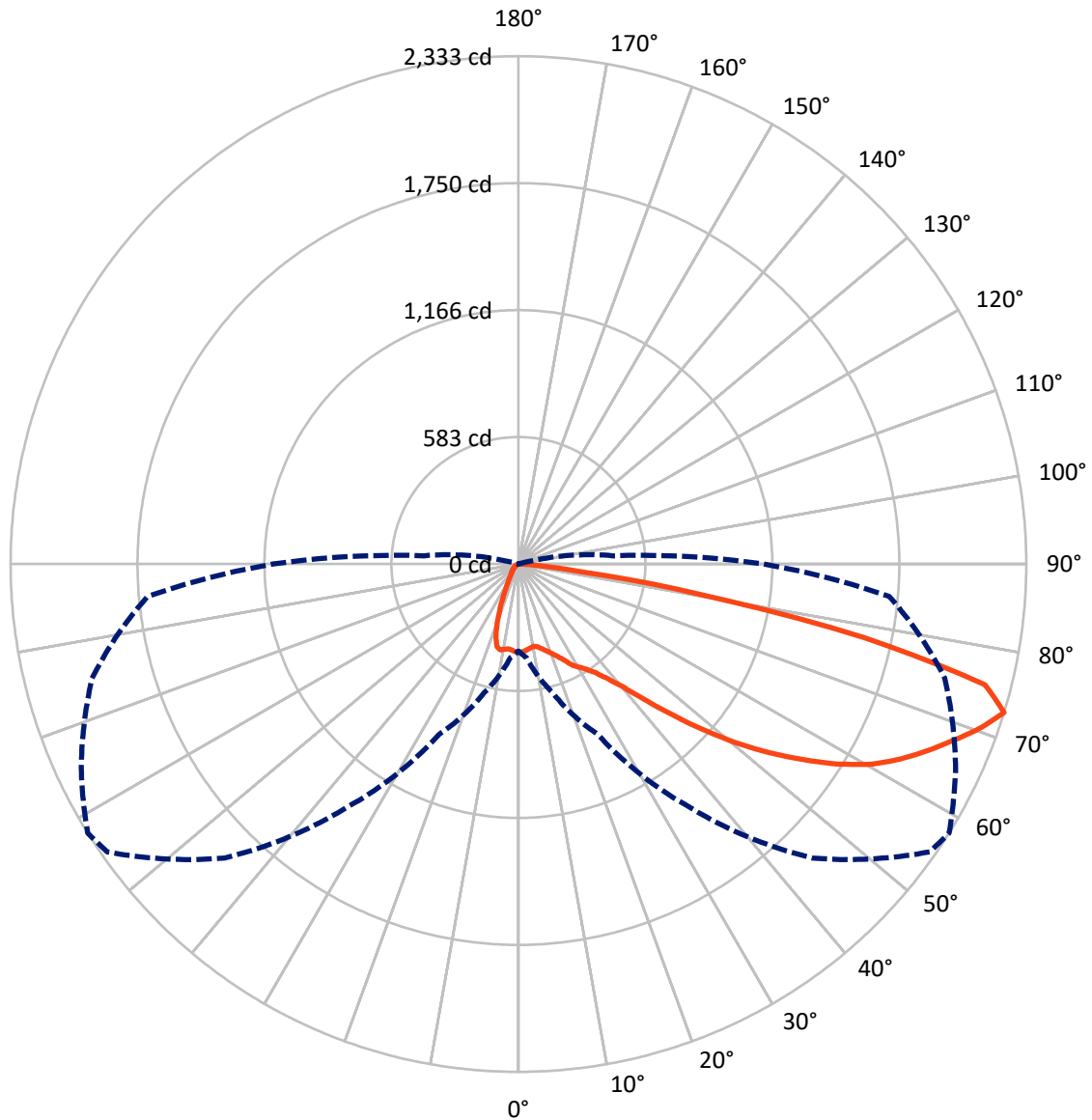


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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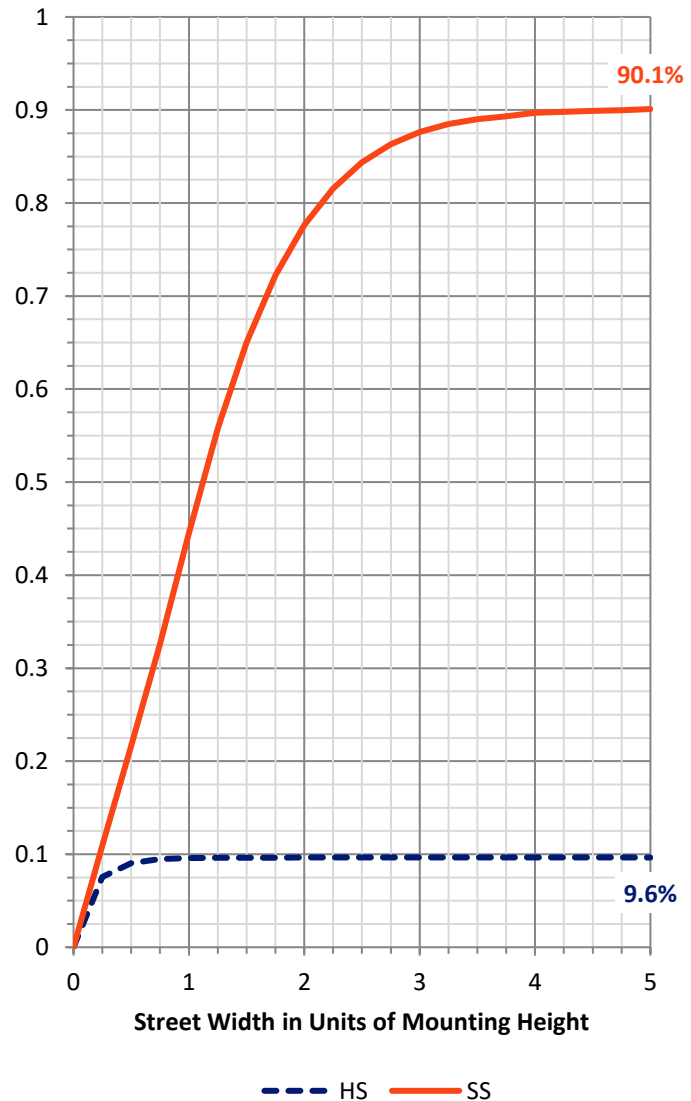
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.8	0.0	329.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3062.1	0.0	3062.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	3392.0	0.0	3392.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.1
10°-20°	97.3	2.9
20°-30°	152.8	4.5
30°-40°	263.6	7.8
40°-50°	501.5	14.8
50°-60°	794.2	23.4
60°-70°	926.7	27.3
70°-80°	580.4	17.1
80°-90°	38.1	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°	3392.0	100.0
0°-180°	3392.0	100.0



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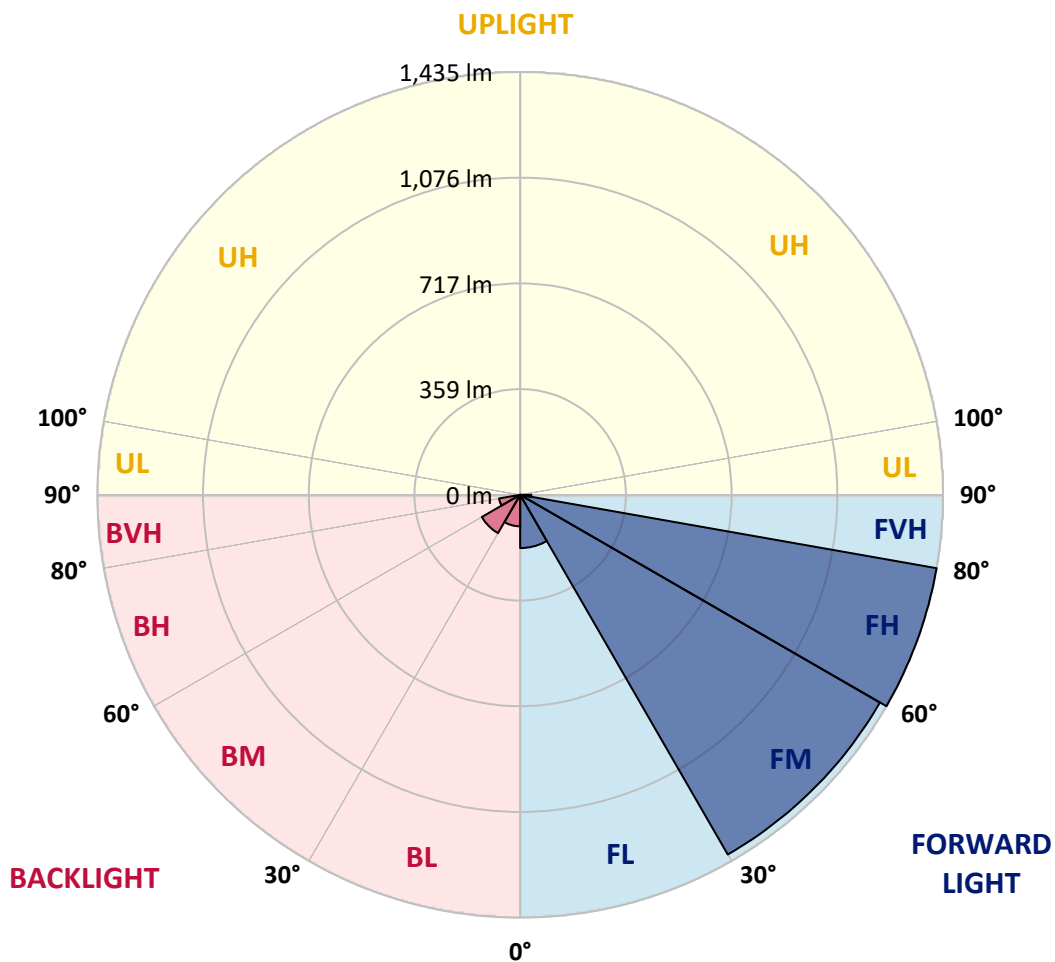
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.7	5.3			
FM	(30°-60°)	1409.2	41.5			
FH	(60°-80°)	1434.6	42.3			G1/1800
FVH	(80°-90°)	37.7	1.1			G1/100
BL	(0°-30°)	106.8	3.1	B0/110		
BM	(30°-60°)	150.1	4.4	B0/220		
BH	(60°-80°)	72.6	2.1	B0/110		G0/110
BVH	(80°-90°)	0.4	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0
2.5°	405.2	403.4	402.8	402.2	402.8	403.4	401.6	403.4	402.2	402.8	404.0
5°	390.6	388.8	388.2	388.8	390.6	393.7	394.9	396.7	396.7	398.5	399.1
7.5°	374.3	373.1	372.4	373.7	377.3	384.0	387.6	390.0	392.5	396.1	399.7
10°	365.2	364.6	364.0	365.8	369.4	375.5	380.3	384.0	393.1	403.4	410.1
12.5°	359.1	359.1	360.3	364.0	368.8	373.7	385.2	390.0	404.0	419.8	428.9
