

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: P1209918

Luminaire Tested: **ARCH1-20-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2483 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

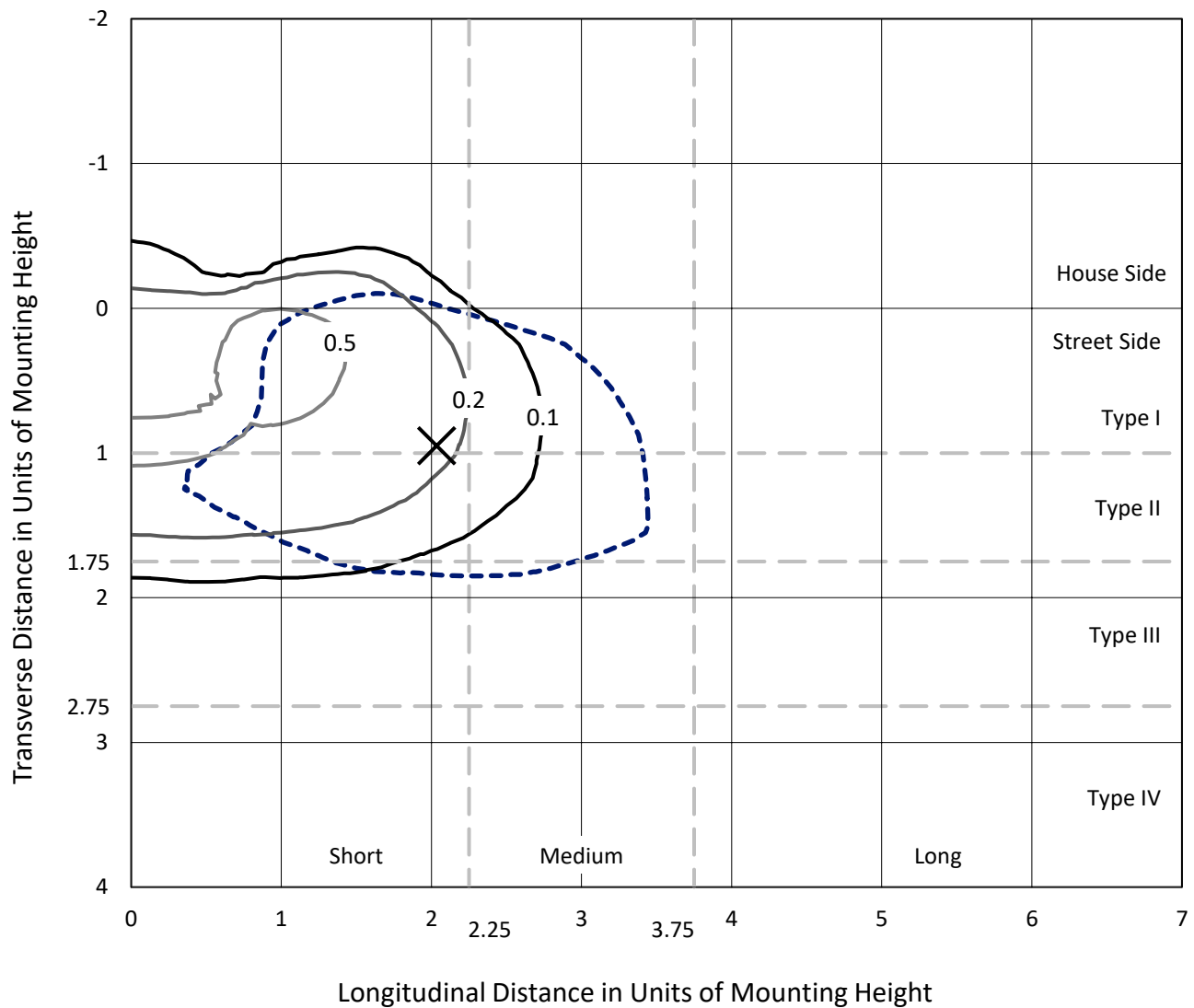
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1209918
CATALOG NUMBER: ARCH1-20-730-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

