

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: P588591

Luminaire Tested: **ARC-CA6-120-730-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-120-730-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5033 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

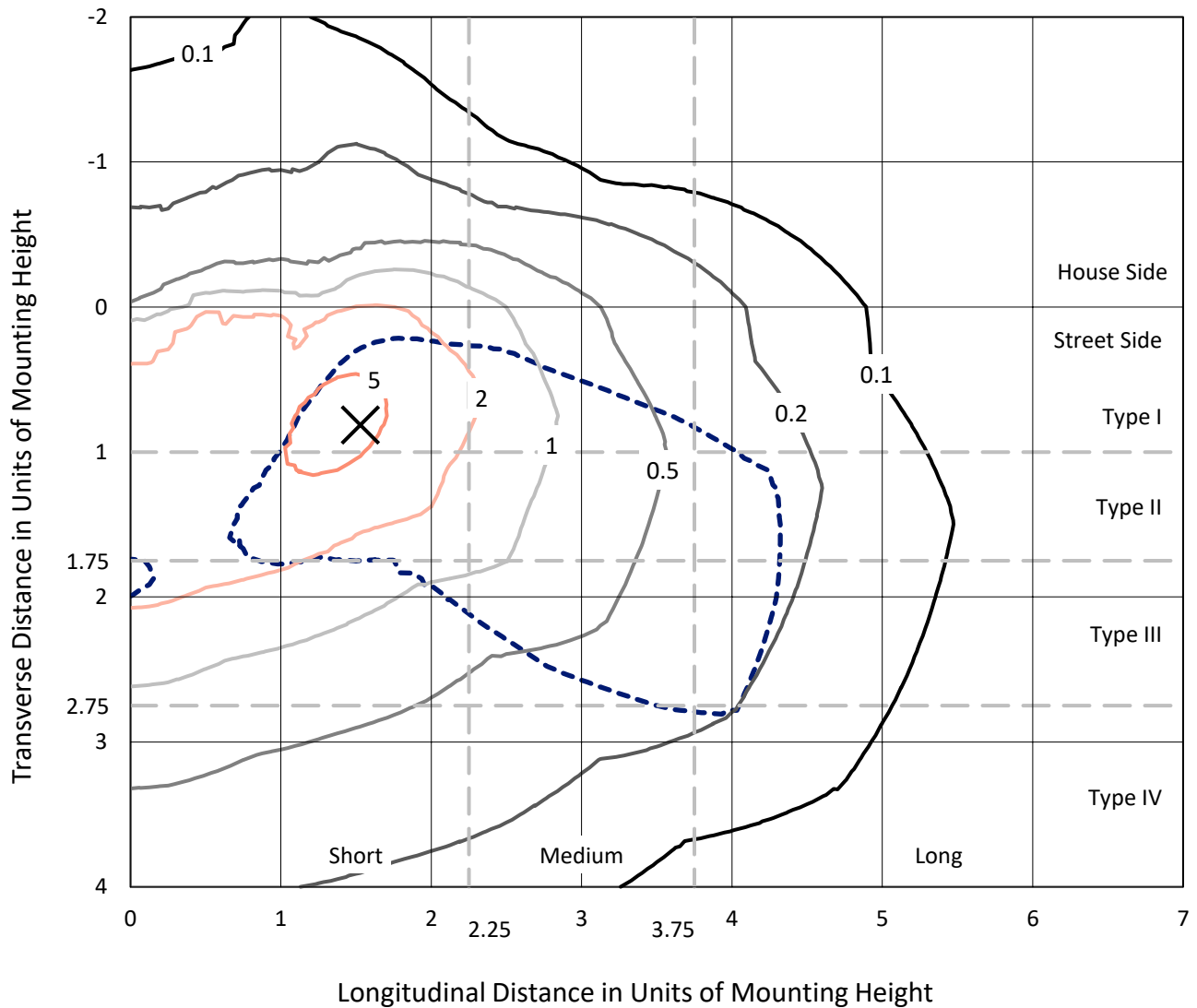
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588591
 CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