15°	354.2	354.2	356.1	362.7	369.4	380.9	397.9	403.4	419.8	439.2	451.3
17.5°	350.6	351.8	353.0	359.7	372.4	391.9	411.9	419.8	439.8	461.0	474.4
20°	351.2	352.4	353.0	359.7	377.9	404.6	430.1	439.2	462.2	484.7	498.0
22.5°	354.9	356.7	357.3	366.4	387.6	417.9	450.7	461.0	485.9	509.5	519.8
25°	370.0	371.2	367.6	375.5	401.6	438.6	477.4	488.3	513.2	535.0	543.5
27.5°	421.6	422.8	402.8	393.7	412.5	455.5	510.1	525.3	556.2	570.8	572.0
30°	533.2	534.4	495.0	451.9	438.6	470.1	528.3	549.6	589.6	606.0	598.7
32.5°	677.0	675.7	621.8	558.1	500.4	495.6	554.4	576.9	620.5	636.3	630.8
35°	821.3	823.1	777.0	681.2	598.7	543.5	587.8	613.9	666.6	689.1	679.4
37.5°	920.2	932.3	912.3	808.6	719.4	632.1	641.8	669.7	735.8	766.1	745.5
40°	1059.7	1056.7	1008.1	931.7	852.9	763.1	729.1	742.5	818.3	858.9	826.8
42.5°	1247.1	1241.1	1158.6	1084.0	996.0	922.6	853.5	851.0	912.9	960.2	913.5
45°	1417.0	1407.9	1351.5	1279.3	1182.8	1098.5	1005.1	983.9	1027.0	1067.0	1012.4
47.5°	1552.3	1537.1	1497.1	1458.8	1435.2	1304.2	1164.0	1131.9	1153.7	1183.4	1106.4
50°	1712.4	1670.5	1612.3	1589.3	1638.4	1537.1	1316.9	1286.0	1284.7	1301.7	1203.5
52.5°	1785.2	1709.4	1676.6	1696.0	1782.8	1753.6	1481.9	1437.6	1420.0	1421.8	1293.8
55°	1697.2	1688.7	1706.3	1767.0	1880.4	1863.4	1640.2	1585.6	1559.5	1526.8	1380.6
57.5°	1597.1	1623.2	1693.0	1808.8	2004.2	1978.1	1796.1	1734.2	1686.3	1611.1	1477.0
60°	1504.9	1531.6	1646.9	1818.5	2072.1	2088.5	1925.9	1867.1	1796.1	1697.2	1583.2
62.5°	1364.8	1385.4	1547.4	1804.6	2042.4	2152.8	2016.3	1972.0	1905.9	1779.1	1705.1
