

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: P397947

Luminaire Tested: **ARCH-S-PA1-60-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397947
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-PA1-60-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 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: 4677 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G2

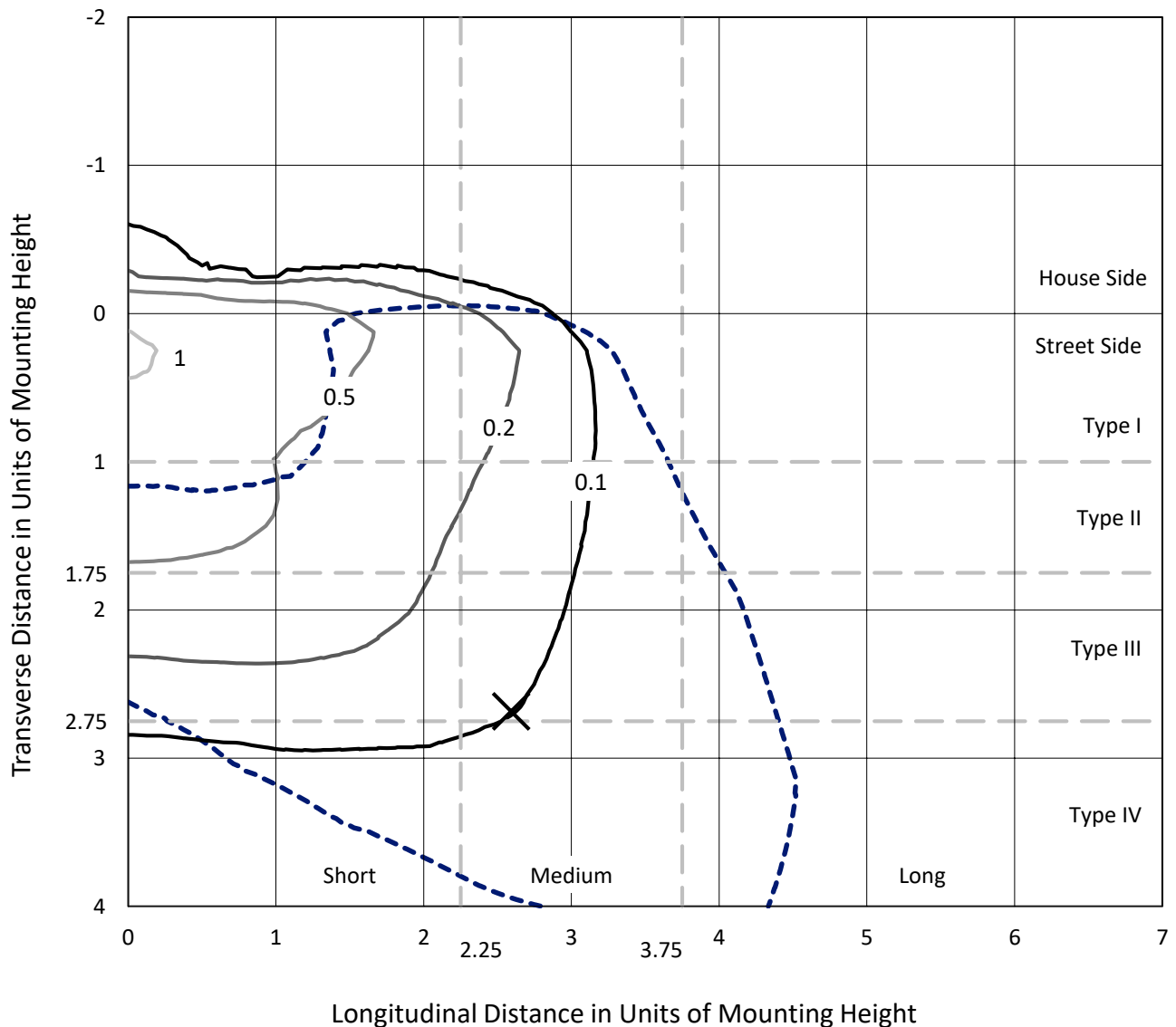
Input Watts (W): 64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

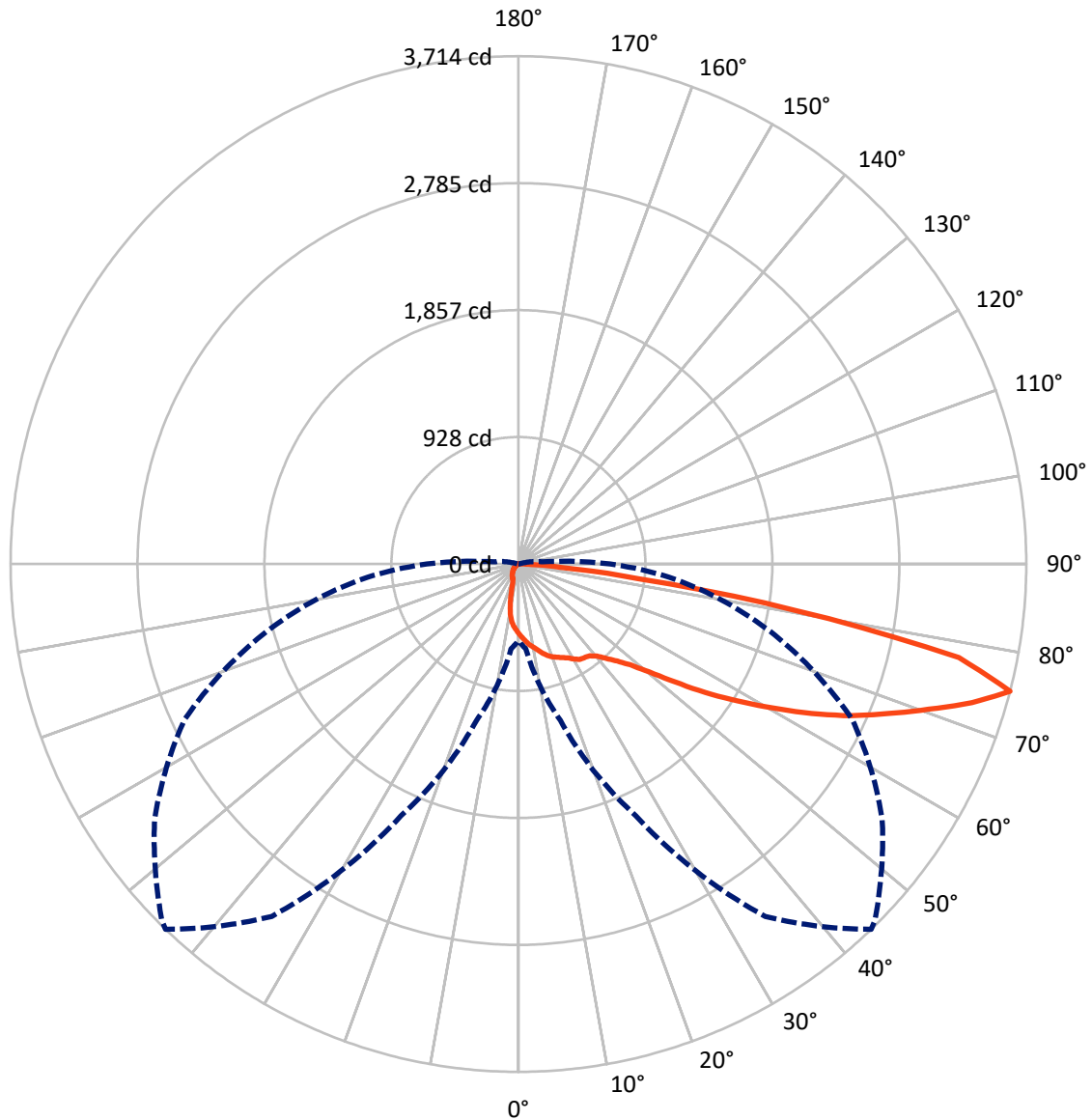


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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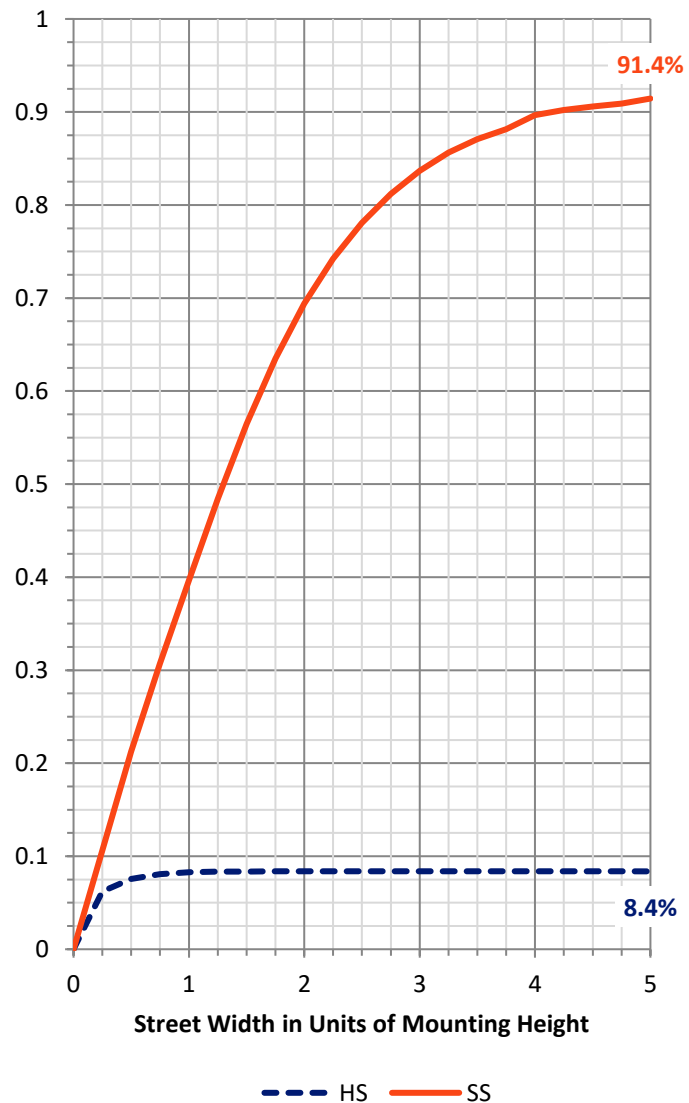
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.4	0.0	394.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4282.6	0.0	4282.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	4677.0	0.0	4677.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	1.0
10°-20°	134.5	2.9
20°-30°	222.0	4.7
30°-40°	322.2	6.9
40°-50°	523.8	11.2
50°-60°	923.4	19.7
60°-70°	1327.1	28.4
70°-80°	1062.7	22.7
80°-90°	113.2	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°	4677.0	100.0
0°-180°	4677.0	100.0



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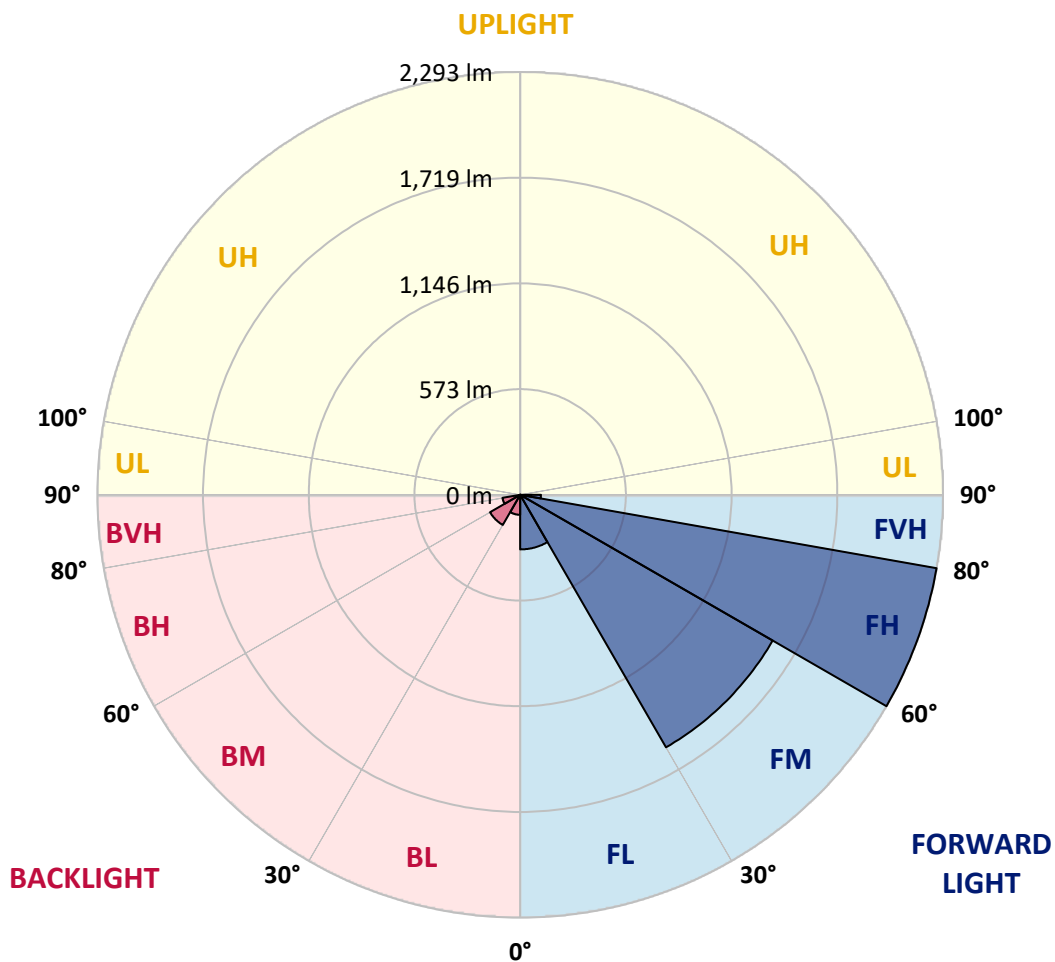