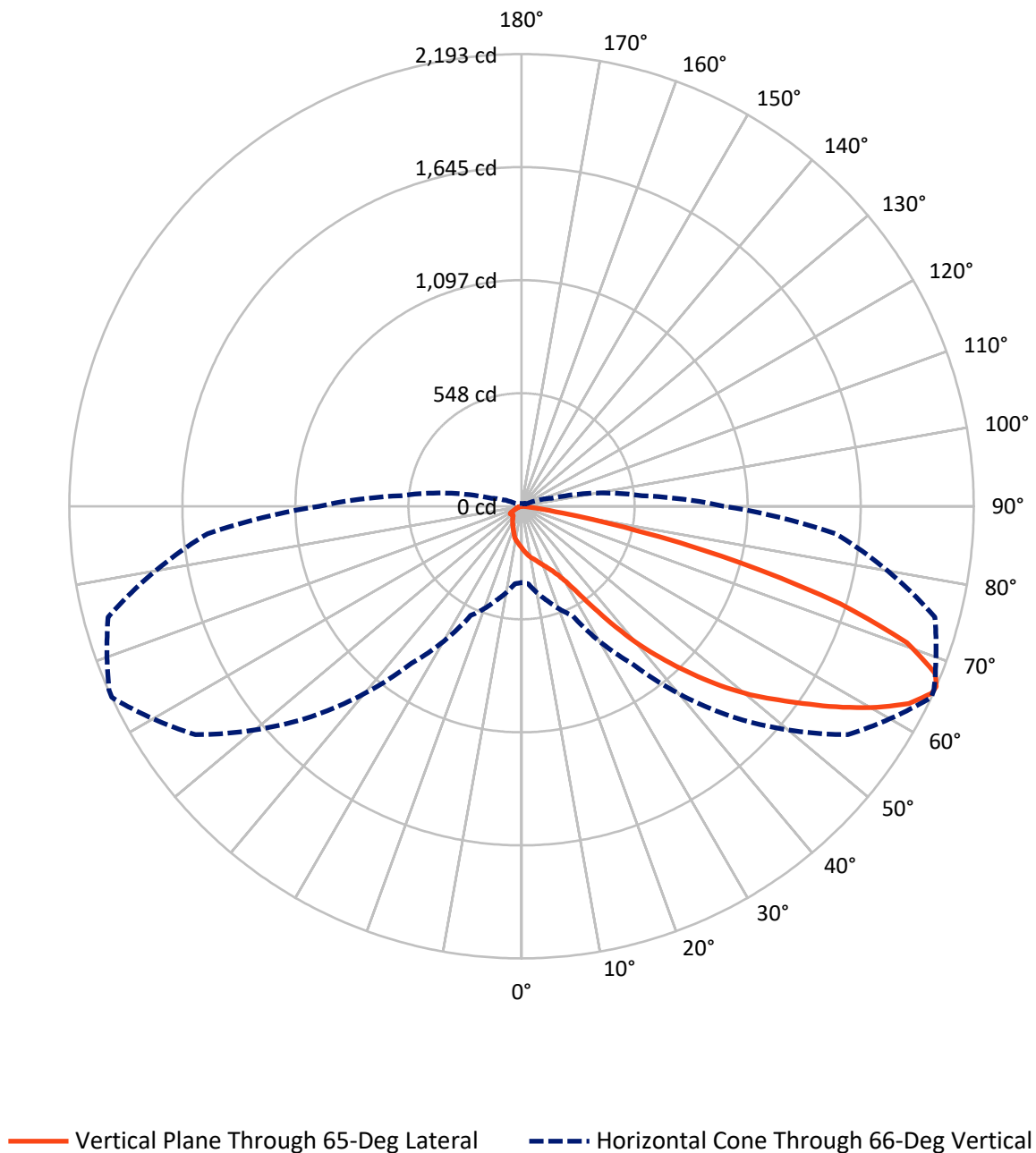
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type III - Short - N/A

REPORT NUMBER: P1209918
CATALOG NUMBER: ARCH1-20-730-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1209918

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	293.1	0.0	293.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2190.0	0.0	2190.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	2483.0	0.0	2483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	0.8
10°-20°	56.8	2.3
20°-30°	103.9	4.2
30°-40°	211.1	8.5
40°-50°	445.9	18.0
50°-60°	685.5	27.6
60°-70°	690.0	27.8
70°-80°	257.8	10.4
80°-90°	12.9	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°	2483.0	100.0
0°-180°	2483.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209918