65°	1207.1	1220.5	1380.6	1693.0	1984.1	2145.5	2090.9	2066.0	2001.7	1864.6	1825.8
67.5°	1034.2	1050.0	1183.4	1492.2	1870.1	2111.5	2161.3	2158.8	2085.4	1959.3	1913.2
70°	835.3	836.5	946.9	1237.4	1671.1	2043.6	2248.6	2254.1	2165.5	2030.2	1916.8
72.5°	399.7	432.5	613.9	863.8	1358.1	1910.1	2305.6	2332.9	2215.9	2027.8	1710.0
75°	91.6	94.6	178.9	410.7	796.4	1466.1	2163.1	2214.0	2093.3	1753.6	1204.7
77.5°	33.4	35.2	50.3	120.1	306.3	757.6	1548.0	1622.6	1547.4	1133.7	569.6
80°	22.4	21.8	26.1	53.4	140.7	214.7	791.6	835.9	763.1	387.0	136.5
82.5°	11.5	12.1	18.2	29.7	94.6	74.6	264.5	287.5	236.6	77.6	25.5
85°	5.5	5.5	10.3	18.8	40.0	26.1	58.8	71.0	63.7	34.0	8.5
87.5°	5.5	5.5	9.7	12.1	20.6	10.9	14.6	18.2	17.0	18.2	3.0
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°	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0	407.0
2.5°	404.0	403.4	402.8	404.0	403.4	404.6	404.6	405.8	405.8	404.6	404.0
5°	398.5	397.3	396.1	396.1	395.5	396.7	400.3	403.4	404.0	402.2	401.6
7.5°	399.1	399.1	397.9	395.5	391.2	391.2	391.2	394.9	396.7	395.5	394.9
10°	410.1	410.7	407.6	402.2	394.9	388.2	375.5	356.7	339.1	334.2	332.4
12.5°	428.9	429.5	423.4	413.7	398.5	359.1	310.6	265.7	231.1	221.4	219.6
15°	451.3	451.9	441.0	425.2	379.1	287.5	215.3	164.4	134.1	126.8	126.2
17.5°	474.4	473.1	456.8	426.4	321.5	203.8	131.0	104.9	97.1	95.2	95.8
20°	496.8	493.2	470.7	404.0	247.5	133.4	95.8	89.8	88.0	86.7	86.7
22.5°	517.4	510.1	482.2	359.7	173.5	95.8	85.5	84.3	81.9	80.1	79.5
25°	538.0	527.7	489.5	302.1	116.5	83.7	80.7	78.2	75.2	72.8	72.2