Iso-Footcandle Lines of Horizontal Illumination

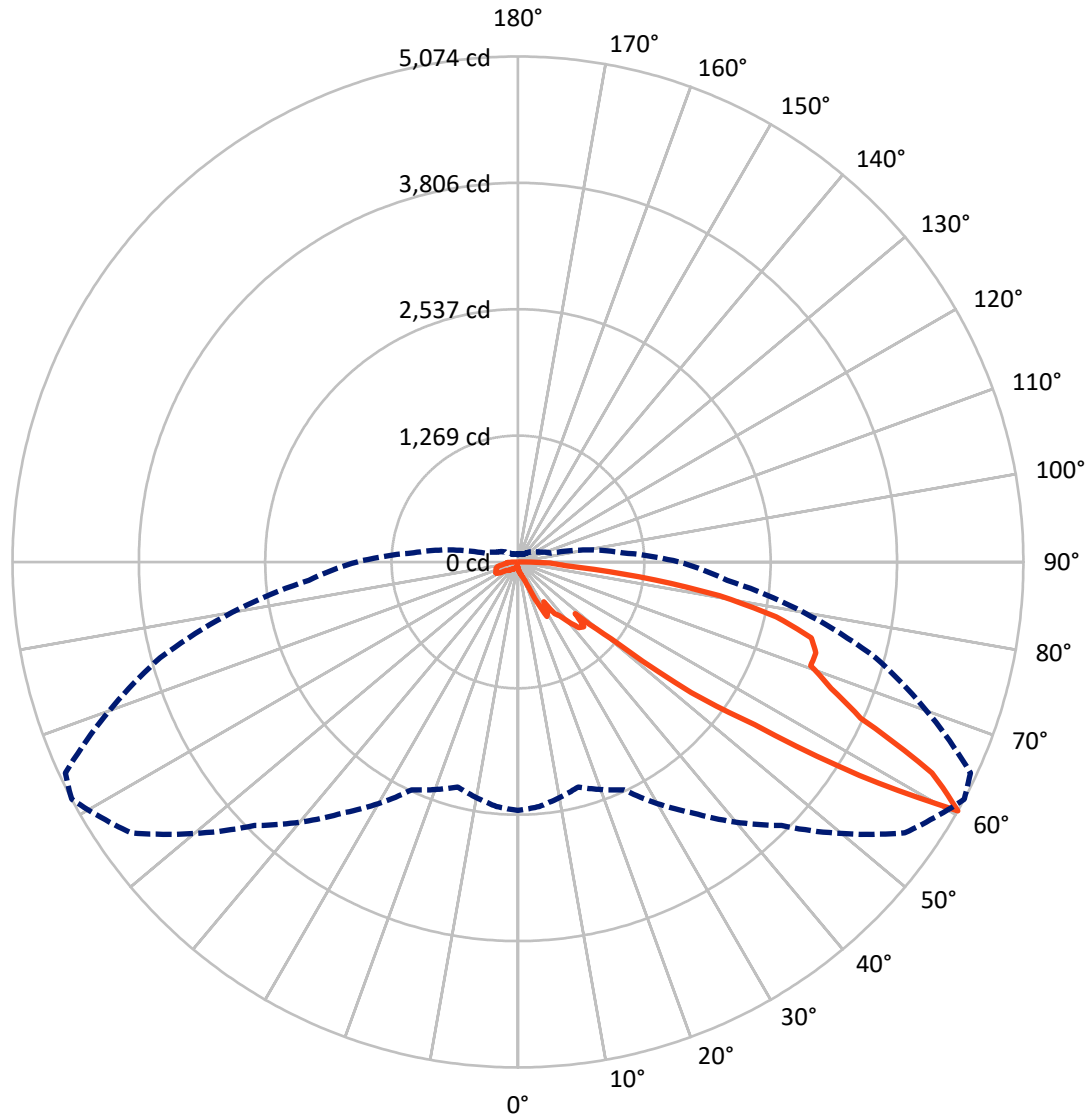
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588591
CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P588591
 CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

