

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: P265573

Luminaire Tested: **ARCH-L-AF72-90-D-U-T2R-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T2R-7027-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9065.9 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

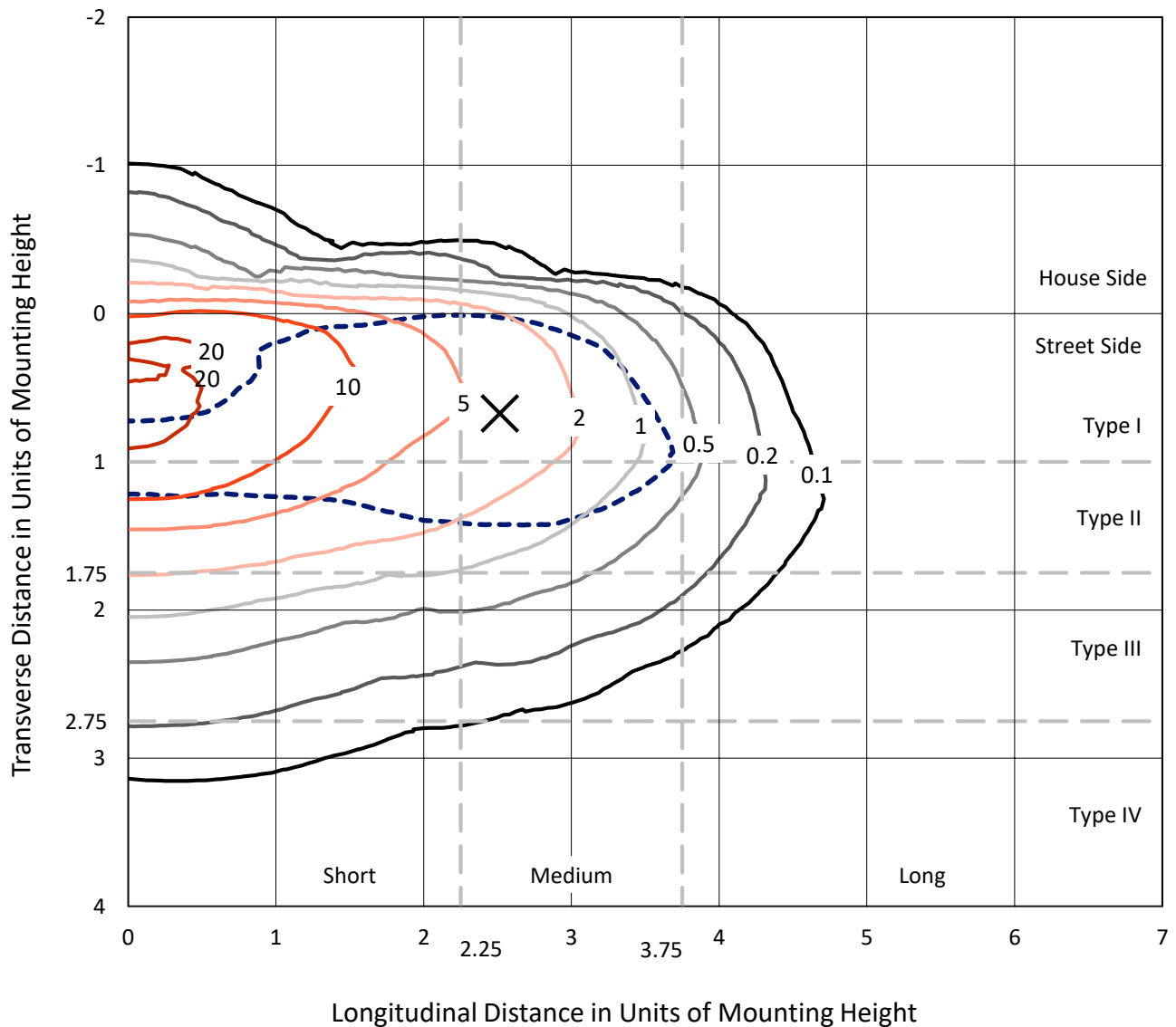


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

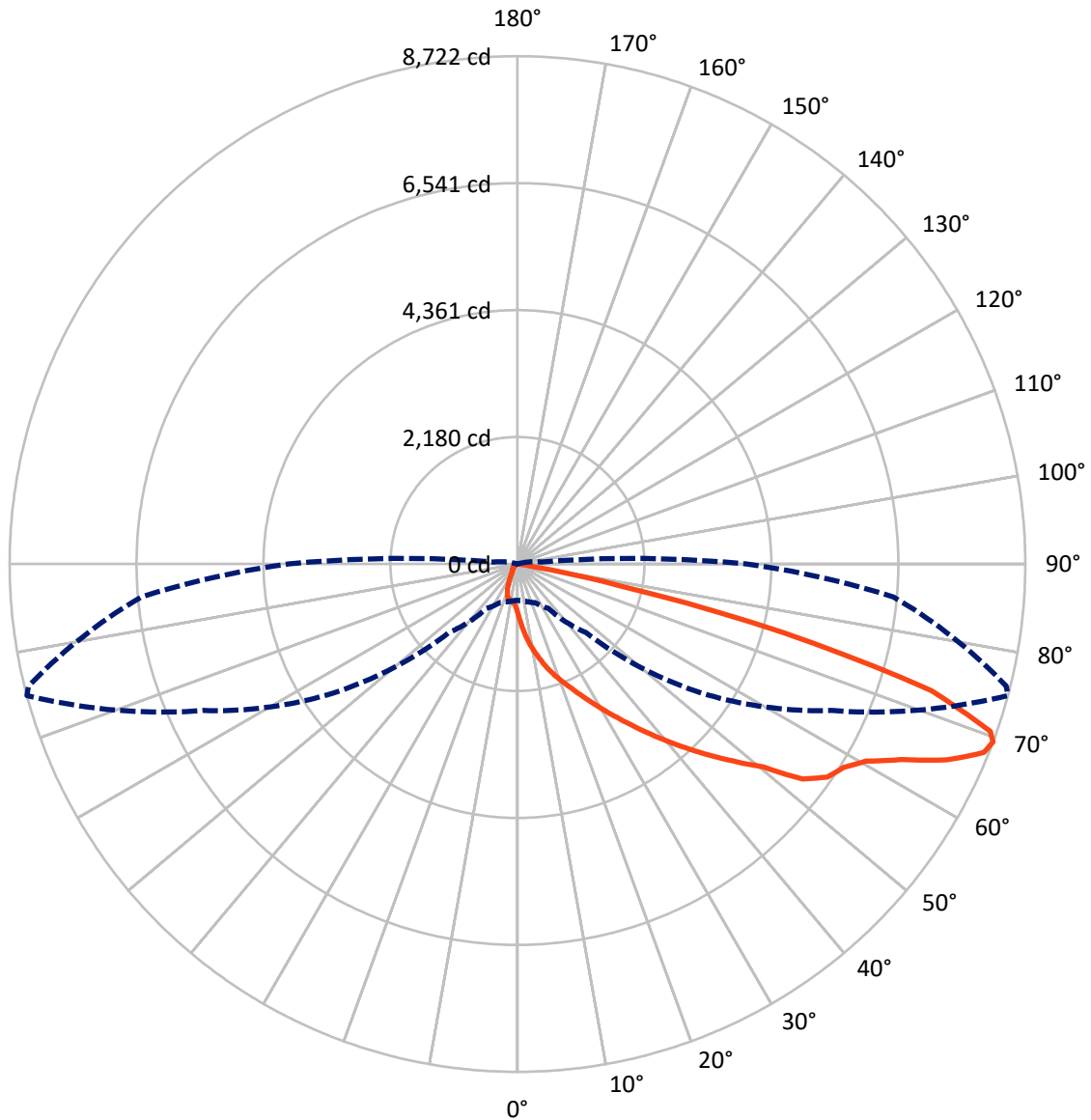


Based on 10 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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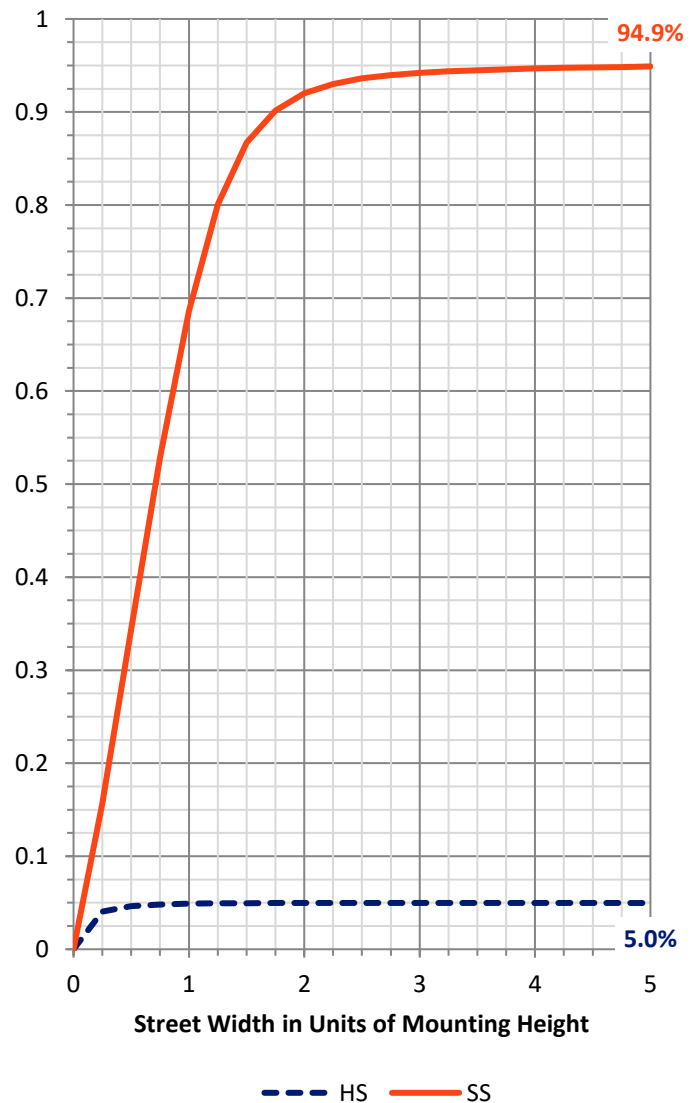
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.3	0.0	452.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8613.6	0.0	8613.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	9065.9	0.0	9065.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	1.1
10°-20°	351.7	3.9
20°-30°	671.4	7.4
30°-40°	1204.3	13.3
40°-50°	1845.1	20.4
50°-60°	2144.4	23.7
60°-70°	1898.9	20.9
70°-80°	819.1	9.0
80°-90°	32.8	0.4
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°	9065.9	100.0
0°-180°	9065.9	100.0

Coefficient of Utilization



