

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: P397956

Luminaire Tested: **ARCH-S-PA1-60-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5056 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

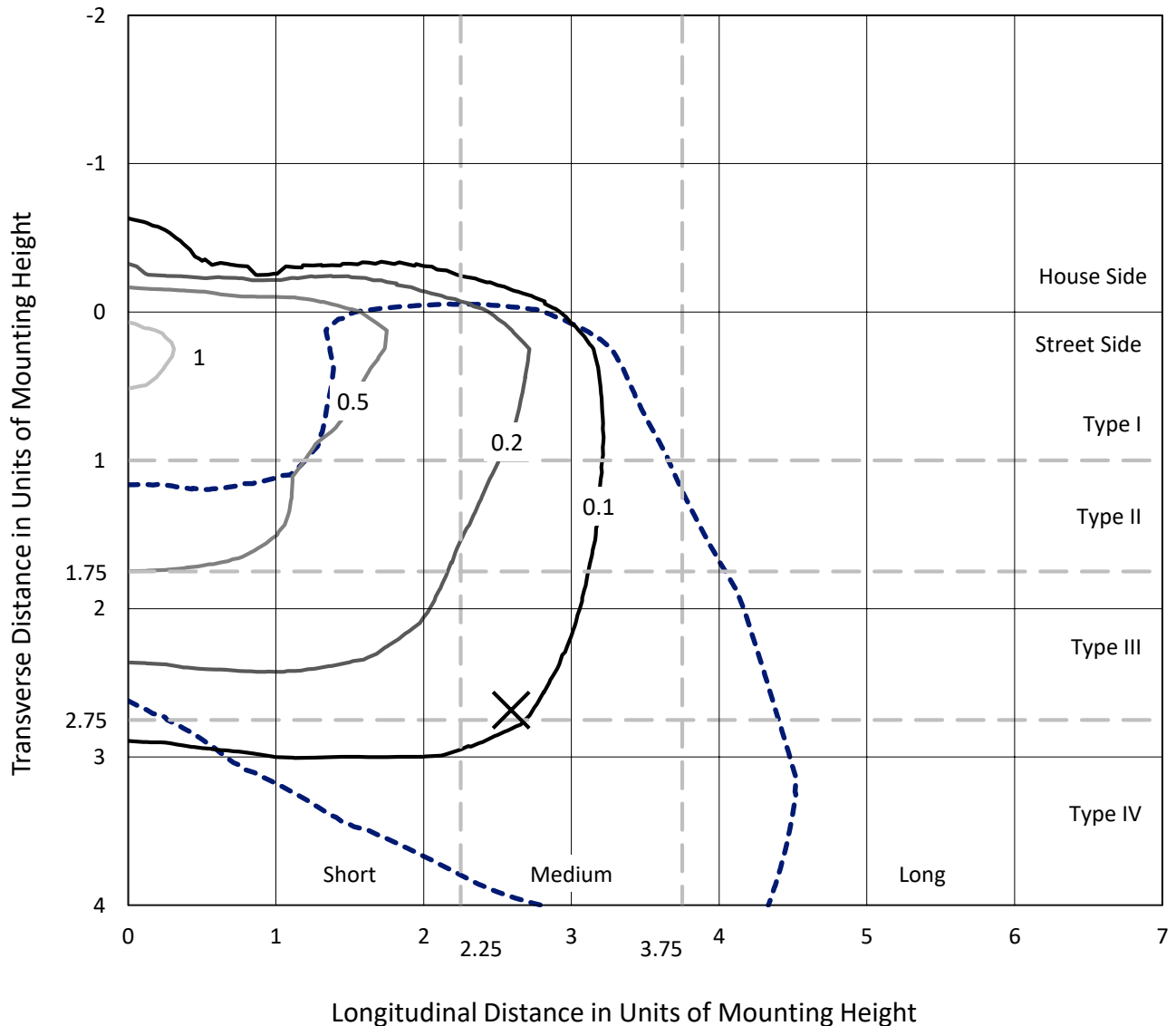
Input Watts (W): 64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397956
 CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