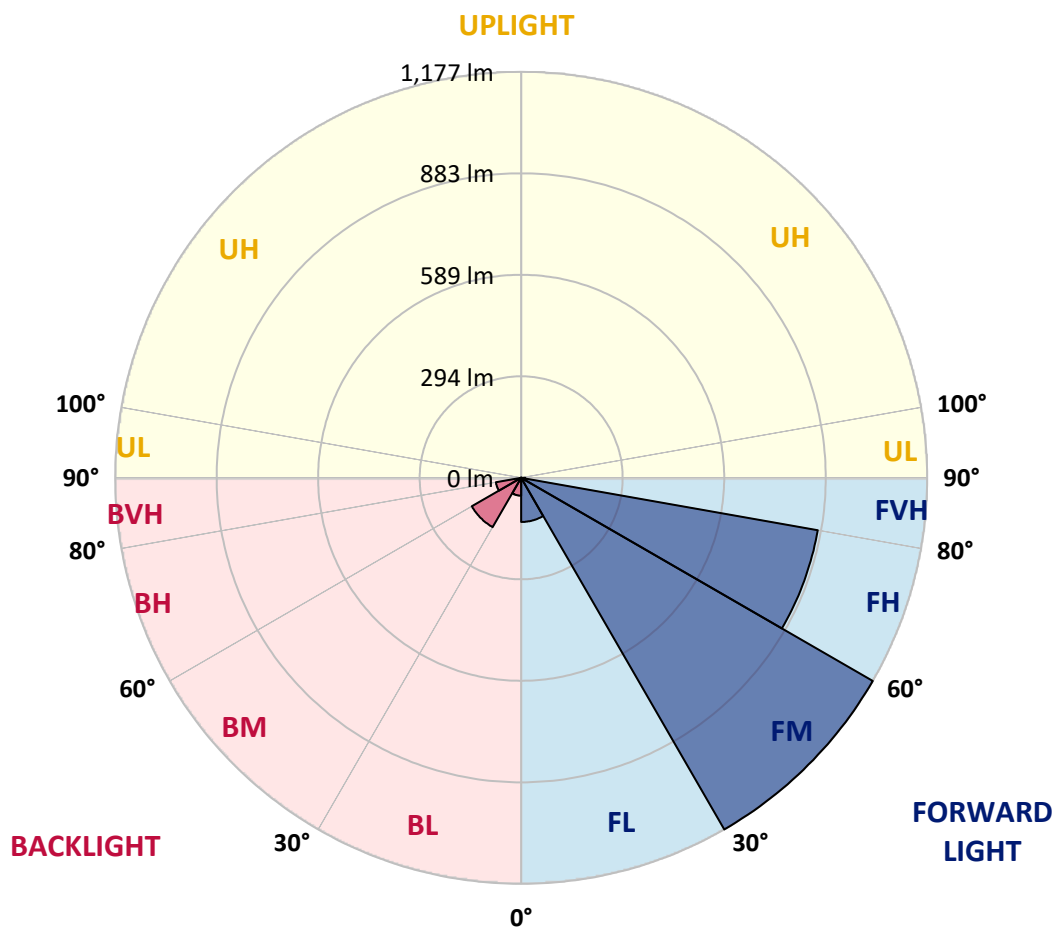
CATALOG NUMBER: ARCH1-20-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.0	5.2			
FM	(30°-60°)	1177.3	47.4			
FH	(60°-80°)	873.3	35.2			G1/1800
FVH	(80°-90°)	11.4	0.5			G1/100
BL	(0°-30°)	51.9	2.1	B0/110		
BM	(30°-60°)	165.2	6.7	B0/220		
BH	(60°-80°)	74.5	3.0	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			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 III Short