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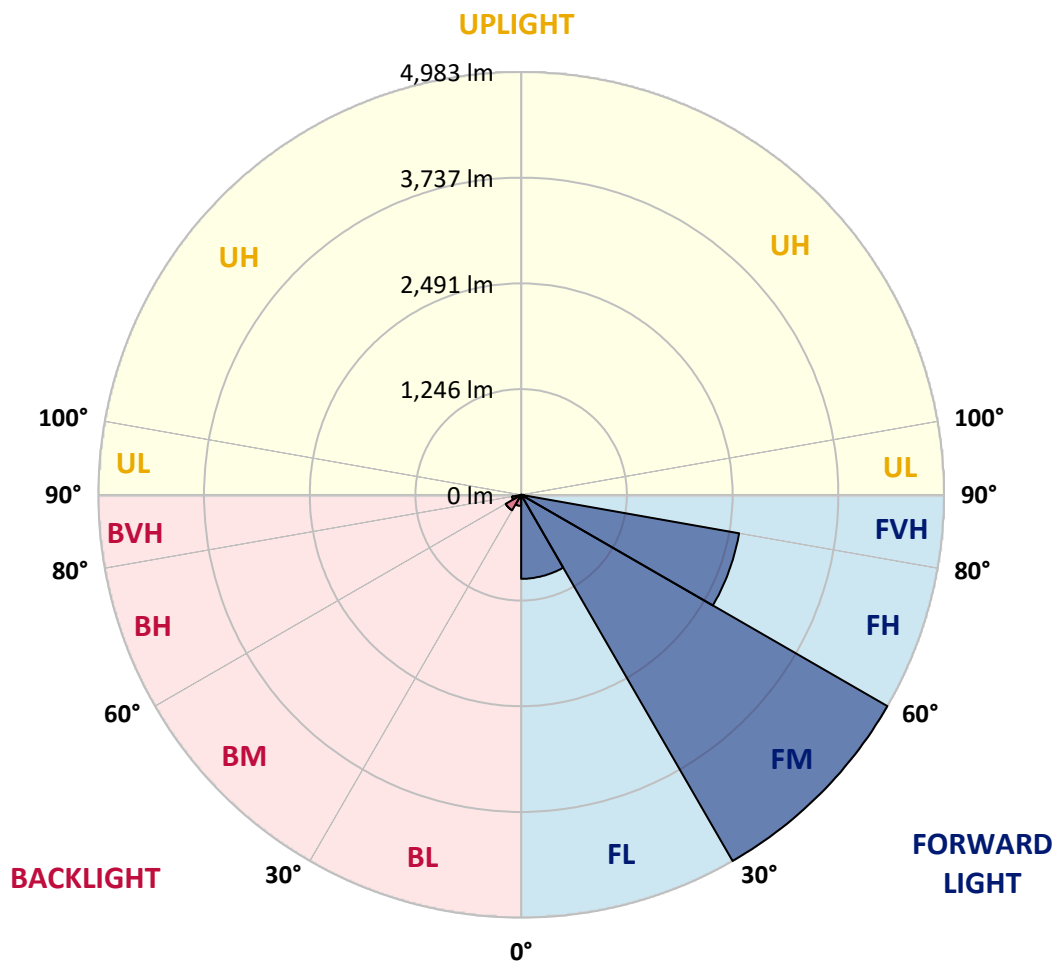
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.0	10.9			
FM	(30°-60°)	4982.9	55.0			
FH	(60°-80°)	2608.4	28.8			G2/5000
FVH	(80°-90°)	32.3	0.4			G1/100
BL	(0°-30°)	131.4	1.4	B1/500		
BM	(30°-60°)	210.9	2.3	B0/220		
BH	(60°-80°)	109.6	1.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	1389.7	1375.9	1362.3	1346.6	1311.3	1250.7	1174.4	1092.2	990.4	972.8	890.6
5°	1687.1	1681.3	1667.7	1646.1	1606.9	1540.4	1454.3	1332.8	1162.6	1133.2	959.1
7.5°	1896.6	1892.6	1881.0	1855.4	1820.2	1753.8	1663.8	1532.6	1334.8	1301.6	1045.2
10°	2084.4	2082.5	2072.7	2049.3	2014.0	1941.5	1845.7	1708.7	1499.4	1462.1	1145.0
12.5°	2254.7	2256.7	2252.8	2241.1	2215.6	2147.0	2037.5	1888.7	1657.8	1616.7	1264.5
15°	2354.5	2360.4	2376.1	2399.6	2407.5	2352.7	2239.1	2074.7	1820.2	1785.0	1401.4
17.5°	2321.3	2327.1	2376.1	2456.3	2532.7	2540.5	2438.8	2250.9	1980.8	1945.5	1536.5
20°	2241.1	2248.8	2299.8	2409.4	2558.2	2661.9	2620.7	2442.8	2133.5	2090.4	1665.6
22.5°	2331.1	2331.1	2346.7	2413.2	2548.3	2710.8	2765.6	2634.5	2290.0	2237.1	1794.9
