

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: P397902

Luminaire Tested: **ARCH-S-PA1-60-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397902
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-PA1-60-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5320 lumens
Efficiency: N/A
Efficacy: 83.1 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

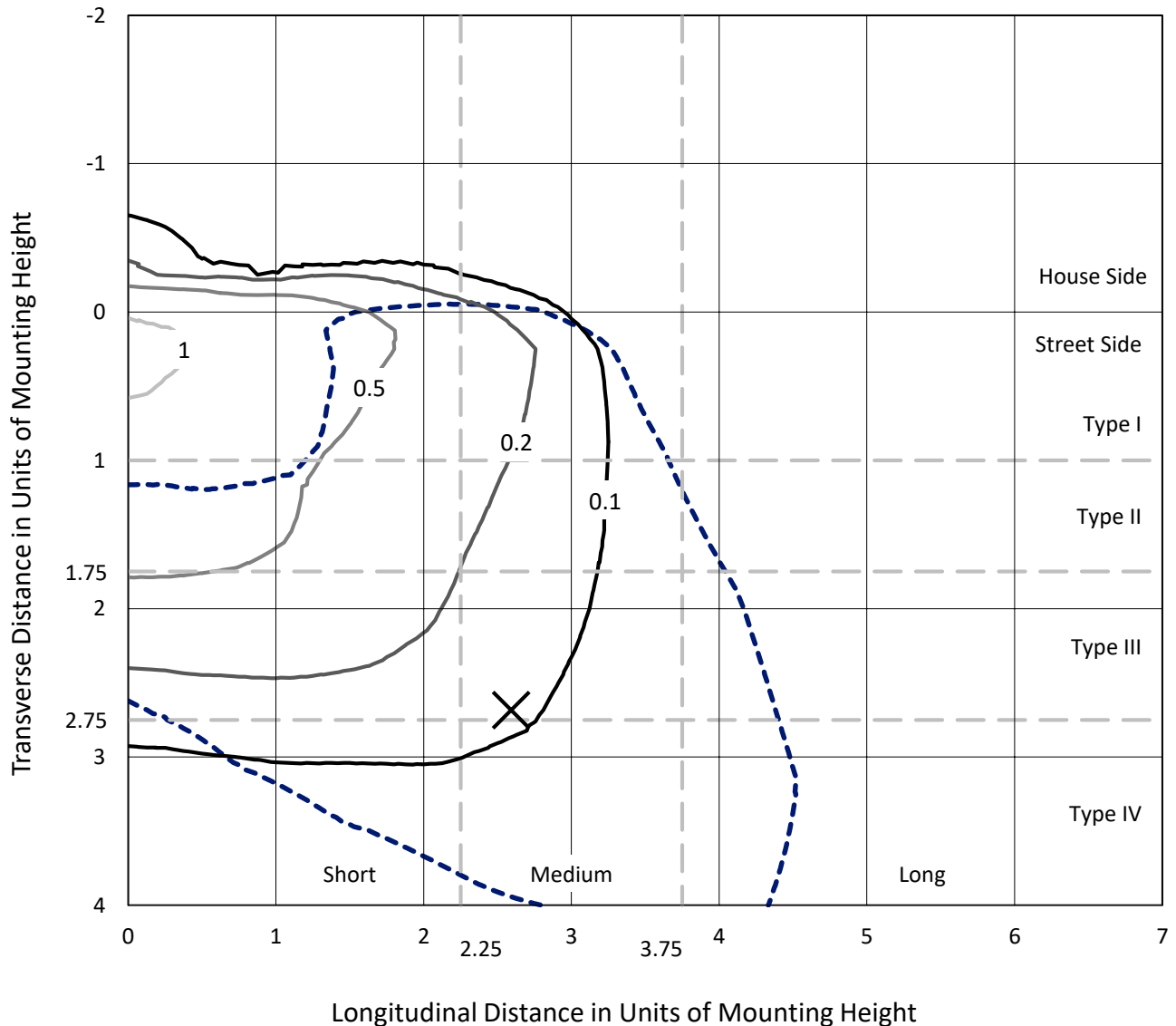
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

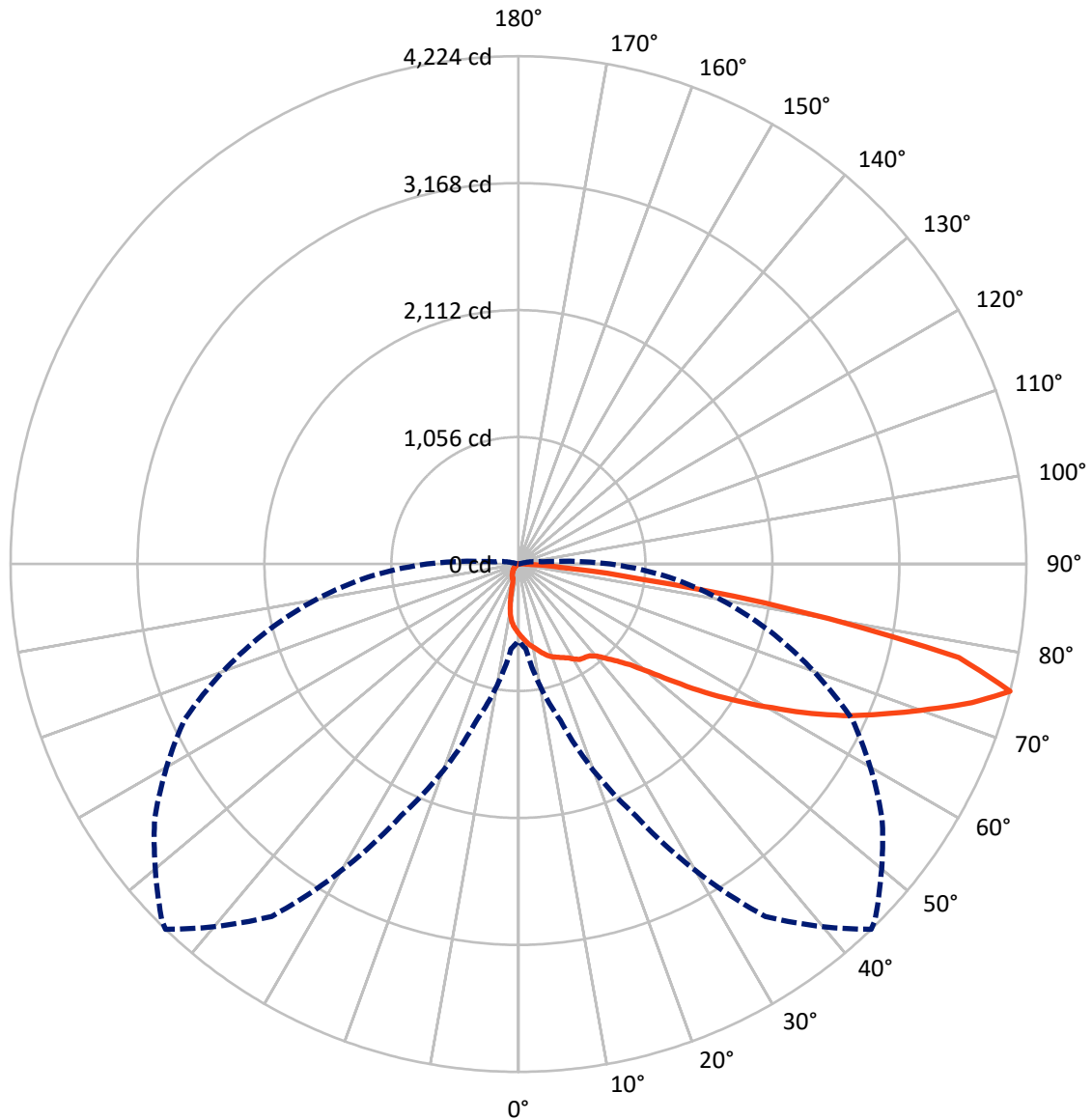


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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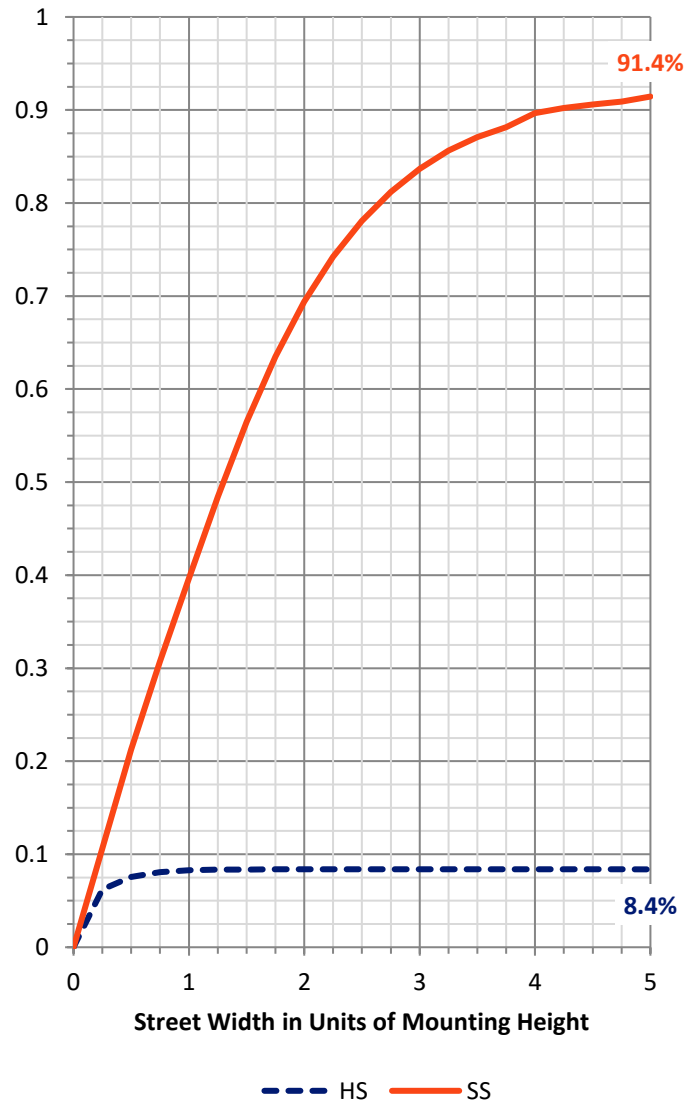
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.7	0.0	448.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4871.3	0.0	4871.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5320.0	0.0	5320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.0
10°-20°	153.0	2.9
20°-30°	252.5	4.7
30°-40°	366.5	6.9
40°-50°	595.8	11.2
50°-60°	1050.3	19.7
60°-70°	1509.6	28.4
70°-80°	1208.8	22.7
80°-90°	128.8	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°	5320.0	100.0
0°-180°	5320.0	100.0

Coefficient of Utilization



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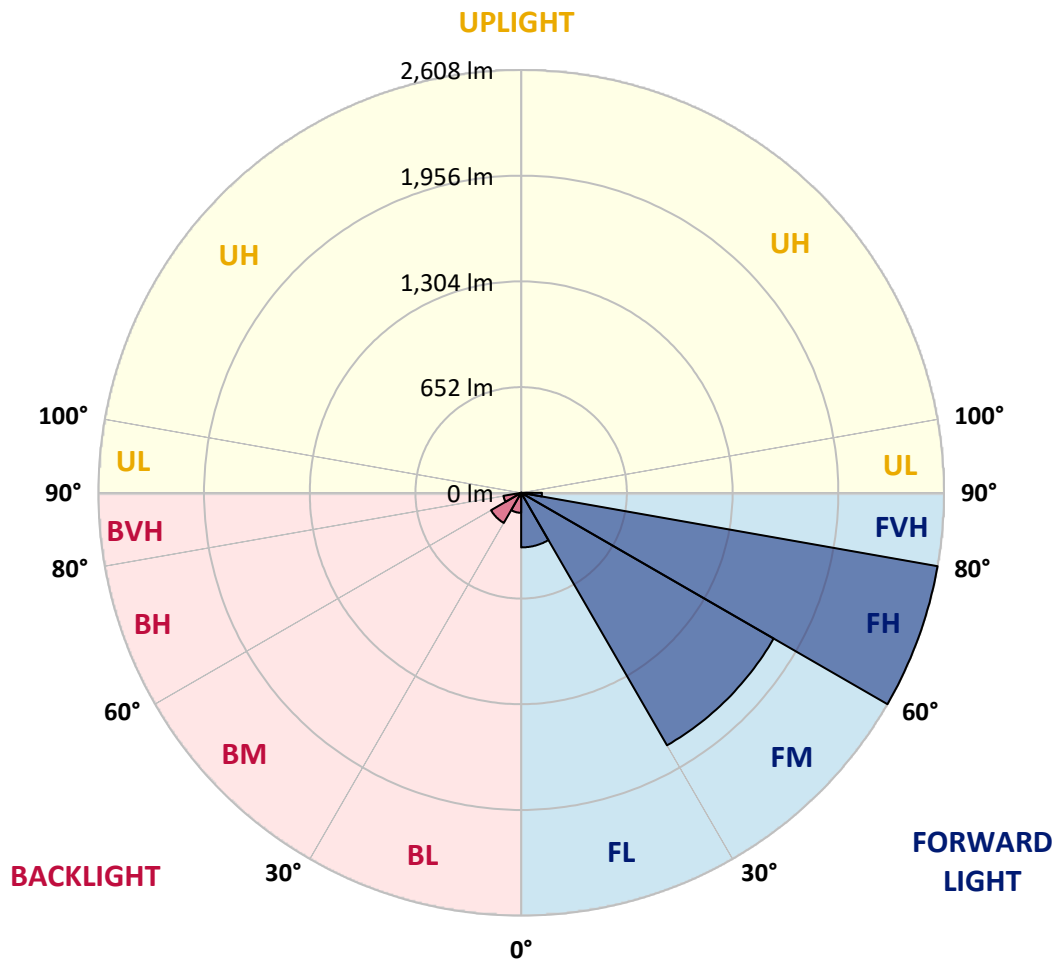
