

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: P348771

Luminaire Tested: **ARCH-N-PA1-10-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-750-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1780 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

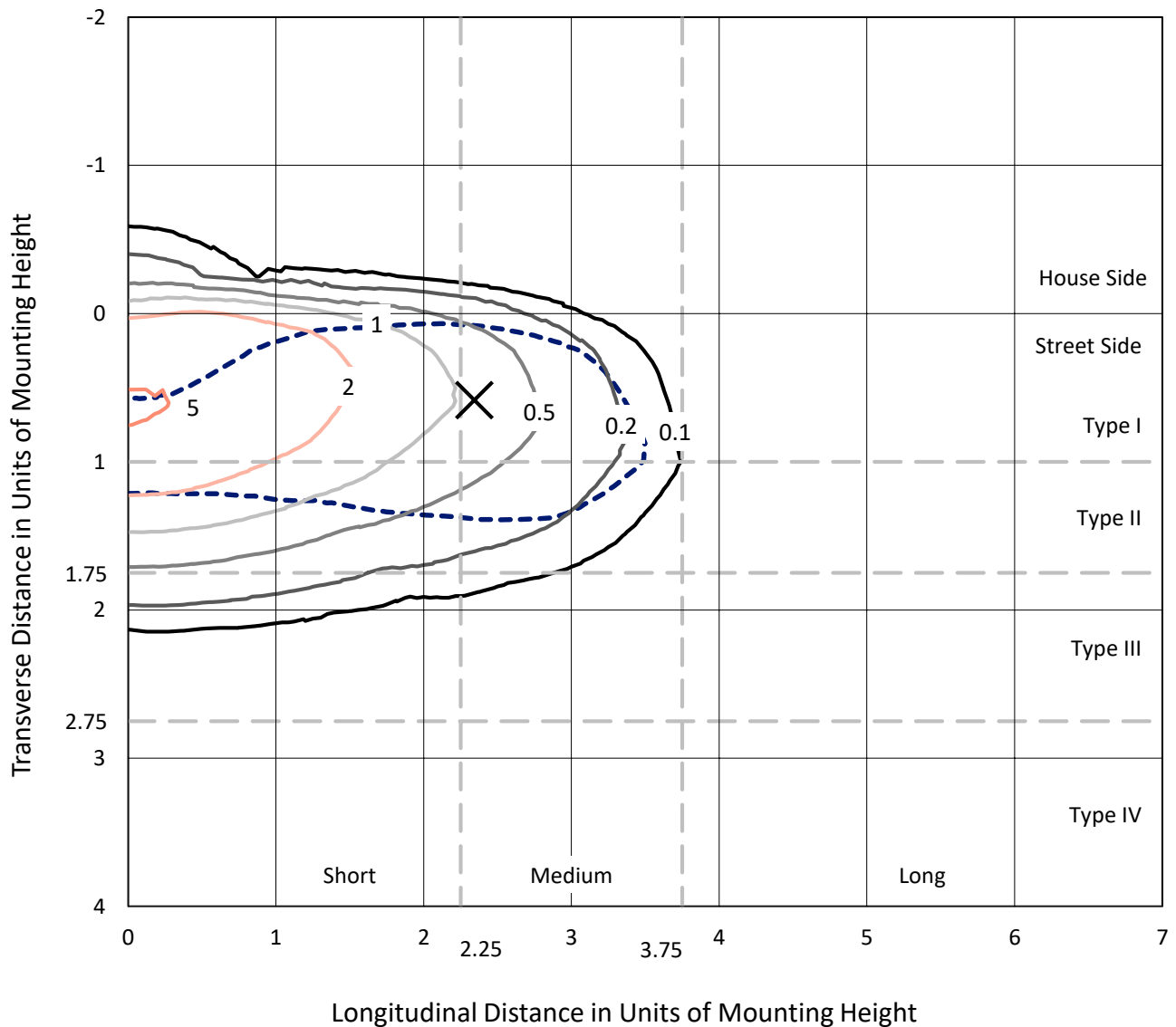
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348771
 CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