REPORT NUMBER: P1209918

CATALOG NUMBER: ARCH1-20-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3
2.5°	230.7	231.1	230.2	228.4	226.6	224.4	220.8	214.9	214.0	210.0	205.4
5°	246.4	247.3	246.0	245.5	244.6	241.5	236.5	228.0	227.1	219.0	208.6
7.5°	251.9	253.2	252.3	252.3	252.3	251.0	248.7	241.0	239.7	229.3	213.6
10°	255.9	256.8	256.4	258.2	259.5	258.6	257.3	252.8	251.4	241.0	220.3
12.5°	262.2	262.7	263.1	264.0	266.3	267.2	266.7	262.7	261.8	254.6	228.9
15°	268.1	268.1	268.5	272.6	275.7	277.5	278.0	274.8	273.9	268.1	239.7
17.5°	273.5	273.9	275.3	279.8	285.2	288.8	291.1	289.7	288.3	283.8	252.3
20°	281.6	282.5	283.8	290.2	295.6	301.4	305.9	305.5	305.0	301.9	267.2
22.5°	295.6	296.5	298.7	304.6	310.0	317.2	324.8	324.4	323.0	320.8	284.7
25°	316.7	316.7	318.1	323.0	329.8	338.4	345.6	346.9	345.6	344.2	306.8
27.5°	343.3	343.8	343.8	349.2	355.5	366.3	375.3	376.7	376.7	375.3	336.6
30°	380.3	378.9	378.0	382.5	389.3	405.0	420.8	423.5	422.2	424.4	378.5
32.5°	443.8	441.5	433.9	434.8	438.8	460.5	487.0	496.5	496.0	500.1	446.0
35°	531.6	527.1	515.9	506.4	506.0	529.4	569.9	605.5	605.1	619.0	548.8
37.5°	630.8	636.6	615.4	599.2	594.3	612.7	665.0	742.0	746.1	770.4	683.5
40°	763.2	766.8	739.8	716.8	693.4	700.1	769.1	888.9	896.1	923.2	818.2
42.5°	878.6	882.2	866.4	838.5	808.7	796.1	874.1	1022.3	1028.1	1065.5	957.0
45°	957.0	959.7	965.1	967.8	934.0	907.8	1002.5	1159.3	1166.5	1209.7	1092.6
47.5°	1018.2	1020.5	1031.3	1058.3	1051.6	1030.8	1133.1	1301.6	1303.4	1351.6	1224.6
50°	1046.6	1052.0	1078.6	1120.1	1149.8	1155.6	1275.0	1436.3	1441.3	1487.2	1349.4
52.5°	1015.1	1016.9	1084.0	1162.0	1221.9	1281.3	1417.4	1561.1	1575.6	1609.8	1461.6
55°	908.7	921.8	1023.6	1160.6	1278.6	1400.7	1569.7	1695.9	1708.9	1730.5	1560.2
57.5°	785.3	799.7	923.6	1102.5	1303.0	1511.1	1710.7	1839.1	1848.1	1854.0	1650.8
60°	678.5	692.0	819.5	991.2	1278.6	1589.1	1841.8	1981.5	1989.2	1973.4	1696.3
62.5°	547.4	560.9	689.3	843.9	1183.1	1604.8	1939.1	2108.1	2111.3	2068.5	1668.4
65°	412.7	421.7	528.9	661.4	1016.0	1521.0	1961.2	2186.9	2183.8	2095.9	1584.6
66°	369.9	377.6	472.2	584.8	929.0	1444.4	1931.5	2193.3	2190.1	2075.7	1529.6
67.5°	319.0	321.2	399.2	478.5	777.2	1281.8	1840.9	2164.4	2167.1	2019.8	1429.1
70°	249.2	248.7	293.8	333.0	530.7	911.9	1535.5	1982.8	1995.9	1808.9	1218.7
72.5°	159.5	154.1	180.2	203.6	309.1	529.4	1119.6	1616.1	1638.2	1421.0	907.8
75°	95.1	89.7	96.0	101.8	148.2	254.6	658.2	1099.8	1121.0	911.0	540.2
77.5°	71.2	68.9	69.4	64.4	65.8	95.5	300.5	581.2	596.5	373.1	205.0
80°	54.5	48.7	45.5	47.8	43.3	37.8	111.7	200.0	209.5	88.3	42.8
82.5°	36.5	31.5	29.3	32.0	27.5	21.2	27.0	38.7	37.8	23.9	16.7
85°	18.9	16.2	16.2	16.2	14.0	10.4	11.7	15.8	15.8	12.6	9.9
87.5°	5.4	5.0	5.9	5.4	4.1	4.1	4.5	5.4	5.4	5.0	4.5
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: P1209918