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	296.2	6.3			
FM	(30°-60°)	1580.9	33.8			
FH	(60°-80°)	2292.6	49.0			G2/5000
FVH	(80°-90°)	112.9	2.4			G2/225
BL	(0°-30°)	108.4	2.3	B0/110		
BM	(30°-60°)	188.5	4.0	B0/220		
BH	(60°-80°)	97.2	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: B0-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
2.5°	554.8	553.9	551.4	547.0	542.7	538.4	537.5	530.6	522.9	516.8	511.7
5°	604.0	603.1	598.8	589.3	579.8	568.6	567.7	551.4	536.7	520.3	506.5
7.5°	654.9	653.2	645.4	630.7	614.3	597.1	595.4	571.2	549.6	528.1	508.2
10°	694.6	692.9	681.6	664.4	642.0	620.4	617.8	592.8	571.2	543.6	516.8
12.5°	733.4	730.0	715.3	696.3	668.7	648.0	645.4	619.5	593.6	565.2	532.4
15°	769.7	765.3	751.5	727.4	698.0	678.2	676.5	648.9	622.1	589.3	553.1
17.5°	794.7	792.9	776.6	749.8	721.3	704.9	703.2	674.7	648.0	613.5	574.6
20°	807.6	807.6	792.1	762.7	736.9	725.6	723.1	696.3	670.4	637.6	597.1
22.5°	810.2	812.8	800.7	768.8	749.8	740.3	738.6	715.3	690.3	660.1	622.1
25°	815.4	815.4	809.3	774.8	761.0	758.4	757.6	736.9	714.4	684.2	647.1
27.5°	821.4	821.4	817.1	783.5	778.3	777.4	776.6	767.1	748.9	713.6	676.5
30°	837.0	837.8	834.4	800.7	797.3	806.8	808.5	803.3	780.9	736.9	706.7
32.5°	875.8	868.0	858.5	812.8	818.8	830.9	831.8	821.4	797.3	761.9	742.9
35°	973.3	927.5	884.4	823.1	825.7	837.8	839.5	838.7	824.0	793.8	784.3