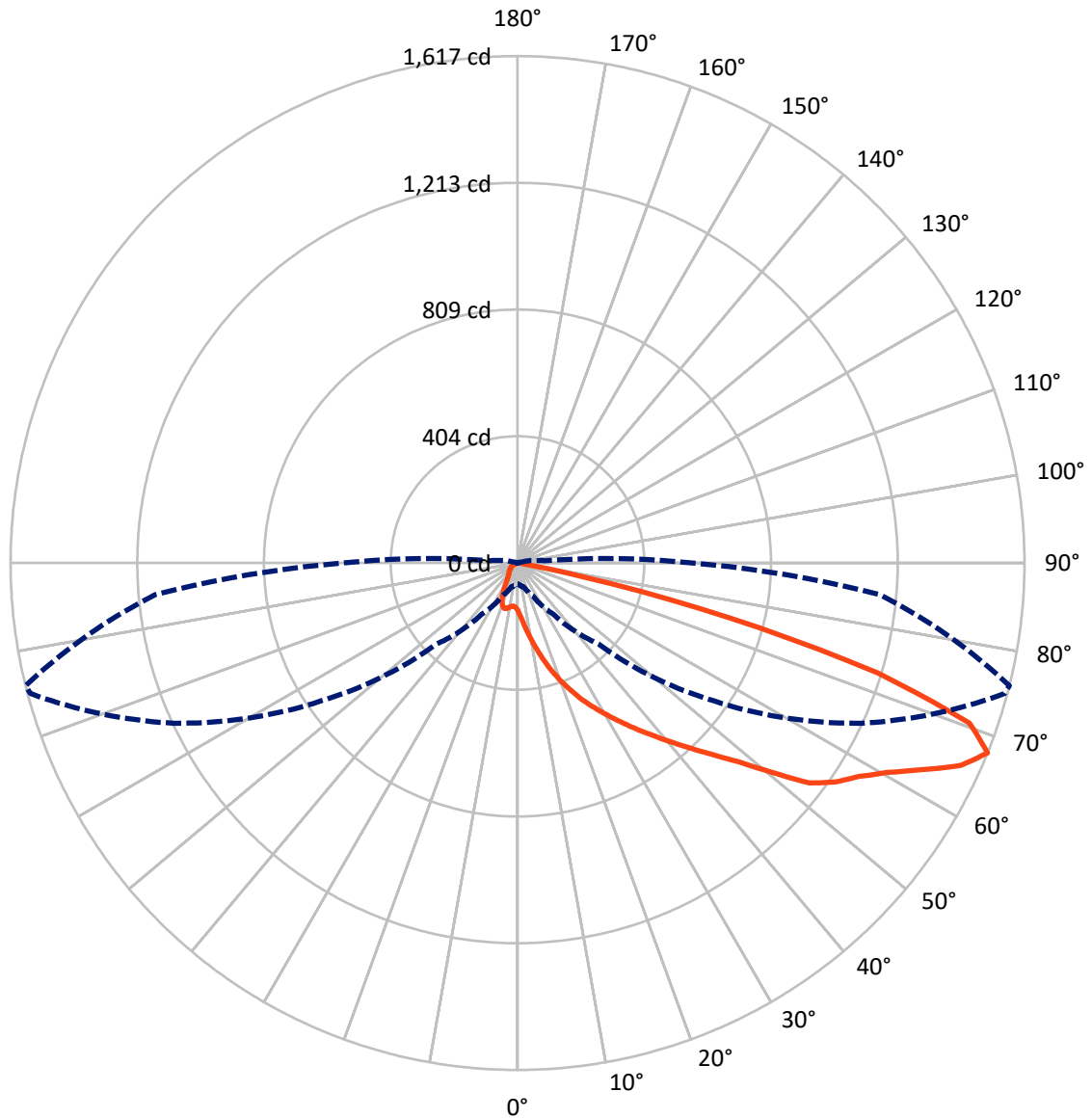
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P348771
CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P348771

CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

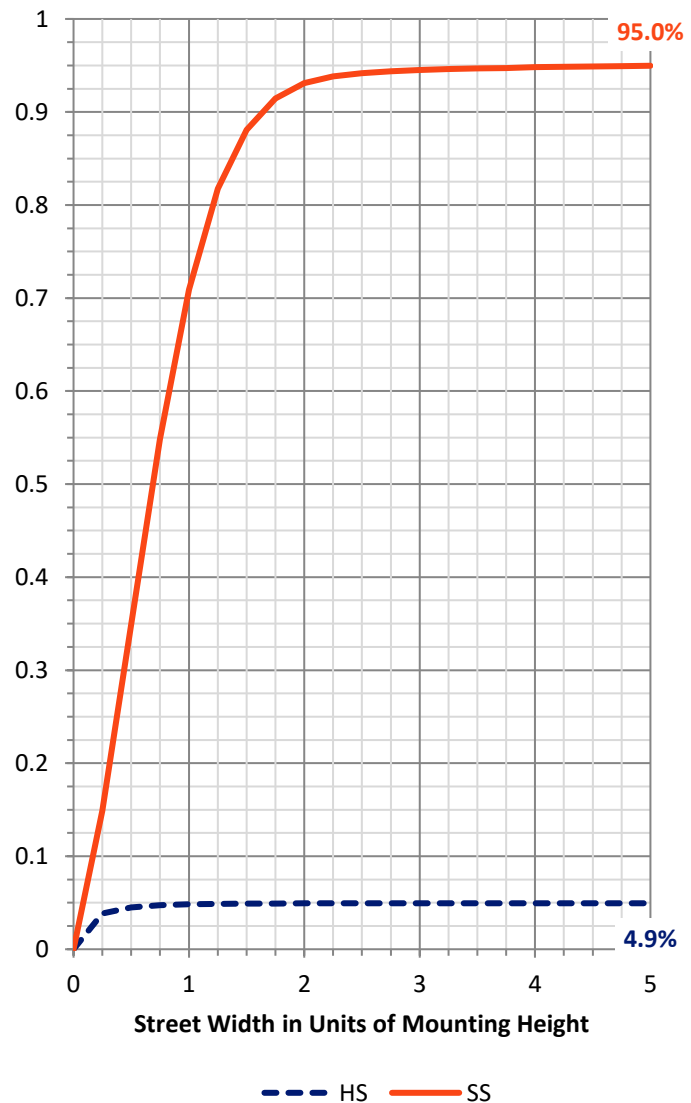
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.4	0.0	88.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1691.6	0.0	1691.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	1780.0	0.0	1780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	1.1
10°-20°	74.4	4.2
20°-30°	151.4	8.5
30°-40°	262.9	14.8
40°-50°	371.4	20.9
50°-60°	421.2	23.7
60°-70°	349.3	19.6
70°-80°	126.5	7.1
80°-90°	4.1	0.2
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°	1780.0	100.0
0°-180°	1780.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348771

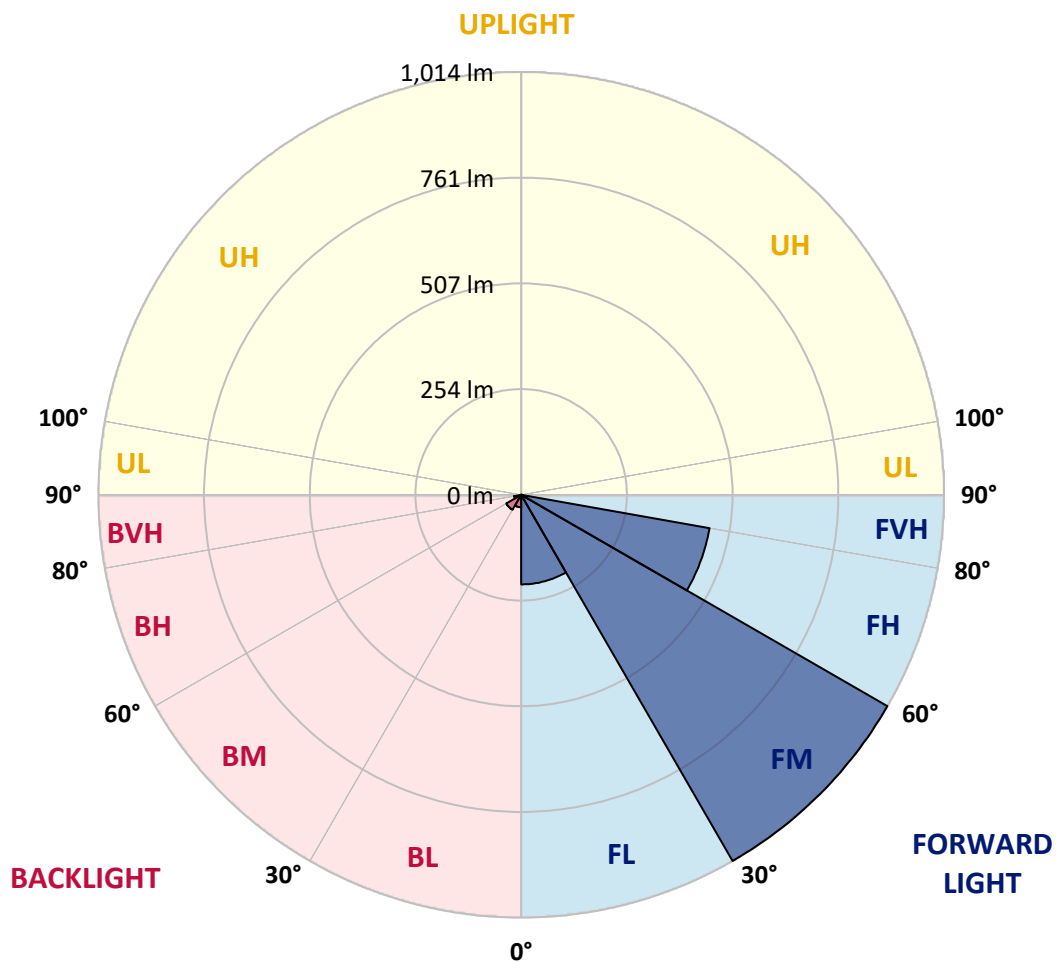
CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.8	12.1			
FM	(30°-60°)	1014.0	57.0			
FH	(60°-80°)	458.8	25.8			G0/660
FVH	(80°-90°)	4.0	0.2			G0/10
BL	(0°-30°)	29.8	1.7	B0/110		
BM	(30°-60°)	41.4	2.3	B0/220		
BH	(60°-80°)	17.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G0

