

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: P573089

Luminaire Tested: **ARCH-S-PA2-30-750-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

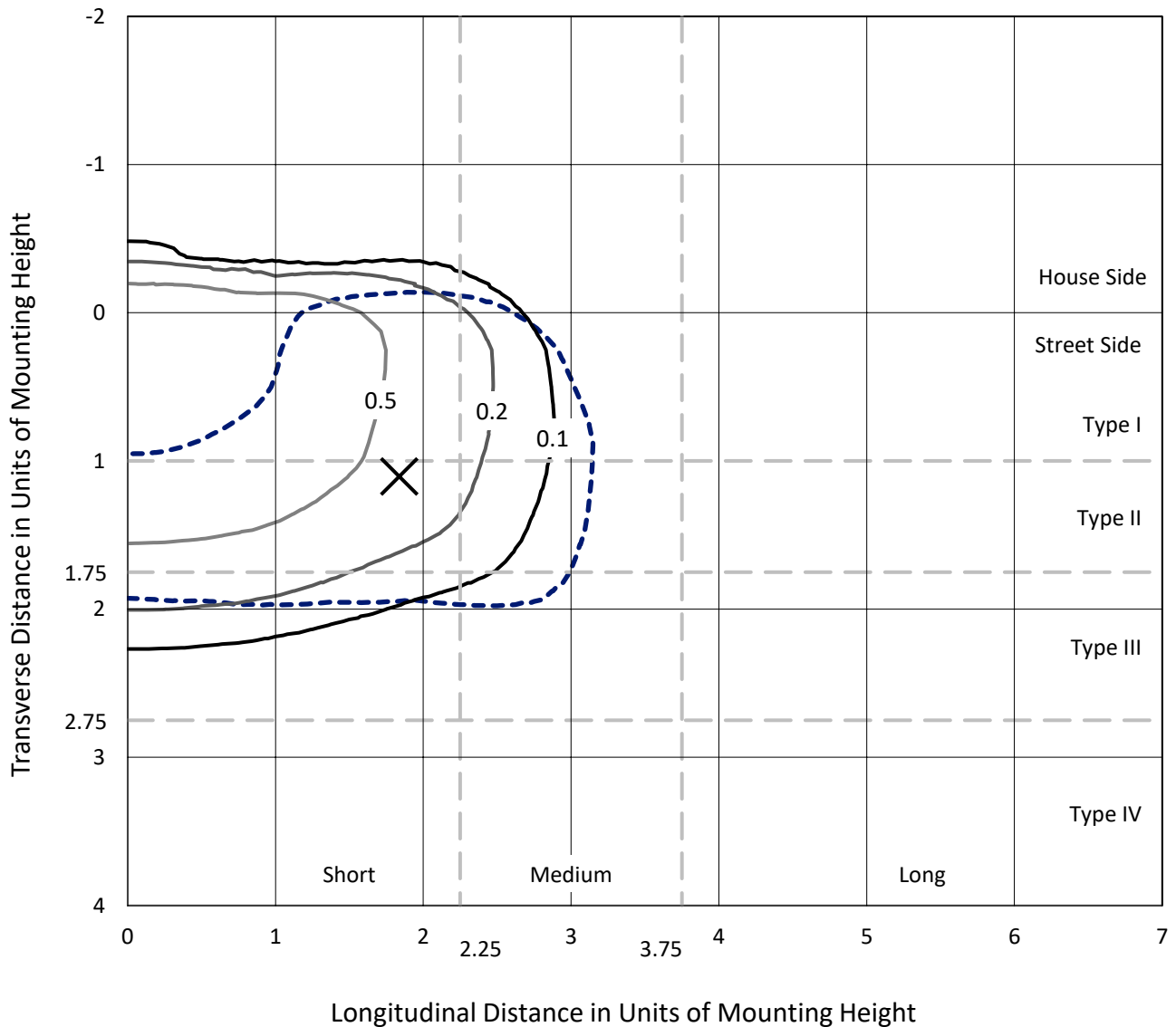
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573089
 CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