27.5°	562.9	548.4	485.9	229.3	87.3	77.6	75.2	71.6	67.3	63.7	62.5
30°	586.6	570.2	465.3	158.3	74.6	71.6	67.9	62.5	57.0	52.8	51.6
32.5°	616.3	597.5	428.2	103.7	64.9	62.5	58.8	52.2	44.9	40.0	38.8
35°	658.8	637.5	380.9	72.8	57.0	52.8	47.9	40.6	32.8	29.1	28.5
37.5°	718.2	689.7	321.5	58.8	50.3	44.3	37.0	29.7	24.3	21.2	20.6
40°	791.0	747.3	255.4	52.2	44.9	37.0	27.9	21.2	17.6	15.2	15.2
42.5°	869.8	801.3	188.0	47.9	39.4	30.3	20.6	15.2	12.7	11.5	10.9
45°	951.1	849.2	126.8	44.3	34.6	23.1	14.6	10.3	8.5	8.5	7.9
47.5°	1035.4	881.4	81.9	40.0	29.1	17.0	9.7	7.3	6.1	6.1	6.1
50°	1119.2	898.4	58.2	36.4	23.7	11.5	7.3	5.5	4.9	4.9	4.9
52.5°	1179.8	887.4	46.7	31.5	18.2	8.5	5.5	4.2	3.6	3.6	3.6
55°	1232.6	868.6	40.6	27.3	13.3	6.1	4.2	3.6	3.0	3.0	3.0
57.5°	1286.6	844.4	36.4	23.1	9.7	4.2	3.0	2.4	2.4	2.4	2.4
60°	1335.7	803.1	31.5	18.2	6.7	3.0	2.4	1.8	1.8	1.8	1.8
62.5°	1383.6	767.9	27.3	14.0	4.9	2.4	1.2	1.2	0.6	0.6	0.6
65°	1410.9	720.6	21.8	9.1	3.0	1.8	0.6	0.6	0.0	0.0	0.0
67.5°	1402.4	664.2	15.2	5.5	1.8	1.2	0.6	0.0	0.0	0.0	0.0
70°	1343.6	588.4	9.1	3.0	1.8	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	1125.2	435.5	5.5	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0
75°	751.6	200.2	3.0	1.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	343.9	60.1	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.2	15.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.6	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	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)