37.5°	1063.9	999.2	937.9	847.3	838.7	851.6	855.1	869.7	858.5	837.8	840.4
40°	1116.5	1091.5	1048.3	913.7	864.6	884.4	887.9	910.3	906.0	897.4	913.7
42.5°	1278.7	1280.4	1233.9	1013.0	912.0	943.9	948.3	966.4	972.4	976.7	1016.4
45°	1466.8	1472.9	1461.6	1191.6	1001.8	1012.1	1018.1	1042.3	1064.7	1092.4	1164.8
47.5°	1692.9	1687.7	1646.3	1409.9	1157.9	1100.1	1104.4	1151.0	1189.9	1250.3	1353.8
50°	1893.1	1906.0	1827.5	1613.5	1378.0	1239.0	1234.7	1280.4	1350.3	1434.9	1565.2
52.5°	2095.0	2076.0	1969.9	1815.4	1638.5	1428.0	1415.1	1440.1	1538.4	1638.5	1772.3
55°	2148.5	2150.2	2114.0	2036.3	1856.0	1657.5	1635.9	1634.2	1756.7	1824.9	1989.7
57.5°	2253.7	2258.0	2266.7	2282.2	2196.8	1887.0	1864.6	1840.4	1959.5	1999.2	2208.0
60°	2360.7	2365.9	2418.5	2502.2	2445.3	2134.7	2110.5	2053.6	2120.0	2173.5	2437.5
62.5°	2346.9	2383.2	2535.9	2702.4	2695.5	2406.5	2376.3	2239.1	2281.3	2327.9	2648.0
65°	2119.1	2158.0	2501.4	2757.6	2946.6	2674.8	2625.6	2430.6	2433.2	2489.3	2850.8
67.5°	1915.5	1957.8	2285.7	2734.3	3112.3	2915.5	2864.6	2623.0	2582.5	2675.7	2959.5
70°	1798.2	1840.4	2114.0	2661.9	3158.8	3182.1	3138.1	2843.0	2760.2	2845.6	2837.9
72.5°	1407.3	1473.7	1894.8	2523.8	3208.9	3467.7	3433.2	3121.7	2911.2	2667.9	2160.5
75°	560.8	622.1	1182.9	2031.1	3145.9	3713.6	3686.9	3246.9	2694.6	1905.1	1106.2