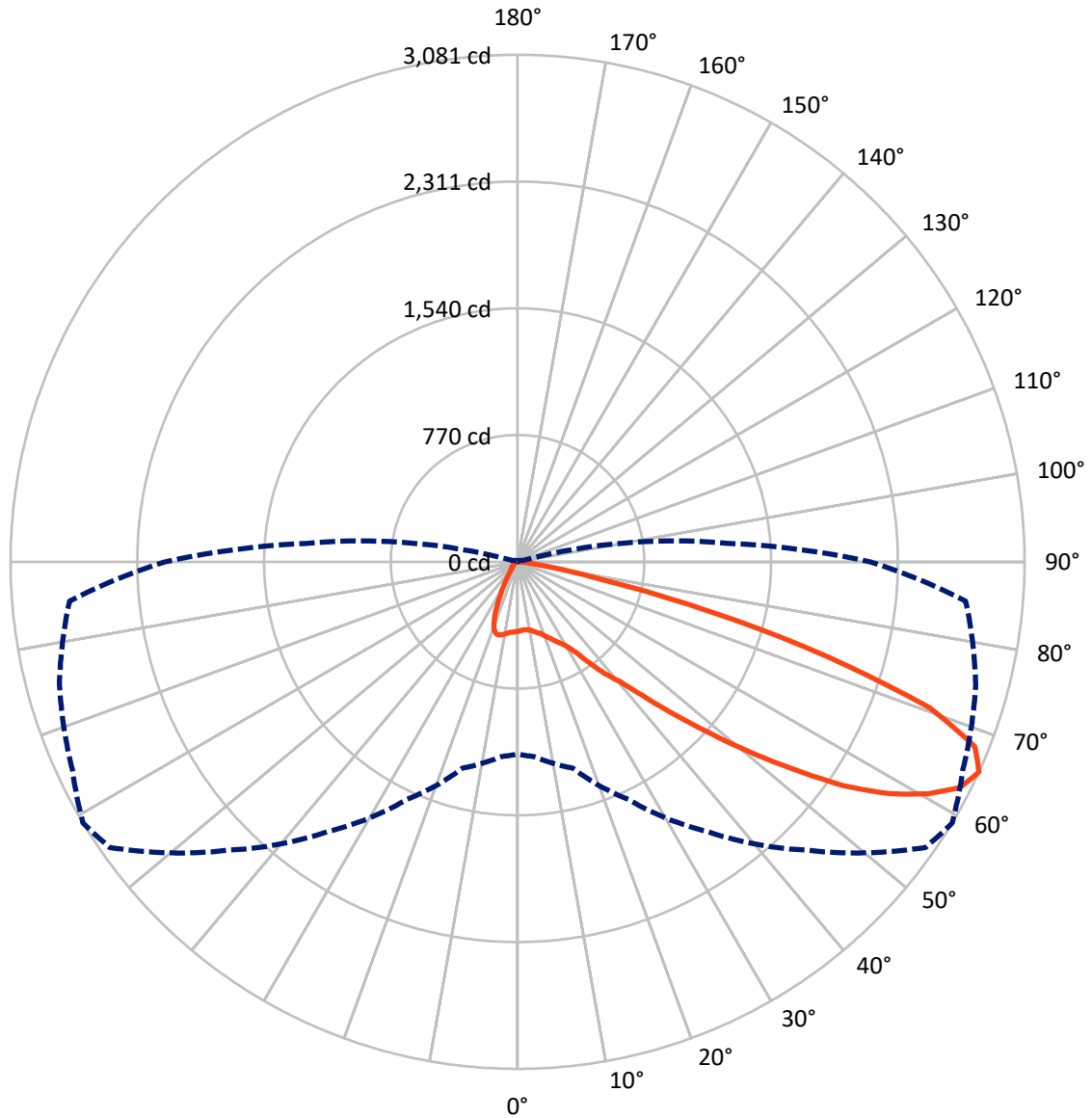
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P573089
CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P573089
 CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