25°	2640.4	2634.5	2601.2	2573.9	2616.9	2761.7	2875.2	2830.2	2474.0	2413.2	1931.8
27.5°	3031.8	3059.2	2996.6	2896.8	2798.8	2861.6	2973.1	3024.0	2677.6	2614.8	2072.7
30°	3470.2	3482.0	3407.6	3274.5	3102.2	3041.7	3088.6	3190.3	2898.7	2830.2	2219.5
32.5°	3865.5	3855.9	3793.3	3654.2	3440.9	3309.7	3237.3	3323.4	3139.4	3061.2	2370.3
35°	4215.9	4223.8	4147.5	3986.9	3777.6	3638.6	3466.3	3474.1	3409.5	3319.5	2544.4
37.5°	4531.1	4517.3	4445.0	4284.5	4094.7	3943.9	3761.8	3630.7	3705.1	3611.1	2740.2
40°	4787.4	4773.8	4697.4	4540.8	4362.8	4239.5	4096.6	3840.2	4016.3	3908.6	2949.7
42.5°	4991.1	4975.4	4910.8	4760.1	4587.9	4478.2	4409.7	4098.5	4349.1	4241.3	3184.5
45°	5090.9	5077.2	5038.1	4924.5	4773.8	4677.8	4711.2	4396.0	4705.3	4615.2	3442.8
47.5°	4973.5	4967.5	5012.5	4993.0	4906.9	4856.0	4971.5	4721.0	5079.0	4991.1	3740.4
50°	4617.2	4627.0	4758.1	4920.6	4961.7	5022.3	5184.7	5063.4	5480.4	5386.3	4082.8
52.5°	3738.3	3805.0	4200.3	4591.7	4895.1	5124.1	5435.4	5552.8	6134.0	6042.1	4617.2
55°	2791.0	2818.4	3249.1	3918.4	4627.0	5116.2	5621.2	5840.5	6457.0	6363.1	4758.1
57.5°	2213.7	2223.5	2436.8	3120.0	4075.0	4940.1	5719.1	5944.3	6598.0	6519.7	4967.5