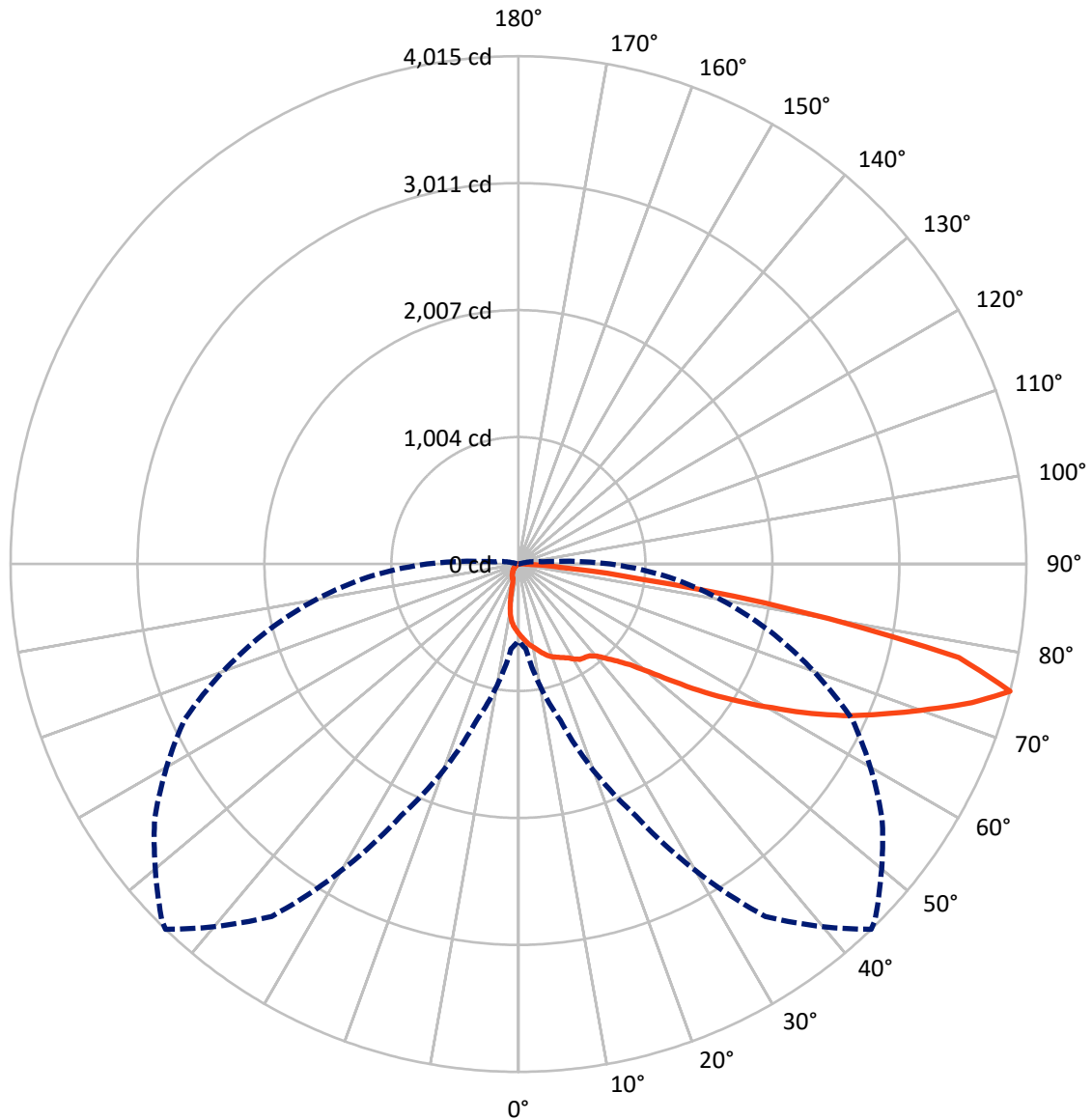


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P397956

CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



REPORT NUMBER: P397956

CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

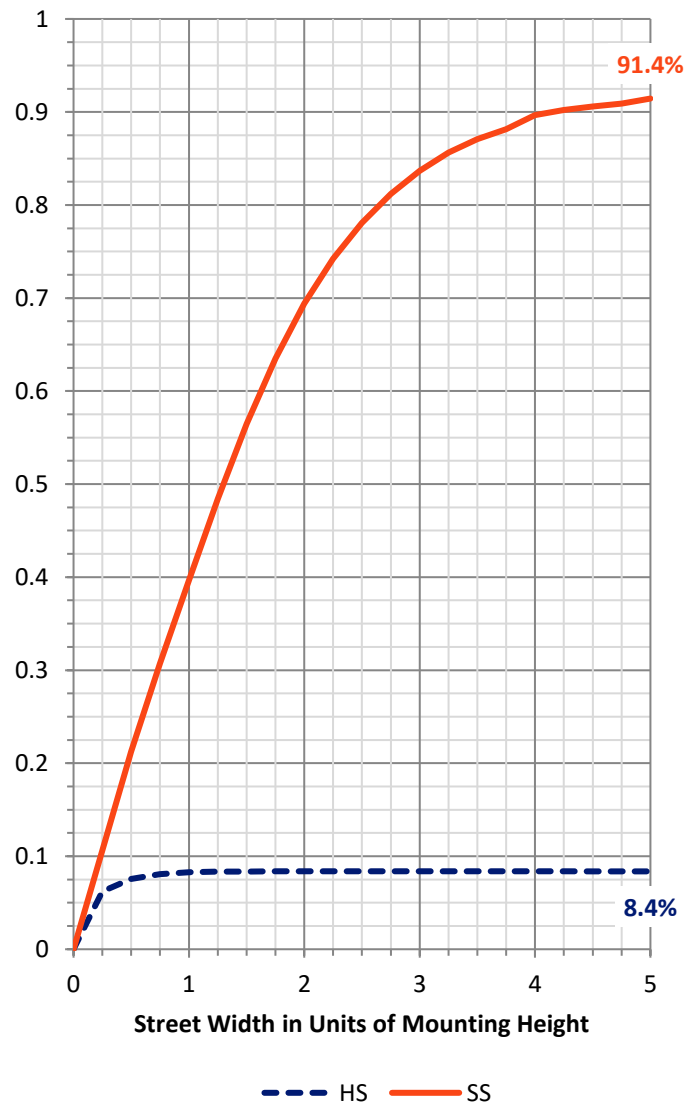
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.4	0.0	426.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4629.6	0.0	4629.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	5056.0	0.0	5056.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.0
10°-20°	145.4	2.9
20°-30°	240.0	4.7