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.9	6.3			
FM	(30°-60°)	1798.2	33.8			
FH	(60°-80°)	2607.8	49.0			G2/5000
FVH	(80°-90°)	128.5	2.4			G2/225
BL	(0°-30°)	123.3	2.3	B1/500		
BM	(30°-60°)	214.5	4.0	B0/220		
BH	(60°-80°)	110.6	2.1	B1/500		G1/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	631.1	630.1	627.2	622.2	617.3	612.4	611.5	603.6	594.8	587.9	582.0
5°	687.0	686.0	681.1	670.3	659.5	646.8	645.8	627.2	610.5	591.8	576.1
7.5°	744.9	743.0	734.1	717.4	698.8	679.2	677.2	649.7	625.2	600.7	578.1
10°	790.1	788.1	775.4	755.7	730.2	705.7	702.7	674.3	649.7	618.3	587.9
12.5°	834.2	830.3	813.6	792.0	760.6	737.1	734.1	704.7	675.2	642.9	605.6
15°	875.5	870.6	854.9	827.4	794.0	771.4	769.5	738.1	707.6	670.3	629.1
17.5°	903.9	902.0	883.3	852.9	820.5	801.9	799.9	767.5	737.1	697.8	653.7
20°	918.6	918.6	901.0	867.6	838.2	825.4	822.5	792.0	762.6	725.3	679.2
22.5°	921.6	924.5	910.8	874.5	852.9	842.1	840.1	813.6	785.2	750.8	707.6
25°	927.5	927.5	920.6	881.4	865.6	862.7	861.7	838.2	812.6	778.3	736.1
27.5°	934.4	934.4	929.4	891.2	885.3	884.3	883.3	872.5	851.9	811.7	769.5
30°	952.0	953.0	949.1	910.8	906.9	917.7	919.6	913.7	888.2	838.2	803.8
32.5°	996.2	987.3	976.6	924.5	931.4	945.1	946.1	934.4	906.9	866.6	845.0
35°	1107.1	1055.1	1006.0	936.3	939.3	953.0	955.0	954.0	937.3	902.9	892.1
