

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: P397702

Luminaire Tested: **ARCH-S-PA1-30-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397702
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-PA1-30-740-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 3393 lumens
Efficiency: N/A
Efficacy: 109.5 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

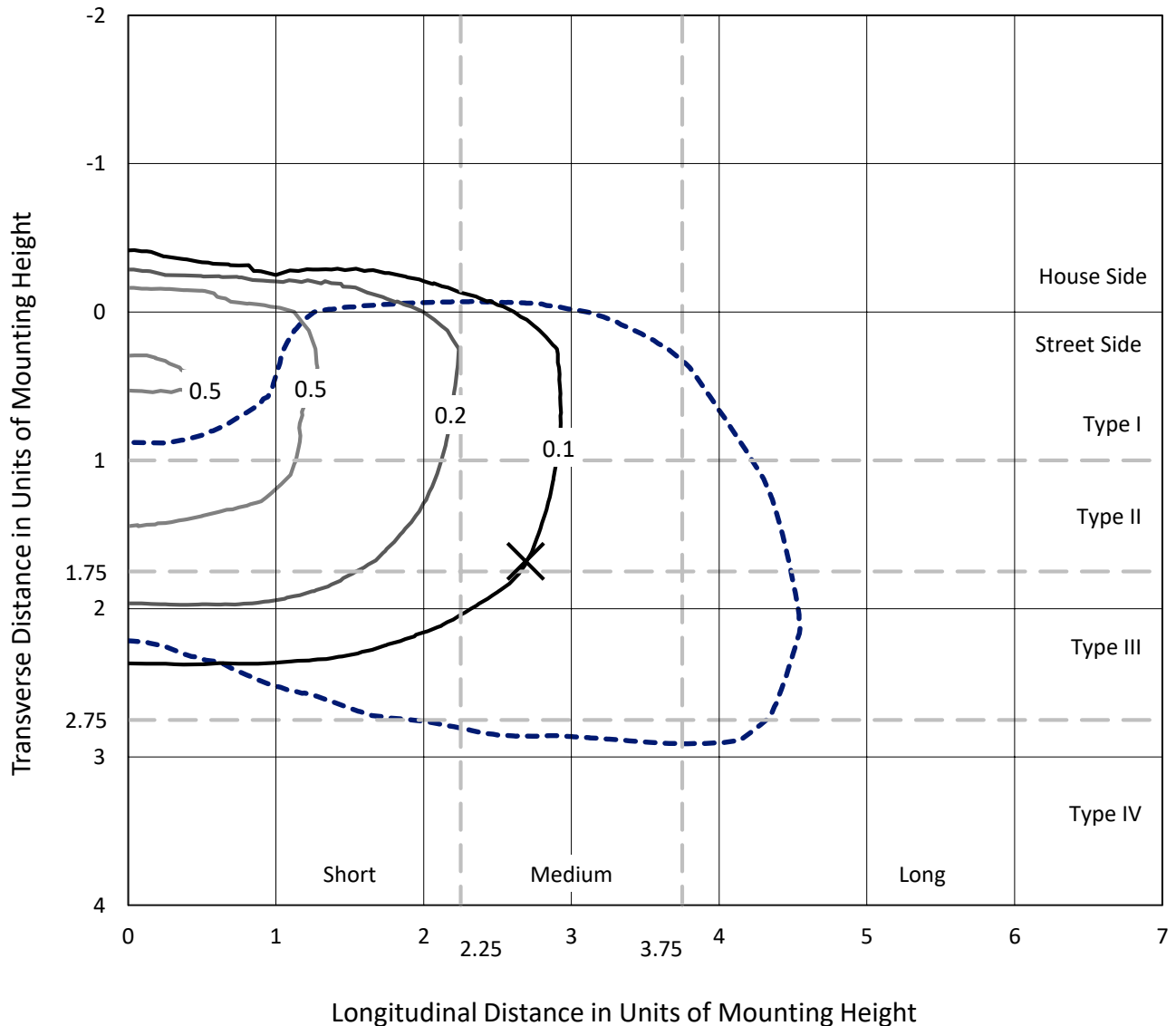


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

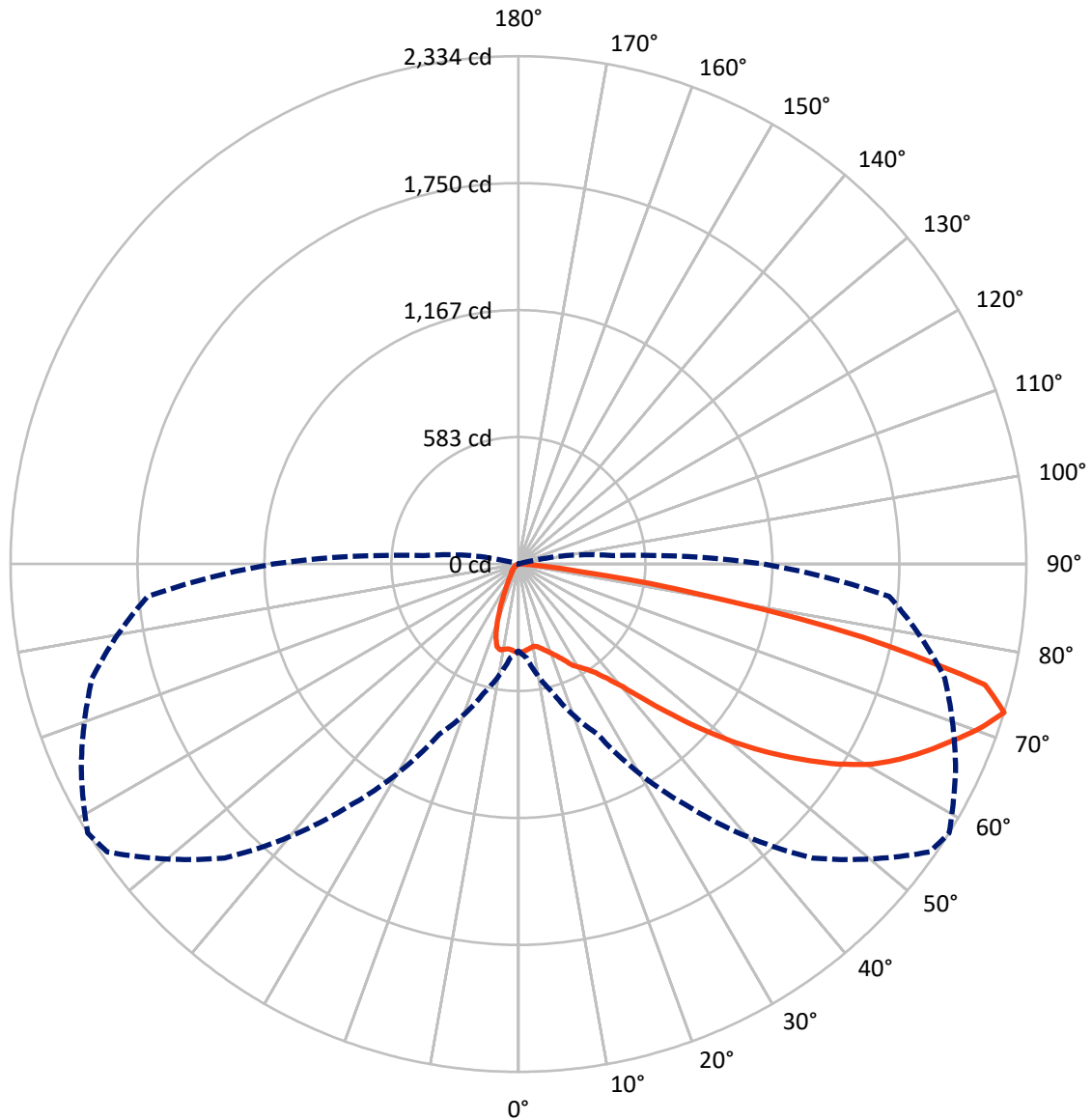


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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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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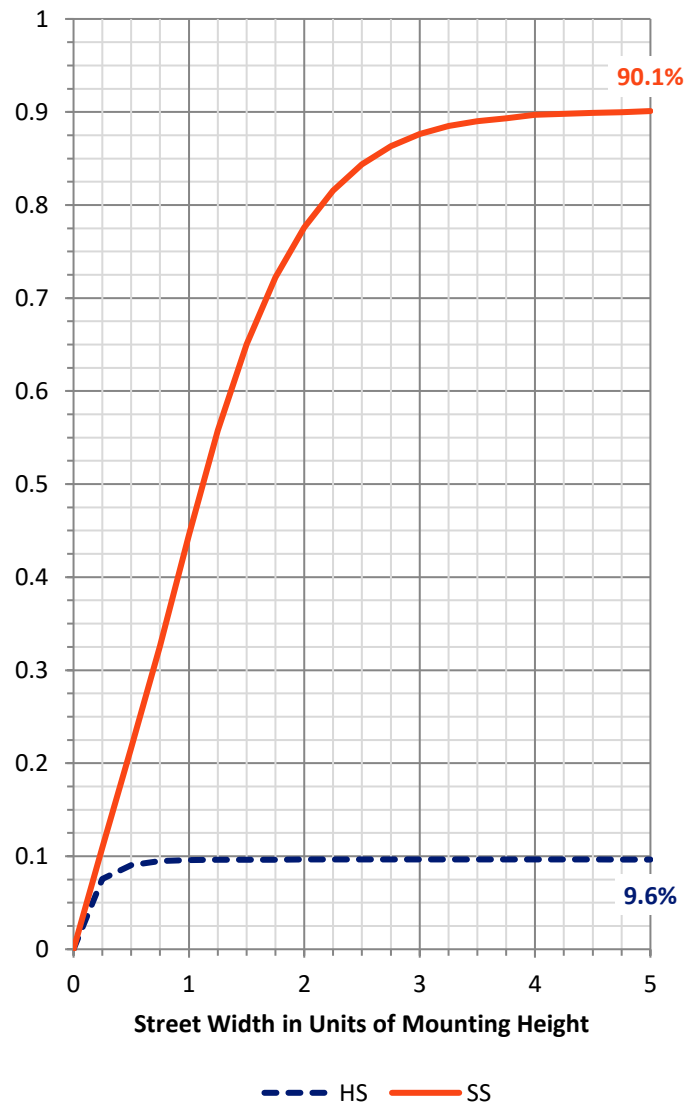
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	329.9	0.0	329.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3063.1	0.0	3063.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	3393.0	0.0	3393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	1.1
10°-20°	97.3	2.9
20°-30°	152.9	4.5
30°-40°	263.7	7.8
40°-50°	501.6	14.8
50°-60°	794.4	23.4
60°-70°	927.0	27.3
70°-80°	580.6	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°	3393.0	100.0
0°-180°	3393.0	100.0