77.5°	169.1	181.2	328.7	1004.3	2306.4	3292.6	3284.0	2730.0	1906.9	884.4	302.0
80°	56.1	62.1	101.0	277.0	1052.7	2057.0	2095.8	1739.5	866.3	202.8	61.3
82.5°	23.3	25.9	50.9	111.3	372.7	886.1	873.2	779.1	302.0	126.0	22.4
85°	6.0	7.8	23.3	63.8	136.3	305.4	321.0	261.4	170.8	104.4	6.9
87.5°	0.0	0.0	11.2	25.9	61.3	92.3	96.6	79.4	96.6	78.5	3.5
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°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
2.5°	507.3	503.0	495.3	490.1	483.2	481.5	478.0	473.7	472.8	468.5	469.4
5°	498.7	491.8	478.0	468.5	457.3	453.9	447.8	443.5	440.0	434.0	434.9
7.5°	497.0	486.6	467.7	449.5	431.4	418.5	400.4	385.7	373.6	360.7	363.3
10°	503.0	490.1	463.3	438.3	405.5	364.1	316.7	285.6	270.1	254.5	256.3
12.5°	515.1	499.6	465.1	427.1	360.7	289.9	224.3	182.1	170.8	163.9	164.8
15°	533.2	514.3	470.2	405.5	300.3	209.7	149.3	131.2	135.5	138.1	138.1
17.5°	552.2	530.6	474.6	366.7	232.1	146.7	121.7	119.9	126.0	132.0	132.0
20°	575.5	547.9	475.4	317.5	167.4	119.1	114.8	114.8	119.1	126.0	126.0
22.5°	597.9	566.9	467.7	261.4	127.7	110.4	110.4	110.4	113.0	119.9	120.8
25°	624.7	590.2	451.3	201.9	109.6	105.3	105.3	106.1	107.9	113.9	114.8
27.5°	653.2	614.3	423.7	147.5	100.1	99.2	100.1	101.0	101.8	107.9	109.6
30°	686.0	641.1	388.3	110.4	91.5	91.5	94.0	95.8	95.8	101.0	102.7