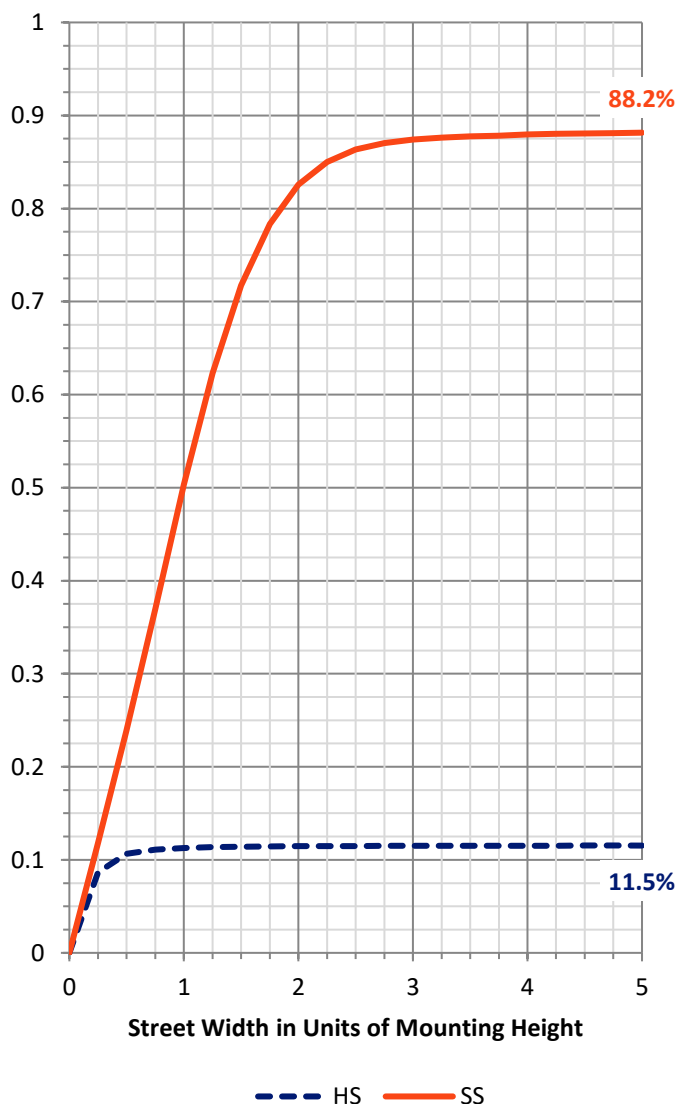
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.4	0.0	455.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	3448.6	0.0	3448.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	3904.0	0.0	3904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.0
10°-20°	113.3	2.9
20°-30°	192.4	4.9
30°-40°	340.7	8.7
40°-50°	642.8	16.5
50°-60°	1087.5	27.9
60°-70°	1130.7	29.0
70°-80°	339.1	8.7
80°-90°	17.8	0.5
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°	3904.0	100.0
0°-180°	3904.0	100.0