30°-40°	348.3	6.9
40°-50°	566.2	11.2
50°-60°	998.2	19.7
60°-70°	1434.6	28.4
70°-80°	1148.8	22.7
80°-90°	122.4	2.4
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°	5056.0	100.0
0°-180°	5056.0	100.0



REPORT NUMBER: P397956

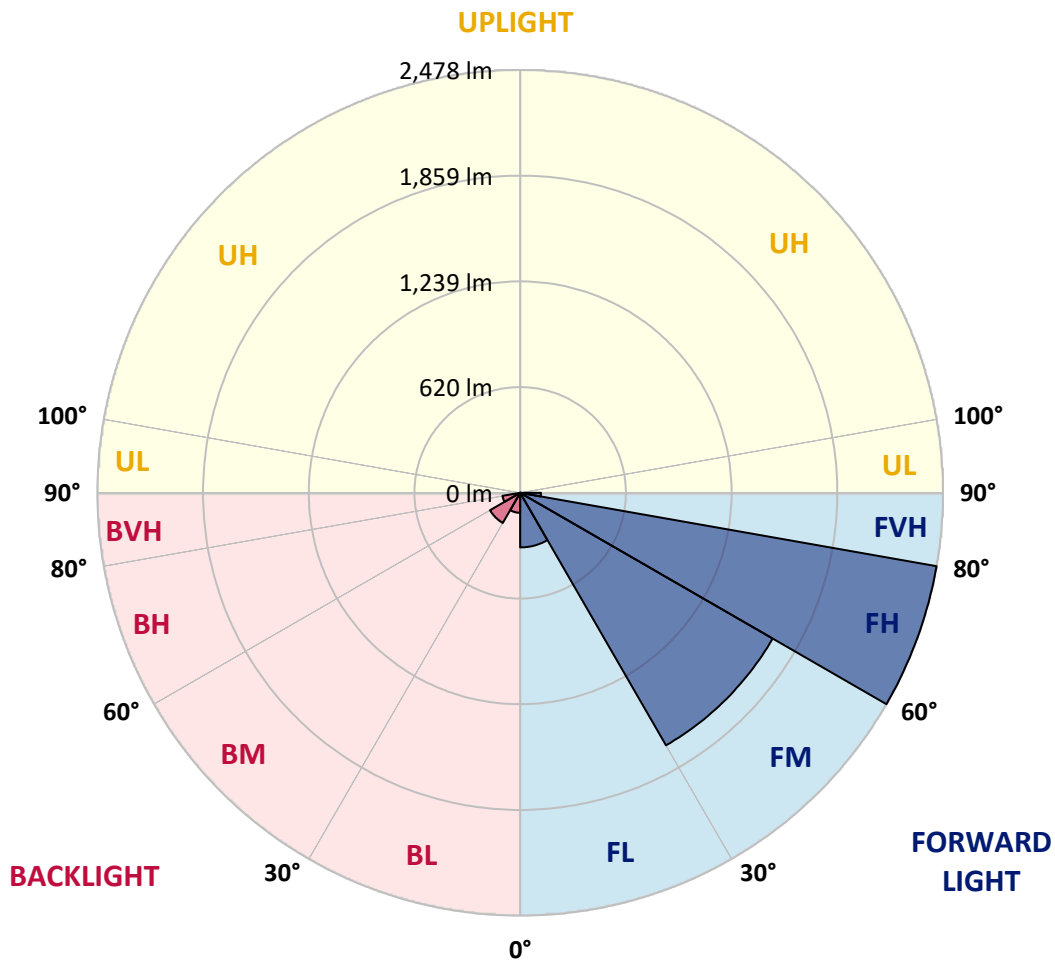
CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.2	6.3			
FM	(30°-60°)	1709.0	33.8			
FH	(60°-80°)	2478.4	49.0			G2/5000
FVH	(80°-90°)	122.1	2.4			G2/225
BL	(0°-30°)	117.1	2.3	B1/500		
BM	(30°-60°)	203.8	4.0	B0/220		
BH	(60°-80°)	105.1	2.1	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G2