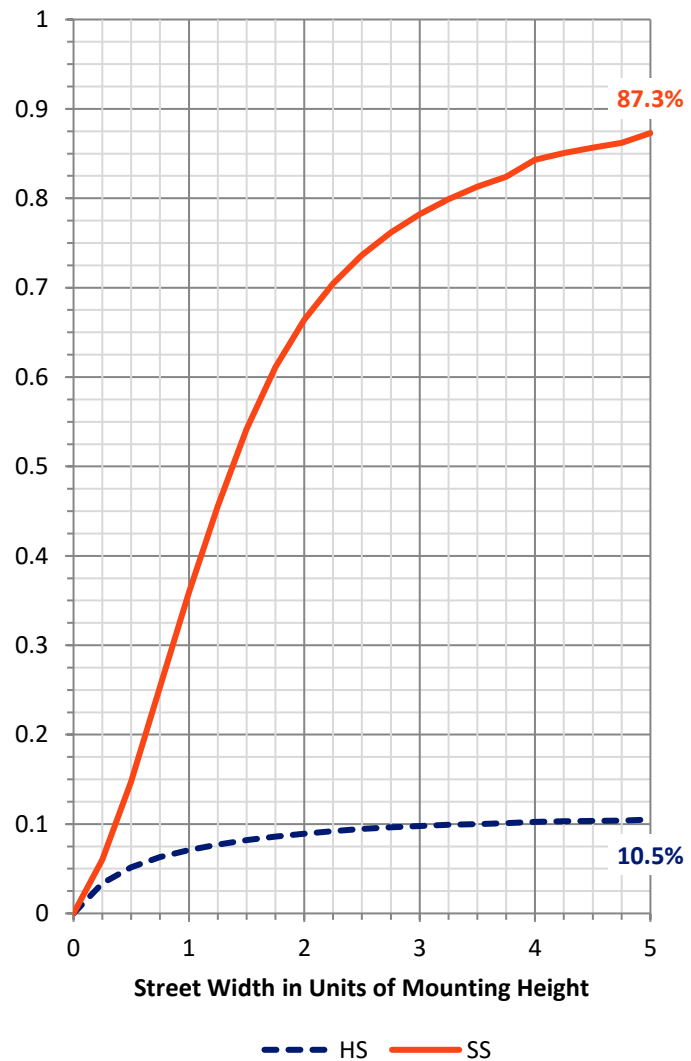
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.4	0.0	549.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4483.6	0.0	4483.6
	% Fixture	89.1	0.0	89.1
Total	Lumens	5033.0	0.0	5033.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.1
10°-20°	28.6	0.6
20°-30°	106.8	2.1
30°-40°	210.9	4.2
40°-50°	364.9	7.3
50°-60°	1080.7	21.5
60°-70°	1596.5	31.7
70°-80°	1280.5	25.4
80°-90°	357.3	7.1
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°	5033.0	100.0
0°-180°	5033.0	100.0