Coefficient of Utilization



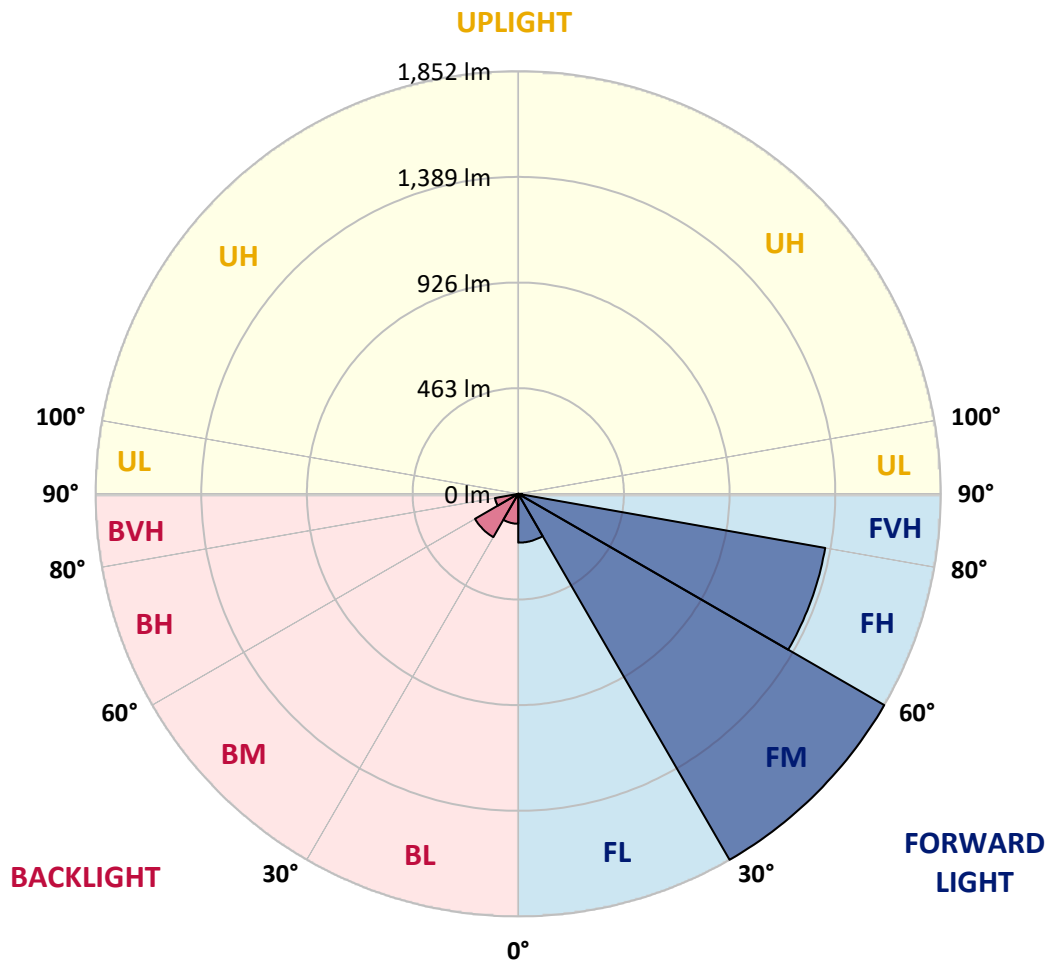
REPORT NUMBER: P573089
 CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.1	5.5			
FM (30°-60°)	1852.1	47.4			
FH (60°-80°)	1366.1	35.0			G1/1800
FVH (80°-90°)	16.3	0.4			G1/100
BL (0°-30°)	131.4	3.4	B1/500		
BM (30°-60°)	218.9	5.6	B0/220		
BH (60°-80°)	103.6	2.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G1