Type II Medium





REPORT NUMBER: P348771

CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0
2.5°	225.4	220.3	221.5	218.2	212.3	200.1	189.8	179.9	168.5	168.1	158.6
5°	303.9	299.7	299.1	292.5	281.7	261.0	240.9	218.0	192.4	190.5	170.5
7.5°	375.2	371.8	370.5	362.7	342.6	322.5	296.3	262.6	222.6	219.2	186.5
10°	430.0	428.3	428.7	423.0	405.9	387.2	352.8	309.8	256.8	251.5	205.7
12.5°	471.5	471.9	474.7	471.2	461.6	447.8	411.0	360.1	294.7	287.5	227.6
15°	502.0	503.9	509.1	513.4	512.7	500.6	466.9	411.2	335.0	326.9	252.0
17.5°	521.7	523.9	531.4	540.9	549.6	546.8	520.9	460.5	375.7	366.4	278.1
20°	539.0	541.6	549.6	562.2	578.5	582.0	565.0	508.3	416.3	405.0	305.1
22.5°	576.5	576.5	581.4	588.7	604.2	613.3	602.5	552.7	456.5	444.7	332.6
25°	644.4	641.8	640.1	634.3	637.8	643.4	637.4	594.2	496.9	485.0	360.6
27.5°	725.0	726.6	712.7	697.2	685.2	679.4	669.6	632.6	535.7	522.6	387.9
30°	810.1	810.6	794.2	774.4	748.0	726.0	709.0	669.3	575.7	561.4	414.4
32.5°	886.9	883.8	867.6	840.6	807.2	782.6	747.3	710.4	617.9	604.1	443.9
35°	947.7	944.1	924.4	899.8	865.2	840.4	797.9	751.3	662.4	648.9	473.4
37.5°	992.2	987.9	967.7	942.4	912.5	898.1	856.6	795.8	710.9	696.4	504.5
40°	1007.6	1003.9	991.2	972.7	948.7	945.4	918.9	847.1	763.7	748.3	539.8
42.5°	998.4	994.8	990.3	984.0	974.1	977.2	977.7	905.5	822.4	807.2	578.7
45°	961.9	958.7	963.4	972.5	984.9	1000.3	1031.4	968.3	887.9	871.7	623.7
47.5°	908.2	905.8	918.8	941.5	977.8	1020.4	1080.4	1034.3	961.4	946.4	679.9
50°	831.7	831.3	857.2	898.8	954.6	1030.1	1131.1	1109.3	1063.6	1047.8	757.9
52.5°	712.7	713.5	764.4	830.9	913.8	1023.5	1163.7	1205.7	1182.5	1166.0	825.6
55°	599.4	604.1	640.2	736.1	851.2	999.2	1175.0	1250.7	1248.1	1232.5	863.2
57.5°	488.4	496.9	531.7	621.3	759.9	943.1	1168.8	1270.2	1296.9	1284.9	912.8
60°	368.1	372.0	412.1	495.9	642.7	840.8	1124.1	1280.8	1363.6	1355.4	984.7
62.5°	234.2	244.0	279.5	360.3	500.4	698.7	1048.8	1280.7	1447.2	1451.7	1077.6
65°	123.4	134.8	153.6	223.3	343.9	539.9	935.5	1268.6	1549.7	1556.0	1150.2
67.5°	66.5	69.8	79.8	115.9	199.4	365.8	768.9	1209.4	1609.0	1617.4	1160.4
70°	48.7	50.5	54.2	64.1	100.4	212.5	561.1	1075.0	1532.5	1529.4	1031.0
72.5°	37.4	40.2	43.0	47.0	57.7	113.4	349.3	841.8	1222.8	1202.2	770.7
75°	29.5	29.9	33.9	37.5	43.3	64.6	155.1	490.3	746.3	697.6	399.6
77.5°	23.6	23.9	26.2	29.3	34.8	42.4	48.0	192.9	238.3	212.6	86.7
80°	14.0	14.7	19.5	22.6	28.9	26.8	17.5	41.9	37.2	33.7	14.6
82.5°	7.8	8.4	11.0	17.9	20.1	12.8	8.7	11.3	8.7	8.5	4.1
85°	0.0	0.4	7.1	11.1	8.2	2.8	3.7	3.7	2.6	2.4	1.6
87.5°	0.0	0.0	2.2	2.1	0.3	0.5	0.9	1.2	1.0	1.0	0.9
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: P348771