Type IV Medium





REPORT NUMBER: P397956

CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	599.8	598.8	596.0	591.4	586.7	582.0	581.1	573.6	565.3	558.7	553.1
5°	652.9	652.0	647.3	637.1	626.8	614.7	613.8	596.0	580.2	562.5	547.5
7.5°	708.0	706.1	697.7	681.8	664.1	645.5	643.6	617.5	594.2	570.8	549.4
10°	750.9	749.0	736.9	718.2	694.0	670.7	667.9	640.8	617.5	587.6	558.7
12.5°	792.8	789.1	773.3	752.7	722.9	700.5	697.7	669.7	641.7	611.0	575.5
15°	832.0	827.4	812.4	786.3	754.6	733.1	731.3	701.4	672.5	637.1	597.9
17.5°	859.1	857.2	839.5	810.6	779.8	762.1	760.2	729.4	700.5	663.2	621.2
20°	873.1	873.1	856.3	824.6	796.6	784.4	781.7	752.7	724.8	689.3	645.5
22.5°	875.9	878.7	865.6	831.1	810.6	800.3	798.4	773.3	746.2	713.6	672.5
25°	881.5	881.5	874.9	837.6	822.7	819.9	819.0	796.6	772.3	739.7	699.6
27.5°	888.0	888.0	883.3	846.9	841.3	840.4	839.5	829.2	809.6	771.4	731.3
30°	904.8	905.7	902.0	865.6	861.9	872.1	874.0	868.4	844.1	796.6	763.9
32.5°	946.7	938.4	928.1	878.7	885.2	898.2	899.2	888.0	861.9	823.6	803.1
35°	1052.1	1002.7	956.1	889.8	892.6	905.7	907.6	906.6	890.8	858.1	847.9
37.5°	1150.1	1080.1	1013.9	916.0	906.6	920.6	924.4	940.2	928.1	905.7	908.5
40°	1207.0	1179.9	1133.3	987.8	934.6	956.1	959.8	984.1	979.4	970.1	987.8
42.5°	1382.3	1384.2	1333.8	1095.1	985.9	1020.4	1025.1	1044.7	1051.2	1055.9	1098.8
45°	1585.7	1592.2	1580.1	1288.1	1082.9	1094.1	1100.7	1126.8	1151.0	1180.9	1259.2
47.5°	1830.1	1824.5	1779.7	1524.1	1251.8	1189.3	1193.9	1244.3	1286.3	1351.6	1463.5
50°	2046.5	2060.5	1975.6	1744.3	1489.6	1339.4	1334.8	1384.2	1459.8	1551.2	1692.0
52.5°	2264.7	2244.2	2129.5	1962.5	1771.3	1543.7	1529.7	1556.8	1663.1	1771.3	1915.9
55°	2322.6	2324.4	2285.3	2201.3	2006.4	1791.8	1768.5	1766.6	1899.1	1972.8	2150.9
57.5°	2436.4	2441.0	2450.4	2467.1	2374.8	2039.9	2015.7	1989.6	2118.3	2161.2	2386.9
60°	2552.0	2557.6	2614.5	2705.0	2643.4	2307.6	2281.5	2220.0	2291.8	2349.6	2635.0
62.5°	2537.1	2576.3	2741.4	2921.4	2913.9	2601.5	2568.8	2420.5	2466.2	2516.6	2862.6
65°	2290.9	2332.8	2704.1	2981.1	3185.4	2891.5	2838.4	2627.6	2630.4	2691.0	3081.8
67.5°	2070.7	2116.4	2470.9	2955.9	3364.5	3151.8	3096.8	2835.6	2791.7	2892.5	3199.4
70°	1943.9	1989.6	2285.3	2877.6	3414.8	3440.0	3392.4	3073.4	2983.9	3076.2	3067.8
72.5°	1521.3	1593.1	2048.3	2728.3	3468.9	3748.7	3711.4	3374.7	3147.1	2884.1	2335.6
75°	606.3	672.5	1278.8	2195.7	3400.8	4014.6	3985.7	3510.0	2913.0	2059.5	1195.8
77.5°	182.8	195.9	355.4	1085.7	2493.3	3559.4	3550.1	2951.2	2061.4	956.1	326.5
80°	60.6	67.2	109.1	299.4	1138.0	2223.7	2265.7	1880.4	936.5	219.2	66.2
82.5°	25.2	28.0	55.0	120.3	403.0	957.9	943.9	842.3	326.5	136.2	24.3
85°	6.5	8.4	25.2	69.0	147.4	330.2	347.0	282.6	184.7	112.9	7.5
87.5°	0.0	0.0	12.1	28.0	66.2	99.8	104.5	85.8	104.5	84.9	3.7
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: P397956