REPORT NUMBER: P588591

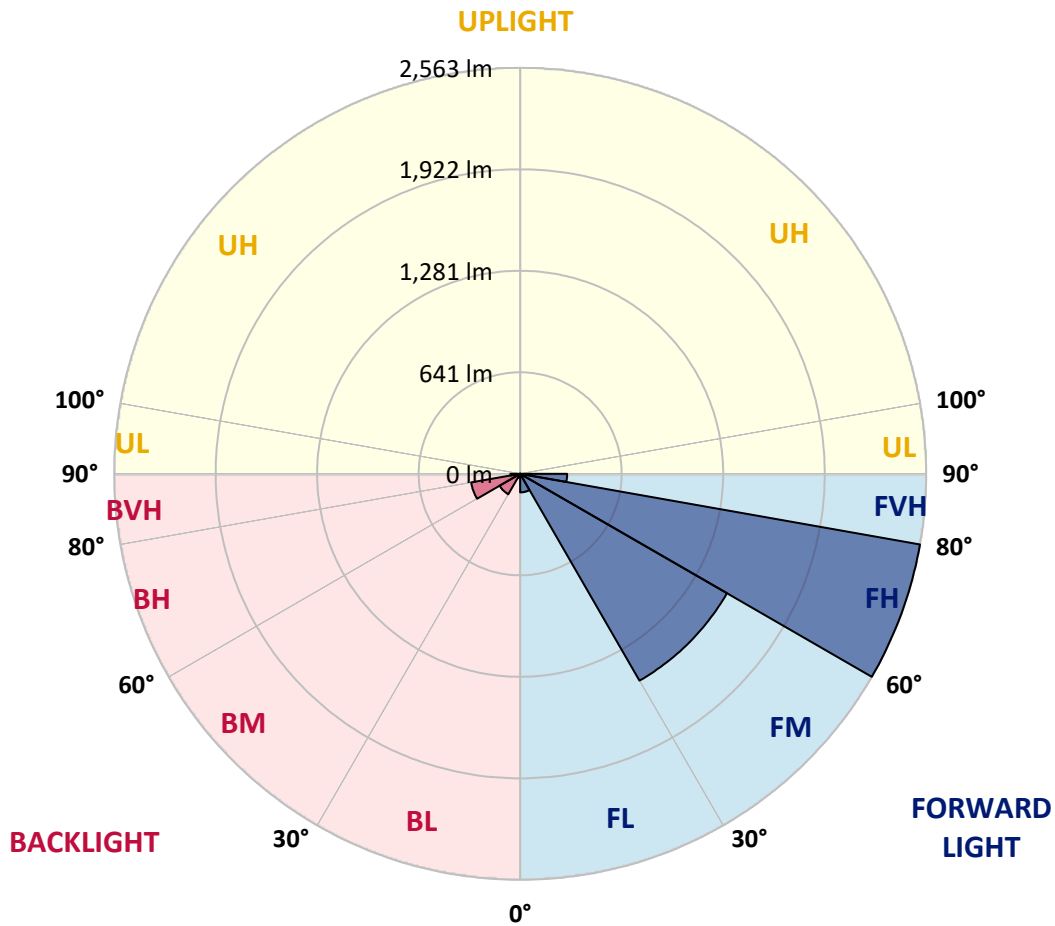
CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.6	2.3			
FM (30°-60°)	1507.2	29.9			
FH (60°-80°)	2562.8	50.9			G2/5000
FVH (80°-90°)	296.1	5.9			G3/500
BL (0°-30°)	24.5	0.5	B0/110		
BM (30°-60°)	149.4	3.0	B0/220		
BH (60°-80°)	314.3	6.2	B1/500		G1/500
BVH (80°-90°)	61.3	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