CATALOG NUMBER: ARCH-N-PA1-10-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0	151.0
2.5°	154.0	149.7	141.8	134.0	127.4	122.1	117.2	115.3	113.7	113.5	112.2
5°	160.8	152.3	137.1	124.6	116.3	110.4	105.3	102.2	99.8	98.8	98.0
7.5°	171.2	158.3	136.5	122.1	112.2	102.2	92.8	82.7	76.4	73.9	72.5
10°	183.8	166.3	138.8	121.4	104.0	82.9	67.4	54.5	49.3	47.6	47.1
12.5°	198.6	176.2	142.9	117.1	86.5	58.9	46.5	42.1	40.9	40.4	40.4
15°	215.5	187.0	145.8	104.4	64.0	44.5	40.2	38.2	37.0	36.3	36.3
17.5°	232.8	197.6	144.4	86.1	47.2	39.6	36.4	34.2	32.5	31.8	31.7
20°	250.3	207.5	136.6	64.1	39.9	36.0	32.4	29.9	28.2	27.5	27.4
22.5°	268.4	215.8	122.8	47.0	35.9	31.9	28.4	26.0	24.3	23.7	23.4
25°	286.0	222.6	103.7	38.1	32.1	28.1	24.7	22.5	21.0	20.4	20.3
27.5°	302.5	226.9	81.4	33.6	28.7	24.6	21.6	19.6	18.3	17.9	17.8
30°	317.3	227.3	60.2	30.3	25.7	21.7	18.9	17.1	16.0	15.5	15.4
32.5°	332.3	224.0	43.8	27.4	23.0	19.1	16.4	15.0	14.2	13.8	13.8
35°	346.4	216.4	34.2	24.8	20.4	16.6	14.4	13.4	12.9	12.6	12.6
37.5°	360.2	205.6	29.0	22.5	17.9	14.5	12.7	12.1	11.7	11.3	11.3
40°	374.2	191.9	26.4	20.4	15.8	12.9	11.3	10.8	10.4	10.1	10.0
42.5°	391.4	176.2	24.6	18.5	14.0	11.4	10.0	9.4	9.0	8.7	8.6
45°	411.4	162.6	23.2	16.5	12.6	10.1	8.7	8.0	7.6	7.2	7.1
47.5°	440.2	152.8	21.4	14.4	11.2	8.8	7.5	6.8	6.1	5.7	5.6
50°	476.9	144.7	19.0	12.6	9.7	7.5	6.2	5.4	4.8	4.4	4.4
52.5°	495.2	134.1	16.8	10.9	8.2	6.3	5.1	4.1	3.7	3.4	3.4
55°	502.5	126.0	14.6	9.3	6.8	5.2	4.0	3.1	2.9	2.7	2.6
57.5°	523.1	123.6	12.7	7.9	5.6	4.1	3.0	2.3	2.2	1.9	1.9
60°	556.3	124.8	11.0	6.7	4.5	3.2	2.3	1.8	1.6	1.3	1.3
62.5°	592.0	123.3	9.3	5.8	3.5	2.3	1.6	1.3	1.3	0.8	0.7
65°	598.9	109.8	8.0	4.8	2.7	1.7	1.0	0.9	1.2	0.2	0.0
67.5°	555.9	85.2	6.9	3.7	2.0	1.3	0.8	0.4	1.0	0.0	0.0
70°	444.5	54.1	5.5	2.7	1.6	1.1	0.6	0.2	0.8	0.0	0.0
72.5°	314.3	31.4	4.4	1.9	1.3	0.9	0.5	0.0	0.5	0.0	0.0
75°	159.0	16.8	2.7	1.4	1.0	0.6	0.3	0.0	0.1	0.0	0.0
77.5°	34.4	7.8	1.7	1.0	0.7	0.4	0.2	0.0	0.0	0.0	0.0
80°	7.5	3.4	1.1	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	1.8	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	0.1	0.1	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)