60°	1738.0	1749.8	1904.4	2374.2	3297.9	4464.5	5578.2	6034.3	6873.9	6811.3	5333.5
62.5°	1352.5	1364.3	1458.2	1734.2	2474.0	3732.5	5294.4	6179.1	7398.5	7369.2	5932.4
65°	1047.2	1051.0	1115.7	1244.8	1747.8	2939.9	4948.0	6314.1	8107.1	8081.5	6417.9
67.5°	773.1	779.0	824.0	904.2	1180.3	2111.8	4380.3	6210.4	8641.3	8567.0	6594.1
69°	624.3	630.3	669.3	733.9	931.6	1663.8	3861.8	5954.1	8721.6	8651.1	6482.4
70°	534.3	538.3	577.4	632.1	794.6	1413.2	3450.7	5732.9	8616.0	8547.5	6227.9
72.5°	342.6	362.0	401.3	436.4	526.4	935.6	2329.1	4754.2	7433.7	7316.2	4877.4
75°	189.8	195.7	266.2	309.2	350.3	608.7	1295.7	2965.2	4728.8	4646.6	2609.0
77.5°	156.6	160.4	187.8	234.8	234.8	340.5	489.2	1168.4	1798.8	1622.6	706.5
80°	109.7	113.5	142.9	154.6	168.3	191.8	158.6	256.3	277.9	246.7	105.7
82.5°	76.4	80.3	97.8	127.2	135.0	90.0	58.7	76.4	80.3	80.3	41.1
85°	13.7	19.6	72.5	105.7	80.3	27.4	33.2	27.4	25.4	27.4	9.8
87.5°	0.0	0.0	45.0	50.8	43.1	11.8	13.7	9.8	5.8	7.8	4.0
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°	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6	843.6