REPORT NUMBER: P588591

CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2.5°	84.3	82.9	80.2	77.5	76.1	74.8	73.4	72.1	70.7	66.6	63.9
5°	103.3	102.0	99.3	95.2	91.1	88.4	87.0	85.7	82.9	78.9	72.1
7.5°	116.9	116.9	116.9	114.2	110.1	104.7	100.6	97.9	95.2	89.7	82.9
10°	133.3	131.9	131.9	127.8	123.7	119.7	116.9	114.2	111.5	103.3	92.5
12.5°	145.5	144.1	142.8	138.7	137.3	133.3	131.9	126.5	123.7	114.2	100.6
15°	159.1	157.7	155.0	153.6	149.6	146.8	148.2	146.8	144.1	131.9	111.5
17.5°	174.0	172.7	171.3	171.3	171.3	168.6	167.2	164.5	161.8	142.8	118.3
20°	204.0	199.9	195.8	193.1	198.5	199.9	199.9	197.2	197.2	164.5	136.0
22.5°	259.7	255.6	252.9	232.5	240.7	278.7	291.0	277.4	280.1	216.2	149.6
25°	407.9	394.3	387.5	390.2	413.3	455.5	462.3	446.0	454.1	335.8	239.3
27.5°	477.3	480.0	533.0	587.4	594.2	615.9	652.7	618.7	601.0	429.7	299.1
30°	486.8	492.2	590.1	633.6	617.3	606.4	688.0	588.8	558.8	406.6	329.0
32.5°	448.7	473.2	577.9	595.6	557.5	497.7	557.5	474.5	465.0	353.5	312.7
35°	520.8	533.0	580.6	512.6	500.4	573.8	727.4	637.7	615.9	436.5	300.5
37.5°	630.9	626.8	717.9	771.0	751.9	677.1	757.4	689.4	671.7	549.3	429.7
40°	771.0	761.4	871.6	896.0	878.4	874.3	980.3	798.1	764.2	613.2	509.9
42.5°	810.4	813.1	883.8	943.6	930.0	928.7	1087.8	900.1	848.5	620.0	560.2
45°	828.1	843.0	979.0	942.3	955.9	931.4	1072.8	927.3	883.8	689.4	659.5
47.5°	719.3	727.4	915.1	916.4	743.8	749.2	875.6	772.3	741.0	539.8	568.4
50°	928.7	927.3	995.3	940.9	862.1	998.0	1253.6	1214.2	1191.1	810.4	630.9
52.5°	1343.4	1328.4	1431.8	1517.4	1501.1	1815.2	2195.9	2179.6	2096.7	1589.5	996.7
55°	1767.6	1760.8	1875.0	2176.9	2322.4	2617.4	2987.3	2883.9	2852.7	2341.4	1566.4
57.5°	2117.1	2118.4	2155.1	2414.8	2711.2	3282.3	3922.7	4043.8	3979.9	3022.6	1903.6
60°	2493.7	2463.8	2338.7	2523.6	3078.4	3741.9	4741.3	5074.4	5013.2	3718.8	2107.5
62.5°	2519.5	2489.6	2276.1	2463.8	2888.0	3498.5	4395.9	4666.5	4737.2	3907.8	2168.7
65°	2405.3	2368.6	2104.8	2244.9	2417.6	2787.4	3887.4	3780.0	3882.0	3849.3	2167.4
67.5°	2278.9	2248.9	2001.5	2118.4	2251.7	2499.1	3659.0	3391.1	3495.8	3620.9	2269.3
70°	2151.1	2108.9	1909.0	2035.5	2200.0	2367.2	3369.3	3117.8	3090.6	3067.5	2167.4
72.5°	2129.3	2096.7	1884.5	1972.9	2159.2	2282.9	3321.8	3128.7	3101.5	2958.7	1982.4
75°	1963.4	1960.7	1756.7	1839.7	2064.0	2141.5	3189.9	3041.7	2984.5	2801.0	1744.5
77.5°	1585.4	1565.0	1416.8	1503.8	1706.4	1813.8	2745.2	2648.7	2616.1	2444.7	1442.6
80°	1066.0	1048.3	984.4	1034.7	1223.7	1317.6	2060.0	2051.8	2027.3	1914.5	1066.0
82.5°	606.4	636.3	576.5	599.6	664.9	780.5	1280.8	1225.1	1207.4	1127.2	605.1
85°	341.3	334.5	311.4	308.7	360.3	354.9	553.4	474.5	493.6	426.9	288.3
87.5°	246.1	251.5	227.1	227.1	251.5	248.8	348.1	327.7	325.0	304.6	206.7
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: P588591