Coefficient of Utilization



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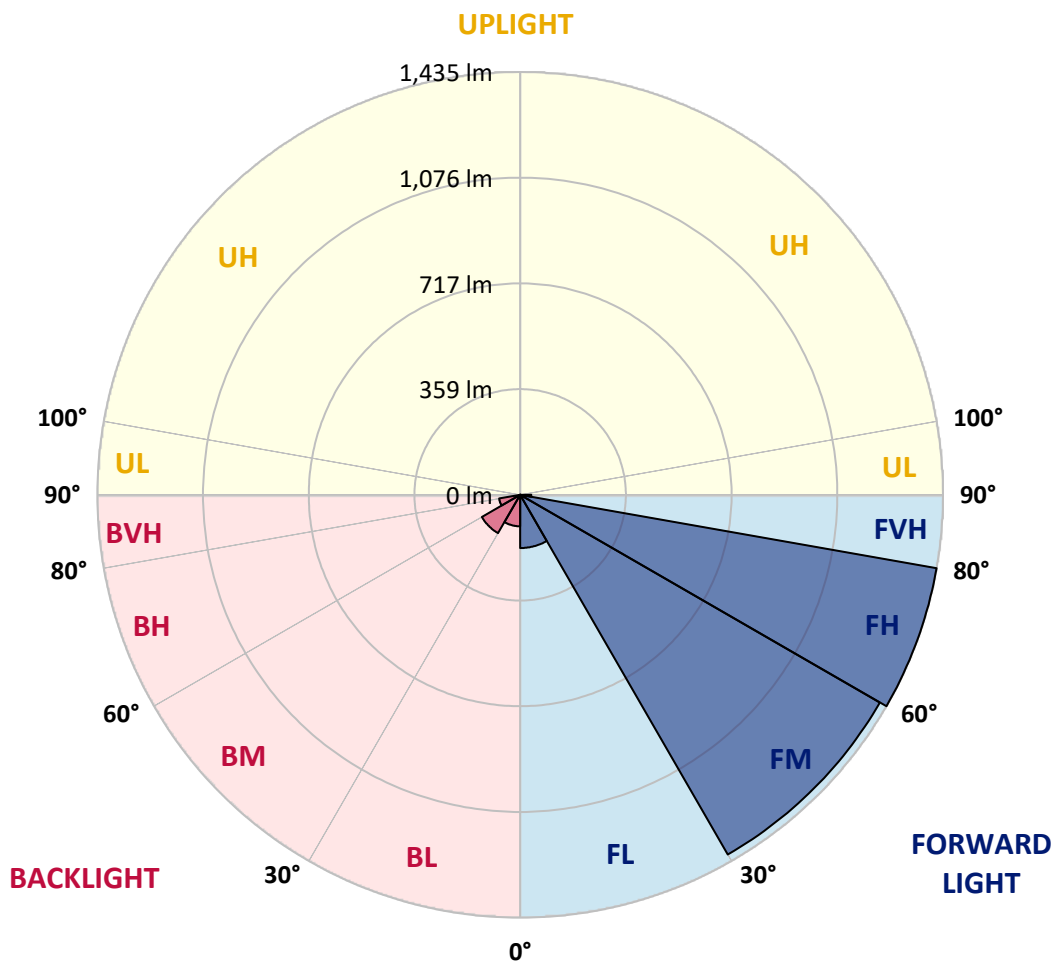
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.7	5.3			
FM	(30°-60°)	1409.6	41.5			
FH	(60°-80°)	1435.0	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°	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1
2.5°	405.3	403.5	402.9	402.3	402.9	403.5	401.7	403.5	402.3	402.9	404.1
5°	390.8	388.9	388.3	388.9	390.8	393.8	395.0	396.8	396.8	398.6	399.3
7.5°	374.4	373.2	372.6	373.8	377.4	384.1	387.7	390.1	392.6	396.2	399.9
10°	365.3	364.7	364.1	365.9	369.5	375.6	380.4	384.1	393.2	403.5	410.2
12.5°	359.2	359.2	360.4	364.1	368.9	373.8	385.3	390.1	404.1	419.9	429.0
15°	354.4	354.4	356.2	362.8	369.5	381.0	398.0	403.5	419.9	439.3	451.4
17.5°	350.7	351.9	353.1	359.8	372.6	392.0	412.0	419.9	439.9	461.1	474.5
20°	351.3	352.5	353.1	359.8	378.0	404.7	430.2	439.3	462.4	484.8	498.2
22.5°	355.0	356.8	357.4	366.5	387.7	418.1	450.8	461.1	486.0	509.7	520.0
25°	370.1	371.3	367.7	375.6	401.7	438.7	477.5	488.4	513.3	535.2	543.7
27.5°	421.7	422.9	402.9	393.8	412.6	455.7	510.3	525.5	556.4	571.0	572.2
30°	533.3	534.6	495.1	452.0	438.7	470.2	528.5	549.7	589.8	606.2	598.9
32.5°	677.1	675.9	621.9	558.2	500.6	495.7	554.6	577.0	620.7	636.5	631.0