37.5°	1210.1	1136.5	1066.8	963.8	954.0	968.7	972.6	989.3	976.6	953.0	955.9
40°	1270.0	1241.5	1192.5	1039.4	983.4	1006.0	1009.9	1035.4	1030.5	1020.7	1039.4
42.5°	1454.5	1456.5	1403.5	1152.2	1037.4	1073.7	1078.6	1099.2	1106.1	1111.0	1156.2
45°	1668.5	1675.4	1662.6	1355.4	1139.5	1151.3	1158.1	1185.6	1211.1	1242.5	1325.0
47.5°	1925.6	1919.7	1872.6	1603.7	1317.1	1251.4	1256.3	1309.3	1353.4	1422.1	1539.9
50°	2153.3	2168.0	2078.7	1835.3	1567.4	1409.4	1404.5	1456.5	1536.0	1632.2	1780.4
52.5°	2383.0	2361.4	2240.7	2065.0	1863.8	1624.3	1609.6	1638.1	1749.9	1863.8	2015.9
55°	2443.8	2445.8	2404.6	2316.2	2111.1	1885.4	1860.8	1858.9	1998.3	2075.8	2263.2
57.5°	2563.6	2568.5	2578.3	2596.0	2498.8	2146.5	2120.9	2093.5	2228.9	2274.0	2511.6
60°	2685.3	2691.2	2751.0	2846.2	2781.5	2428.1	2400.7	2335.9	2411.4	2472.3	2772.6
62.5°	2669.6	2710.8	2884.5	3073.9	3066.1	2737.3	2702.9	2546.9	2595.0	2648.0	3012.1
65°	2410.5	2454.6	2845.3	3136.7	3351.7	3042.5	2986.6	2764.8	2767.7	2831.5	3242.7
67.5°	2178.8	2226.9	2599.9	3110.2	3540.1	3316.4	3258.4	2983.6	2937.5	3043.5	3366.4
70°	2045.4	2093.5	2404.6	3027.8	3593.1	3619.6	3569.6	3233.9	3139.7	3236.9	3228.0
72.5°	1600.8	1676.3	2155.3	2870.8	3650.1	3944.5	3905.2	3550.9	3311.4	3034.7	2457.6
75°	637.9	707.6	1345.6	2310.4	3578.4	4224.2	4193.8	3693.2	3065.1	2167.1	1258.2