CATALOG NUMBER: ARCH1-20-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3	202.3
2.5°	201.8	200.0	195.1	191.5	187.9	184.7	181.1	180.2	178.4	178.9	178.0
5°	203.2	198.2	189.7	181.6	175.3	169.9	163.1	160.4	156.8	155.4	154.5
7.5°	205.0	197.8	185.2	173.9	163.1	152.3	141.5	135.2	131.1	129.3	128.0
10°	209.1	199.6	182.9	165.3	146.9	131.6	120.7	116.2	113.5	113.1	112.6
12.5°	214.5	202.3	180.7	154.5	130.2	115.8	109.0	107.7	107.2	107.2	106.8
15°	222.6	206.8	177.1	141.9	117.1	107.2	104.1	101.8	100.9	100.9	100.9
17.5°	230.7	212.2	171.7	128.9	108.1	101.8	98.7	97.3	96.4	96.9	96.4
20°	241.0	218.5	164.4	117.6	102.3	97.3	94.2	92.8	92.4	92.4	92.4
22.5°	252.8	225.7	155.4	109.0	97.3	92.8	89.7	88.3	87.4	87.9	87.9
25°	268.5	234.7	146.0	100.5	92.4	88.3	84.7	82.9	82.9	83.4	83.8
27.5°	288.8	245.5	136.5	95.1	87.9	83.8	79.7	77.9	78.4	79.3	79.3
30°	318.5	260.4	127.1	89.2	82.9	78.4	74.8	73.0	73.9	75.7	75.7
32.5°	360.9	284.7	118.9	82.4	75.7	70.7	67.1	65.8	68.0	71.6	71.6
35°	436.6	329.3	114.0	75.7	68.0	62.2	57.7	56.3	59.5	64.0	64.0
37.5°	538.0	401.0	115.8	69.8	61.7	55.0	50.0	48.2	50.5	54.5	55.9
40°	651.0	487.5	131.6	64.9	55.9	49.1	44.2	42.4	43.7	45.5	46.0
42.5°	764.1	579.4	161.3	61.3	51.4	44.2	39.6	38.3	39.2	39.6	40.1
45°	876.8	670.4	198.7	59.0	47.3	40.1	35.6	35.6	36.0	36.0	36.0
47.5°	983.5	759.2	237.9	58.6	43.7	36.0	32.4	32.9	32.9	33.3	33.3
50°	1084.5	838.5	277.5	59.9	40.5	32.4	29.7	29.7	29.7	30.2	29.7
52.5°	1168.7	907.8	319.0	62.2	37.4	29.7	27.0	27.0	27.0	27.5	27.0
55°	1248.5	970.9	361.3	65.3	34.7	27.5	24.8	23.9	23.9	24.3	23.9
57.5°	1313.3	1012.8	401.4	65.8	32.4	25.2	23.0	21.6	21.6	21.6	21.6
60°	1316.0	988.5	413.1	57.7	29.7	23.0	20.7	18.9	19.4	19.4	19.4
62.5°	1230.0	860.5	332.1	43.3	26.6	20.7	18.9	17.1	17.1	17.1	17.1
65°	1061.0	669.5	194.6	34.2	23.0	18.5	16.7	15.3	15.3	15.3	14.9
66°	981.7	587.1	149.1	31.1	21.6	18.0	16.2	14.9	14.4	14.0	14.0
67.5°	852.4	464.1	93.3	27.5	19.8	16.7	14.9	13.5	13.1	12.6	12.6
70°	642.0	294.7	45.5	21.2	17.1	14.4	13.1	11.7	11.3	10.8	10.4
72.5°	450.5	172.6	23.9	16.2	14.0	12.6	11.3	9.9	9.5	9.0	9.0
75°	254.6	83.4	15.8	11.7	11.3	10.4	9.5	8.1	7.7	7.7	7.7
77.5°	96.4	28.8	10.8	8.6	9.0	8.1	6.8	6.8	6.3	6.8	6.3
80°	25.2	12.6	6.8	6.3	6.8	5.9	5.0	5.4	5.4	5.4	5.4
82.5°	13.5	7.2	4.1	4.5	4.1	4.1	3.2	3.6	4.1	3.6	4.1
85°	9.5	3.6	2.3	2.3	1.8	1.8	1.4	1.8	2.3	1.8	1.8
87.5°	5.0	1.4	1.4	1.4	1.4	0.9	0.5	0.0	0.5	0.5	0.5
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)