35°	821.6	823.4	777.3	681.4	598.9	543.7	588.0	614.0	666.8	689.3	679.6
37.5°	920.5	932.6	912.6	808.8	719.6	632.2	642.0	669.9	736.0	766.3	745.7
40°	1060.0	1057.0	1008.4	932.0	853.1	763.3	729.3	742.7	818.5	859.2	827.0
42.5°	1247.5	1241.4	1158.9	1084.3	996.3	922.9	853.7	851.3	913.2	960.5	913.8
45°	1417.4	1408.3	1351.9	1279.7	1183.2	1098.9	1005.4	984.2	1027.3	1067.3	1012.7
47.5°	1552.7	1537.5	1497.5	1459.3	1435.6	1304.5	1164.4	1132.2	1154.1	1183.8	1106.7
50°	1712.9	1671.0	1612.8	1589.7	1638.9	1537.5	1317.3	1286.3	1285.1	1302.1	1203.8
52.5°	1785.7	1709.9	1677.1	1696.5	1783.3	1754.2	1482.3	1438.0	1420.4	1422.3	1294.2
55°	1697.7	1689.2	1706.8	1767.5	1881.0	1864.0	1640.7	1586.1	1560.0	1527.2	1381.0
57.5°	1597.6	1623.7	1693.5	1809.4	2004.8	1978.7	1796.6	1734.7	1686.8	1611.6	1477.5
60°	1505.4	1532.1	1647.4	1819.1	2072.7	2089.1	1926.5	1867.6	1796.6	1697.7	1583.7
62.5°	1365.2	1385.9	1547.9	1805.1	2043.0	2153.4	2016.9	1972.6	1906.5	1779.6	1705.6
65°	1207.5	1220.8	1381.0	1693.5	1984.7	2146.1	2091.5	2066.6	2002.3	1865.2	1826.4
67.5°	1034.5	1050.3	1183.8	1492.6	1870.7	2112.1	2161.9	2159.5	2086.1	1959.9	1913.7
70°	835.5	836.7	947.2	1237.8	1671.6	2044.2	2249.3	2254.7	2166.2	2030.8	1917.4