CATALOG NUMBER: ARC-CA6-120-730-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2.5°	62.5	61.2	57.1	53.0	46.2	39.4	35.4	38.1	39.4	40.8	40.8
5°	68.0	65.3	57.1	48.9	40.8	34.0	28.6	25.8	25.8	27.2	27.2
7.5°	80.2	76.1	65.3	55.7	44.9	38.1	31.3	27.2	24.5	24.5	24.5
10°	87.0	82.9	70.7	59.8	48.9	40.8	34.0	28.6	25.8	24.5	24.5
12.5°	93.8	88.4	76.1	63.9	51.7	42.2	35.4	29.9	28.6	28.6	28.6
15°	102.0	93.8	78.9	65.3	53.0	43.5	35.4	31.3	29.9	29.9	29.9
17.5°	110.1	102.0	84.3	66.6	54.4	43.5	36.7	31.3	29.9	31.3	31.3
20°	123.7	108.8	84.3	68.0	54.4	43.5	36.7	31.3	31.3	31.3	31.3
22.5°	130.5	118.3	89.7	69.3	55.7	44.9	36.7	31.3	31.3	31.3	31.3
25°	201.2	149.6	93.8	72.1	57.1	46.2	36.7	32.6	31.3	32.6	32.6
27.5°	252.9	210.8	107.4	76.1	58.5	47.6	38.1	32.6	32.6	34.0	34.0
30°	281.5	240.7	116.9	82.9	62.5	48.9	39.4	34.0	34.0	34.0	34.0
32.5°	267.9	217.6	118.3	91.1	69.3	51.7	40.8	35.4	35.4	35.4	35.4
35°	232.5	179.5	115.6	92.5	73.4	57.1	43.5	36.7	36.7	35.4	35.4
37.5°	325.0	225.7	119.7	92.5	76.1	61.2	47.6	39.4	38.1	36.7	36.7
40°	384.8	251.5	131.9	99.3	76.1	62.5	50.3	43.5	40.8	39.4	38.1
42.5°	426.9	276.0	141.4	108.8	84.3	65.3	51.7	47.6	43.5	40.8	40.8
45°	488.1	292.3	153.6	119.7	92.5	72.1	55.7	48.9	47.6	44.9	43.5
47.5°	446.0	297.8	165.9	131.9	102.0	78.9	61.2	53.0	51.7	48.9	47.6
50°	458.2	289.6	170.0	140.0	111.5	84.3	66.6	58.5	55.7	53.0	53.0
52.5°	625.5	383.4	186.3	144.1	115.6	92.5	72.1	63.9	61.2	58.5	58.5
55°	1021.1	587.4	229.8	159.1	119.7	95.2	77.5	70.7	66.6	63.9	62.5
57.5°	1333.9	829.4	291.0	194.4	142.8	100.6	80.2	77.5	74.8	69.3	68.0
60°	1618.0	1051.1	342.6	233.9	179.5	130.5	92.5	85.7	84.3	76.1	73.4
62.5°	1849.2	1234.6	384.8	255.6	205.3	168.6	126.5	106.1	95.2	85.7	82.9
65°	1933.5	1295.8	401.1	259.7	212.1	187.6	159.1	144.1	112.9	97.9	95.2
67.5°	1966.1	1282.2	409.3	251.5	206.7	187.6	167.2	168.6	137.3	108.8	104.7
70°	1902.2	1229.2	405.2	243.4	198.5	182.2	163.2	157.7	142.8	116.9	111.5
72.5°	1758.1	1180.2	403.8	242.0	195.8	175.4	150.9	134.6	122.4	115.6	112.9
75°	1614.0	1147.6	398.4	240.7	191.7	165.9	137.3	116.9	100.6	102.0	104.7
77.5°	1370.6	1013.0	368.5	223.0	172.7	144.1	118.3	103.3	91.1	89.7	89.7
80°	1036.1	751.9	301.9	186.3	141.4	116.9	97.9	92.5	85.7	82.9	81.6
82.5°	573.8	395.7	194.4	138.7	111.5	91.1	82.9	82.9	78.9	74.8	74.8
85°	262.4	221.6	144.1	115.6	95.2	78.9	72.1	72.1	68.0	63.9	62.5
87.5°	204.0	175.4	122.4	107.4	92.5	77.5	69.3	69.3	65.3	62.5	62.5
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)