Type III Short





REPORT NUMBER: P573089

CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9
2.5°	410.5	409.1	409.1	411.9	413.3	414.8	417.6	417.6	417.6	420.4	421.9
5°	390.6	390.6	392.0	394.9	400.6	404.8	413.3	414.8	416.2	423.3	426.1
7.5°	377.8	377.8	379.3	384.9	392.0	402.0	413.3	416.2	420.4	430.4	437.5
10°	376.4	375.0	377.8	383.5	392.0	404.8	417.6	421.9	430.4	443.2	453.1
12.5°	380.7	379.3	382.1	387.8	396.3	409.1	426.1	433.2	443.2	460.2	474.4
15°	383.5	382.1	384.9	392.0	402.0	417.6	437.5	446.0	458.8	482.9	497.1
17.5°	392.0	390.6	392.0	397.7	407.7	424.7	450.3	458.8	480.1	507.1	522.7
20°	430.4	429.0	420.4	417.6	419.0	434.6	467.3	481.5	507.1	541.2	552.5
22.5°	509.9	504.3	488.6	463.1	446.0	451.7	488.6	504.3	538.3	576.7	585.2
25°	616.5	612.2	589.5	545.4	497.1	482.9	512.8	534.1	575.3	617.9	615.0
27.5°	737.2	728.7	707.4	646.3	581.0	534.1	542.6	561.1	606.5	652.0	637.8
30°	842.3	839.5	815.3	764.2	687.5	617.9	588.1	598.0	639.2	687.5	670.4
32.5°	938.9	930.4	910.5	862.2	791.2	720.2	660.5	660.5	694.6	751.4	725.8
35°	1045.4	1039.8	1015.6	967.3	899.1	815.3	761.3	755.7	784.1	848.0	792.6
37.5°	1154.8	1140.6	1129.2	1079.5	1011.3	938.9	873.6	860.8	875.0	921.9	853.7
40°	1291.2	1291.2	1265.6	1220.1	1156.2	1079.5	988.6	955.9	951.7	1012.8	960.2
42.5°	1450.3	1446.0	1424.7	1382.1	1321.0	1250.0	1134.9	1105.1	1102.2	1176.1	1113.6
45°	1633.5	1630.6	1605.1	1569.6	1527.0	1448.8	1335.2	1305.4	1288.3	1373.6	1299.7
47.5°	1801.1	1791.2	1782.6	1786.9	1762.7	1674.7	1568.1	1532.6	1531.2	1598.0	1502.8
50°	1916.2	1910.5	1940.3	1968.7	2014.2	1958.8	1832.3	1801.1	1777.0	1865.0	1714.5
52.5°	1991.4	1988.6	2048.3	2129.2	2223.0	2218.7	2106.5	2088.0	2068.1	2092.3	1903.4
55°	2021.3	2021.3	2092.3	2241.4	2406.2	2477.2	2424.7	2399.1	2329.5	2279.8	2110.8
57.5°	1985.8	1981.5	2073.8	2268.4	2519.8	2666.1	2688.9	2659.0	2549.7	2494.3	2340.9
60°	1835.2	1838.0	1947.4	2193.1	2511.3	2742.8	2889.1	2862.2	2752.8	2670.4	2534.0
62.5°	1553.9	1578.1	1693.1	1960.2	2329.5	2681.8	3004.2	3018.4	2900.5	2798.2	2705.9
65°	1167.6	1188.9	1298.3	1593.7	1998.5	2477.2	3025.5	3080.9	2985.7	2882.0	2732.9
67.5°	710.2	717.3	850.8	1073.8	1471.6	2063.9	2876.4	2997.1	2928.9	2758.5	2465.9
70°	331.0	349.4	414.8	586.6	931.8	1519.9	2485.7	2656.2	2579.5	2367.8	1875.0
72.5°	129.3	134.9	176.1	271.3	494.3	955.9	1855.1	1968.7	1916.2	1681.8	1117.9
75°	63.9	68.2	85.2	129.3	225.8	394.9	1133.5	1207.4	1120.7	845.2	473.0
77.5°	46.9	46.9	56.8	79.5	123.6	146.3	477.3	535.5	505.7	326.7	129.3
80°	31.2	34.1	39.8	54.0	78.1	71.0	180.4	214.5	179.0	100.9	45.5
82.5°	18.5	19.9	29.8	38.4	52.6	41.2	61.1	68.2	73.9	49.7	21.3
85°	9.9	9.9	19.9	28.4	28.4	18.5	21.3	24.1	28.4	29.8	11.4
87.5°	2.8	2.8	12.8	17.0	11.4	9.9	11.4	11.4	12.8	15.6	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573089