72.5°	399.9	432.6	614.0	864.0	1358.5	1910.7	2306.3	2333.6	2216.5	2028.4	1710.5
75°	91.6	94.7	179.0	410.8	796.7	1466.6	2163.7	2214.7	2093.9	1754.2	1205.0
77.5°	33.4	35.2	50.4	120.1	306.4	757.8	1548.5	1623.1	1547.9	1134.0	569.8
80°	22.5	21.8	26.1	53.4	140.8	214.8	791.8	836.1	763.3	387.1	136.5
82.5°	11.5	12.1	18.2	29.7	94.7	74.6	264.5	287.6	236.6	77.7	25.5
85°	5.5	5.5	10.3	18.8	40.0	26.1	58.9	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°	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1	407.1
2.5°	404.1	403.5	402.9	404.1	403.5	404.7	404.7	405.9	405.9	404.7	404.1
5°	398.6	397.4	396.2	396.2	395.6	396.8	400.5	403.5	404.1	402.3	401.7
7.5°	399.3	399.3	398.0	395.6	391.4	391.4	391.4	395.0	396.8	395.6	395.0
10°	410.2	410.8	407.7	402.3	395.0	388.3	375.6	356.8	339.2	334.3	332.5
12.5°	429.0	429.6	423.5	413.8	398.6	359.2	310.7	265.8	231.2	221.5	219.6
15°	451.4	452.0	441.1	425.3	379.2	287.6	215.4	164.4	134.1	126.8	126.2
17.5°	474.5	473.3	456.9	426.6	321.6	203.9	131.1	105.0	97.1	95.3	95.9
20°	496.9	493.3	470.8	404.1	247.6	133.5	95.9	89.8	88.0	86.8	86.8
22.5°	517.6	510.3	482.4	359.8	173.5	95.9	85.6	84.3	81.9	80.1	79.5
25°	538.2	527.9	489.7	302.2	116.5	83.7	80.7	78.3	75.2	72.8	72.2
27.5°	563.1	548.5	486.0	229.4	87.4	77.7	75.2	71.6	67.4	63.7	62.5