CATALOG NUMBER: ARCH-S-PA1-60-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	548.5	543.8	535.4	529.8	522.3	520.5	516.7	512.1	511.2	506.5	507.4
5°	539.1	531.7	516.7	506.5	494.4	490.6	484.1	479.4	475.7	469.2	470.1
7.5°	537.3	526.1	505.6	486.0	466.4	452.4	432.8	416.9	403.9	389.9	392.7
10°	543.8	529.8	500.9	473.8	438.4	393.6	342.3	308.7	292.0	275.2	277.0
12.5°	556.9	540.1	502.8	461.7	389.9	313.4	242.5	196.8	184.7	177.2	178.2
15°	576.4	555.9	508.4	438.4	324.6	226.7	161.4	141.8	146.4	149.2	149.2
17.5°	597.0	573.6	513.0	396.4	250.9	158.6	131.5	129.7	136.2	142.7	142.7
20°	622.1	592.3	513.9	343.3	181.0	128.7	124.1	124.1	128.7	136.2	136.2
22.5°	646.4	612.8	505.6	282.6	138.0	119.4	119.4	119.4	122.2	129.7	130.6
25°	675.3	638.0	487.8	218.3	118.5	113.8	113.8	114.7	116.6	123.1	124.1
27.5°	706.1	664.1	458.0	159.5	108.2	107.3	108.2	109.1	110.1	116.6	118.5
30°	741.5	693.0	419.7	119.4	98.9	98.9	101.7	103.5	103.5	109.1	111.0
32.5°	782.6	731.3	374.0	98.9	89.5	88.6	93.3	96.1	96.1	100.7	102.6
35°	833.9	770.5	319.0	87.7	82.1	80.2	82.1	86.7	88.6	92.3	93.3
37.5°	902.0	817.1	260.2	81.1	76.5	72.8	72.8	73.7	77.4	81.1	82.1
40°	988.7	868.4	202.4	76.5	70.9	67.2	64.4	63.4	62.5	65.3	67.2
42.5°	1097.9	926.2	151.1	71.8	66.2	60.6	56.9	53.2	48.5	47.6	48.5
45°	1237.8	997.1	111.9	68.1	63.4	55.0	48.5	42.0	33.6	30.8	31.7
47.5°	1402.9	1070.8	87.7	64.4	61.6	48.5	40.1	28.9	20.5	18.7	19.6
50°	1578.2	1141.7	74.6	59.7	57.8	42.0	28.9	17.7	12.1	12.1	13.1
52.5°	1727.5	1181.8	68.1	56.0	52.2	34.5	18.7	10.3	7.5	7.5	8.4
55°	1872.0	1203.3	63.4	52.2	44.8	24.3	10.3	6.5	4.7	4.7	4.7
57.5°	2021.3	1212.6	57.8	47.6	35.4	14.9	5.6	3.7	2.8	2.8	2.8
60°	2153.7	1194.9	49.4	39.2	23.3	7.5	2.8	2.8	1.9	0.9	0.9
62.5°	2264.7	1161.3	34.5	28.0	14.0	3.7	1.9	0.9	0.0	0.0	0.0
65°	2332.8	1107.2	22.4	18.7	8.4	2.8	0.9	0.0	0.0	0.0	0.0
67.5°	2313.2	1005.5	14.0	12.1	3.7	1.9	0.9	0.0	0.0	0.0	0.0
70°	2087.5	824.6	10.3	7.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1504.5	557.8	7.5	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	723.8	198.7	4.7	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	177.2	43.8	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.2	8.4	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.1	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.9	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)