CATALOG NUMBER: ARCH-S-PA2-30-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9	421.9
2.5°	423.3	423.3	424.7	424.7	426.1	426.1	426.1	426.1	427.5	429.0	429.0
5°	427.5	429.0	429.0	429.0	429.0	426.1	424.7	423.3	423.3	424.7	424.7
7.5°	438.9	440.3	438.9	436.1	431.8	426.1	420.4	420.4	419.0	420.4	419.0
10°	456.0	456.0	454.5	447.4	440.3	429.0	417.6	409.1	403.4	402.0	399.1
12.5°	477.3	477.3	473.0	460.2	447.4	426.1	396.3	367.9	345.2	335.2	332.4
15°	498.6	498.6	492.9	474.4	448.9	397.7	335.2	275.6	241.5	227.3	218.7
17.5°	524.1	521.3	511.4	485.8	433.2	340.9	240.1	179.0	152.0	139.2	139.2
20°	551.1	548.3	529.8	487.2	393.5	244.3	156.2	123.6	116.5	113.6	113.6
22.5°	581.0	573.9	545.4	475.8	309.7	166.2	117.9	109.4	106.5	105.1	105.1
25°	605.1	593.7	556.8	444.6	221.6	116.5	103.7	100.9	95.2	93.7	90.9
27.5°	623.6	606.5	561.1	377.8	146.3	96.6	92.3	86.6	81.0	75.3	75.3
30°	647.7	626.4	563.9	294.0	99.4	83.8	79.5	72.4	65.3	59.7	59.7
32.5°	696.0	664.8	565.3	206.0	82.4	73.9	65.3	56.8	49.7	46.9	45.5
35°	748.6	706.0	549.7	133.5	72.4	62.5	52.6	45.5	38.4	36.9	36.9
37.5°	806.8	767.0	515.6	90.9	63.9	52.6	42.6	35.5	31.2	29.8	29.8
40°	904.8	857.9	458.8	72.4	55.4	44.0	35.5	29.8	27.0	25.6	25.6
42.5°	1045.4	964.5	387.8	62.5	48.3	36.9	28.4	24.1	22.7	21.3	21.3
45°	1207.4	1083.8	305.4	56.8	42.6	31.2	24.1	21.3	19.9	18.5	18.5
47.5°	1393.4	1207.4	241.5	49.7	36.9	27.0	21.3	18.5	17.0	15.6	15.6
50°	1569.6	1303.9	181.8	44.0	32.7	22.7	18.5	17.0	15.6	14.2	14.2
52.5°	1714.5	1369.3	137.8	38.4	28.4	19.9	17.0	15.6	12.8	12.8	12.8
55°	1889.2	1420.4	105.1	34.1	25.6	18.5	15.6	12.8	11.4	9.9	9.9
57.5°	2041.1	1438.9	76.7	29.8	22.7	17.0	14.2	11.4	8.5	7.1	7.1
60°	2143.4	1423.3	55.4	25.6	19.9	14.2	11.4	8.5	5.7	4.3	4.3
62.5°	2215.9	1389.2	42.6	22.7	17.0	12.8	9.9	7.1	4.3	2.8	2.8
65°	2143.4	1284.1	34.1	19.9	14.2	11.4	7.1	5.7	2.8	1.4	1.4
67.5°	1853.7	1076.7	27.0	17.0	12.8	9.9	7.1	4.3	1.4	0.0	0.0
70°	1332.4	768.4	22.7	15.6	11.4	8.5	5.7	2.8	1.4	0.0	0.0
72.5°	742.9	396.3	21.3	14.2	11.4	8.5	5.7	2.8	1.4	0.0	0.0
75°	301.1	136.4	19.9	14.2	11.4	7.1	5.7	2.8	1.4	0.0	0.0
77.5°	88.1	46.9	17.0	12.8	11.4	8.5	5.7	2.8	1.4	0.0	0.0
80°	31.2	21.3	12.8	11.4	8.5	7.1	5.7	4.3	1.4	0.0	0.0
82.5°	14.2	8.5	5.7	4.3	4.3	4.3	4.3	2.8	1.4	0.0	0.0
85°	5.7	4.3	2.8	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	4.3	2.8	1.4	1.4	1.4	1.4	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)