30°	586.7	570.4	465.4	158.4	74.6	71.6	68.0	62.5	57.0	52.8	51.6
32.5°	616.5	597.7	428.4	103.8	64.9	62.5	58.9	52.2	44.9	40.0	38.8
35°	658.9	637.7	381.0	72.8	57.0	52.8	47.9	40.7	32.8	29.1	28.5
37.5°	718.4	689.9	321.6	58.9	50.4	44.3	37.0	29.7	24.3	21.2	20.6
40°	791.2	747.5	255.4	52.2	44.9	37.0	27.9	21.2	17.6	15.2	15.2
42.5°	870.1	801.5	188.1	47.9	39.4	30.3	20.6	15.2	12.7	11.5	10.9
45°	951.4	849.5	126.8	44.3	34.6	23.1	14.6	10.3	8.5	8.5	7.9
47.5°	1035.7	881.6	81.9	40.0	29.1	17.0	9.7	7.3	6.1	6.1	6.1
50°	1119.5	898.6	58.2	36.4	23.7	11.5	7.3	5.5	4.9	4.9	4.9
52.5°	1180.2	887.7	46.7	31.6	18.2	8.5	5.5	4.2	3.6	3.6	3.6
55°	1232.9	868.9	40.7	27.3	13.3	6.1	4.2	3.6	3.0	3.0	3.0
57.5°	1286.9	844.6	36.4	23.1	9.7	4.2	3.0	2.4	2.4	2.4	2.4
60°	1336.1	803.4	31.6	18.2	6.7	3.0	2.4	1.8	1.8	1.8	1.8
62.5°	1384.0	768.2	27.3	14.0	4.9	2.4	1.2	1.2	0.6	0.6	0.6
65°	1411.3	720.8	21.8	9.1	3.0	1.8	0.6	0.6	0.0	0.0	0.0
67.5°	1402.8	664.4	15.2	5.5	1.8	1.2	0.6	0.0	0.0	0.0	0.0
70°	1344.0	588.6	9.1	3.0	1.8	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	1125.5	435.7	5.5	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0
75°	751.8	200.2	3.0	1.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	344.0	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)