2.5°	849.4	808.4	737.9	687.1	643.9	610.7	597.0	575.5	559.7	567.5	557.8
5°	873.0	800.5	687.1	614.6	563.6	520.7	485.4	458.0	436.4	432.5	428.6
7.5°	910.2	806.4	657.6	567.5	491.3	424.7	369.9	328.8	297.5	297.5	285.8
10°	961.0	822.0	640.0	520.7	407.1	317.1	262.2	223.0	207.5	205.5	201.6
12.5°	1031.4	851.5	626.3	459.9	317.1	231.0	197.6	184.1	178.1	176.2	174.2
15°	1127.5	894.4	610.7	385.6	240.7	189.8	176.2	164.4	158.6	156.6	154.6
17.5°	1219.4	933.6	577.4	309.2	195.7	172.2	156.6	146.9	139.0	137.0	137.0
20°	1305.4	966.8	520.7	240.7	176.2	154.6	139.0	127.2	119.4	117.5	117.5
22.5°	1395.5	994.3	450.2	195.7	160.4	137.0	121.4	109.7	101.8	99.8	97.8
25°	1491.5	1013.8	369.9	174.2	144.8	121.4	103.8	94.0	88.0	86.1	84.3
27.5°	1595.2	1021.7	293.6	158.6	127.2	105.7	90.0	80.3	76.4	74.4	74.4
30°	1689.2	1013.8	227.0	140.9	111.6	91.9	78.3	70.4	66.6	64.6	64.6
32.5°	1787.0	994.3	182.0	125.3	97.8	78.3	66.6	60.6	58.7	56.8	56.8
35°	1890.8	968.8	156.6	111.6	84.3	68.5	58.7	54.7	52.8	50.8	50.8
37.5°	2012.1	937.6	142.9	99.8	74.4	60.6	50.8	49.0	47.0	47.0	47.0
40°	2149.0	898.3	133.0	90.0	66.6	52.8	45.0	43.1	41.1	41.1	41.1