77.5°	192.4	206.1	373.9	1142.4	2623.4	3745.3	3735.4	3105.3	2169.0	1006.0	343.5
80°	63.8	70.7	114.8	315.0	1197.4	2339.8	2384.0	1978.6	985.4	230.6	69.7
82.5°	26.5	29.4	57.9	126.6	424.0	1008.0	993.2	886.3	343.5	143.3	25.5
85°	6.9	8.8	26.5	72.6	155.1	347.4	365.1	297.4	194.3	118.8	7.9
87.5°	0.0	0.0	12.8	29.4	69.7	105.0	109.9	90.3	109.9	89.3	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1	579.1
2.5°	577.1	572.2	563.4	557.5	549.6	547.7	543.7	538.8	537.8	532.9	533.9
5°	567.3	559.4	543.7	532.9	520.2	516.2	509.4	504.5	500.5	493.7	494.7
7.5°	565.3	553.5	532.0	511.3	490.7	476.0	455.4	438.7	425.0	410.3	413.2
10°	572.2	557.5	527.0	498.6	461.3	414.2	360.2	324.9	307.2	289.5	291.5
12.5°	585.9	568.3	529.0	485.8	410.3	329.8	255.2	207.1	194.3	186.5	187.5
15°	606.5	585.0	534.9	461.3	341.5	238.5	169.8	149.2	154.1	157.0	157.0
17.5°	628.1	603.6	539.8	417.1	264.0	166.8	138.4	136.4	143.3	150.2	150.2
20°	654.6	623.2	540.8	361.2	190.4	135.4	130.5	130.5	135.4	143.3	143.3
22.5°	680.2	644.8	532.0	297.4	145.3	125.6	125.6	125.6	128.6	136.4	137.4
25°	710.6	671.3	513.3	229.7	124.6	119.7	119.7	120.7	122.7	129.6	130.5
27.5°	743.0	698.8	481.9	167.8	113.8	112.9	113.8	114.8	115.8	122.7	124.6
30°	780.3	729.2	441.7	125.6	104.0	104.0	107.0	108.9	108.9	114.8	116.8
32.5°	823.4	769.5	393.6	104.0	94.2	93.2	98.1	101.1	101.1	106.0	108.0