32.5°	723.9	676.5	346.0	91.5	82.8	82.0	86.3	88.9	88.9	93.2	94.9
35°	771.4	712.7	295.1	81.1	75.9	74.2	75.9	80.2	82.0	85.4	86.3
37.5°	834.4	755.8	240.7	75.1	70.8	67.3	67.3	68.2	71.6	75.1	75.9
40°	914.6	803.3	187.2	70.8	65.6	62.1	59.5	58.7	57.8	60.4	62.1
42.5°	1015.6	856.8	139.8	66.4	61.3	56.1	52.6	49.2	44.9	44.0	44.9
45°	1145.0	922.4	103.5	63.0	58.7	50.9	44.9	38.8	31.1	28.5	29.3
47.5°	1297.7	990.5	81.1	59.5	56.9	44.9	37.1	26.7	19.0	17.3	18.1
50°	1459.9	1056.1	69.0	55.2	53.5	38.8	26.7	16.4	11.2	11.2	12.1
52.5°	1598.0	1093.2	63.0	51.8	48.3	31.9	17.3	9.5	6.9	6.9	7.8
55°	1731.7	1113.1	58.7	48.3	41.4	22.4	9.5	6.0	4.3	4.3	4.3
57.5°	1869.8	1121.7	53.5	44.0	32.8	13.8	5.2	3.5	2.6	2.6	2.6
60°	1992.3	1105.3	45.7	36.2	21.6	6.9	2.6	2.6	1.7	0.9	0.9
62.5°	2095.0	1074.2	31.9	25.9	12.9	3.5	1.7	0.9	0.0	0.0	0.0
65°	2158.0	1024.2	20.7	17.3	7.8	2.6	0.9	0.0	0.0	0.0	0.0
67.5°	2139.8	930.1	12.9	11.2	3.5	1.7	0.9	0.0	0.0	0.0	0.0
70°	1931.0	762.7	9.5	6.9	2.6	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1391.8	516.0	6.9	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	669.6	183.8	4.3	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	163.9	40.6	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.2	7.8	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	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)