42.5°	2293.9	853.4	123.2	80.3	58.7	45.0	39.2	39.2	37.2	37.2	35.3
45°	2456.3	808.4	113.5	70.4	50.8	39.2	33.2	31.4	31.4	29.4	29.4
47.5°	2648.3	767.2	103.8	62.6	45.0	33.2	29.4	27.4	25.4	23.4	23.4
50°	2918.2	763.3	91.9	54.7	41.1	27.4	23.4	21.5	19.6	17.5	17.5
52.5°	3186.5	728.0	78.3	45.0	33.2	23.4	17.5	15.7	13.7	13.7	11.8
55°	3247.2	669.3	68.5	39.2	25.4	17.5	13.7	9.8	9.8	7.8	7.8
57.5°	3380.2	642.0	58.7	31.4	19.6	13.7	7.8	5.8	5.8	5.8	5.8
60°	3642.4	634.2	50.8	27.4	13.7	9.8	5.8	4.0	4.0	1.9	1.9
62.5°	4004.6	626.3	43.1	23.4	9.8	5.8	4.0	1.9	0.0	0.0	0.0
65°	4204.2	573.5	35.3	17.5	7.8	5.8	1.9	0.0	0.0	0.0	0.0
67.5°	4151.3	473.6	31.4	11.8	5.8	4.0	1.9	0.0	0.0	0.0	0.0
69°	3930.2	399.2	25.4	9.8	5.8	4.0	1.9	0.0	0.0	0.0	0.0
70°	3663.9	344.5	23.4	7.8	4.0	1.9	1.9	0.0	0.0	0.0	0.0
72.5°	2601.2	180.1	15.7	5.8	4.0	1.9	0.0	0.0	0.0	0.0	0.0
75°	1215.4	80.3	9.8	4.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	268.1	37.2	5.8	4.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.8	13.7	4.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	5.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	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)