35°	877.4	810.7	335.7	92.3	86.4	84.4	86.4	91.3	93.2	97.2	98.1
37.5°	949.1	859.8	273.8	85.4	80.5	76.6	76.6	77.5	81.5	85.4	86.4
40°	1040.3	913.7	213.0	80.5	74.6	70.7	67.7	66.7	65.8	68.7	70.7
42.5°	1155.2	974.6	159.0	75.6	69.7	63.8	59.9	55.9	51.0	50.1	51.0
45°	1302.4	1049.2	117.8	71.6	66.7	57.9	51.0	44.2	35.3	32.4	33.4
47.5°	1476.1	1126.7	92.3	67.7	64.8	51.0	42.2	30.4	21.6	19.6	20.6
50°	1660.6	1201.3	78.5	62.8	60.9	44.2	30.4	18.6	12.8	12.8	13.7
52.5°	1817.7	1243.5	71.6	58.9	55.0	36.3	19.6	10.8	7.9	7.9	8.8
55°	1969.8	1266.1	66.7	55.0	47.1	25.5	10.8	6.9	4.9	4.9	4.9
57.5°	2126.8	1275.9	60.9	50.1	37.3	15.7	5.9	3.9	2.9	2.9	2.9
60°	2266.2	1257.3	52.0	41.2	24.5	7.9	2.9	2.9	2.0	1.0	1.0
62.5°	2383.0	1221.9	36.3	29.4	14.7	3.9	2.0	1.0	0.0	0.0	0.0
65°	2454.6	1165.0	23.6	19.6	8.8	2.9	1.0	0.0	0.0	0.0	0.0
67.5°	2434.0	1058.0	14.7	12.8	3.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	2196.5	867.6	10.8	7.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1583.1	586.9	7.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	761.6	209.1	4.9	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	186.5	46.1	2.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.2	8.8	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.0	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)