

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: P800006

Luminaire Tested: **ARCH2-70-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6689 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.6
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: 24 FT

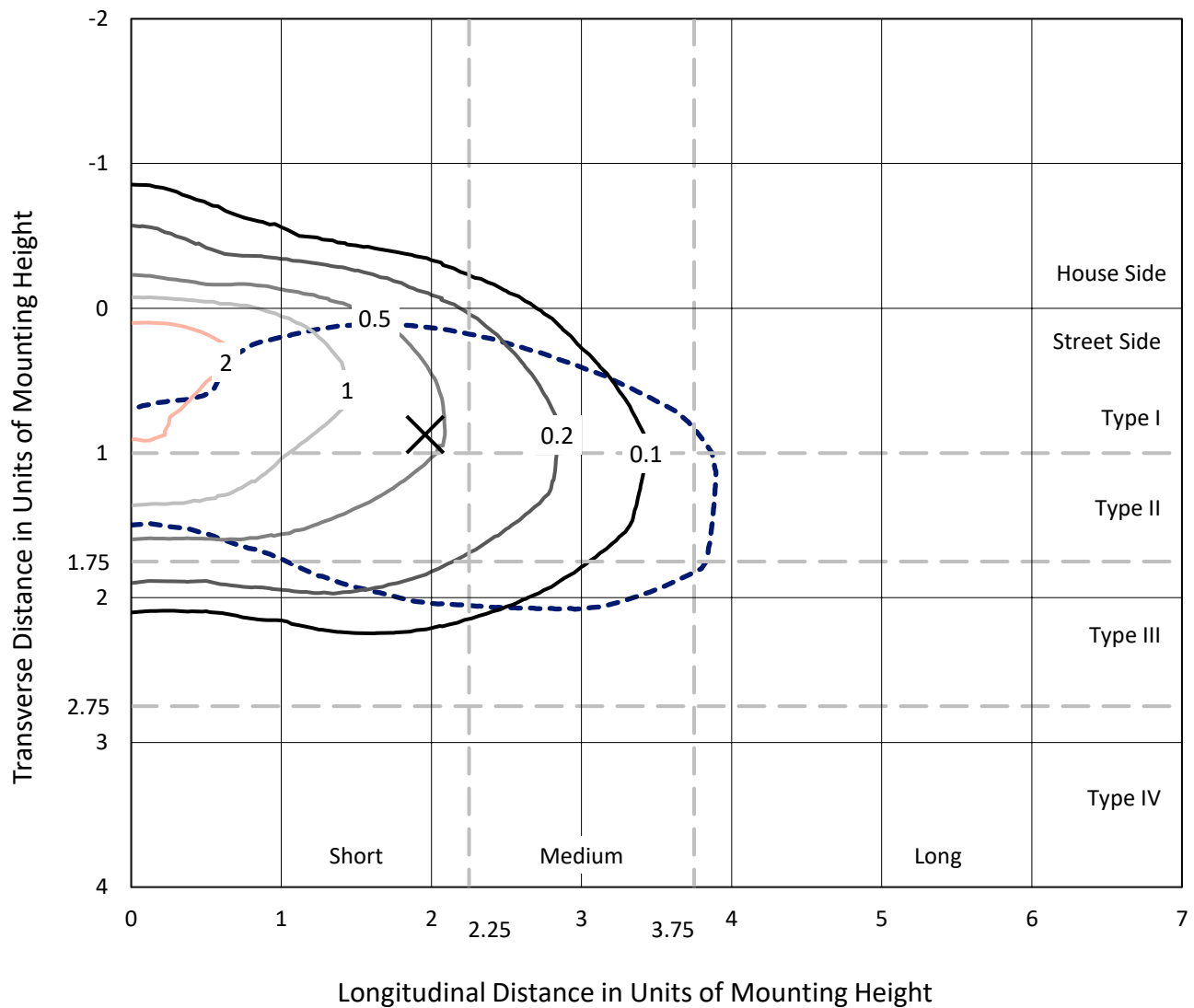


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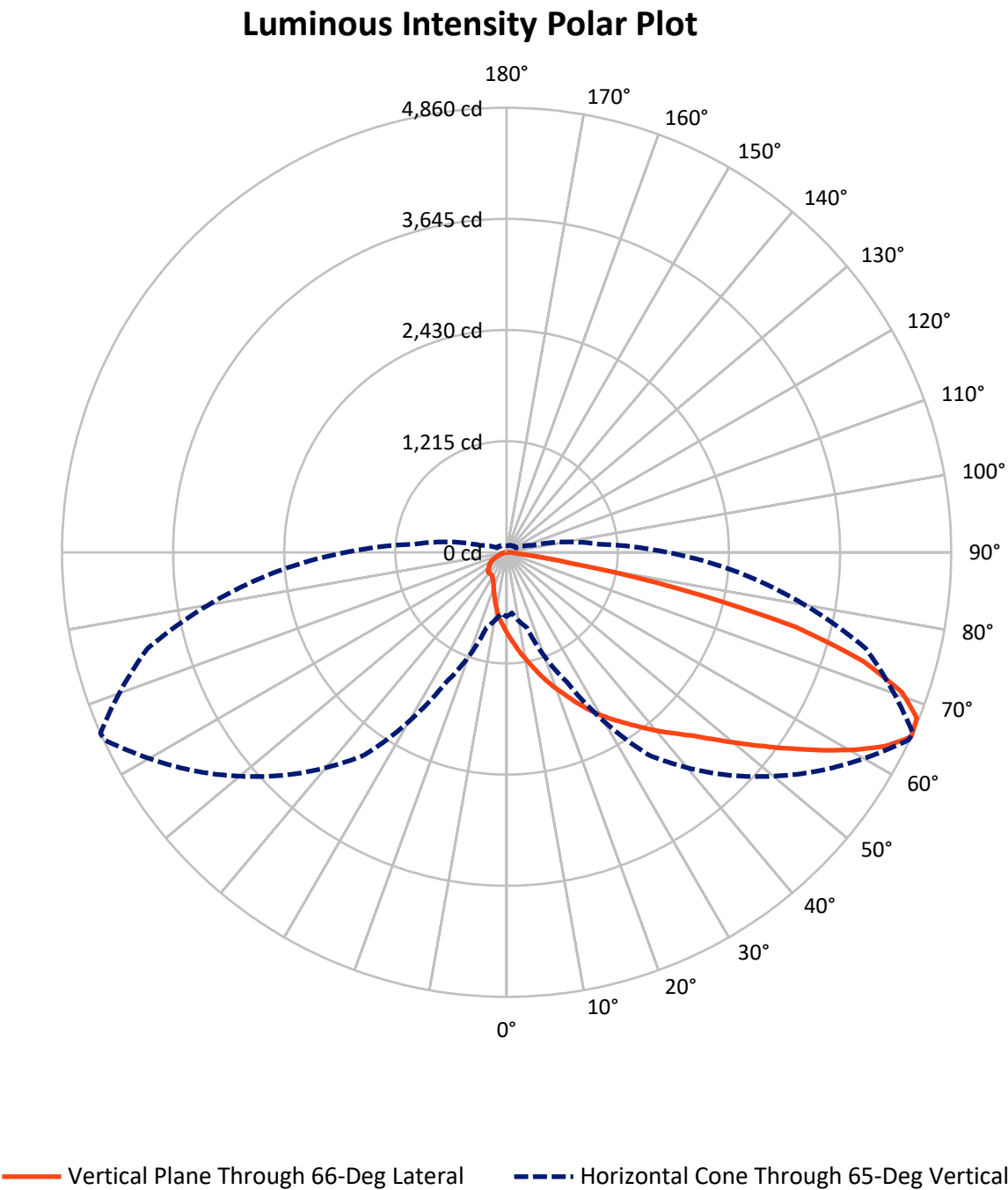
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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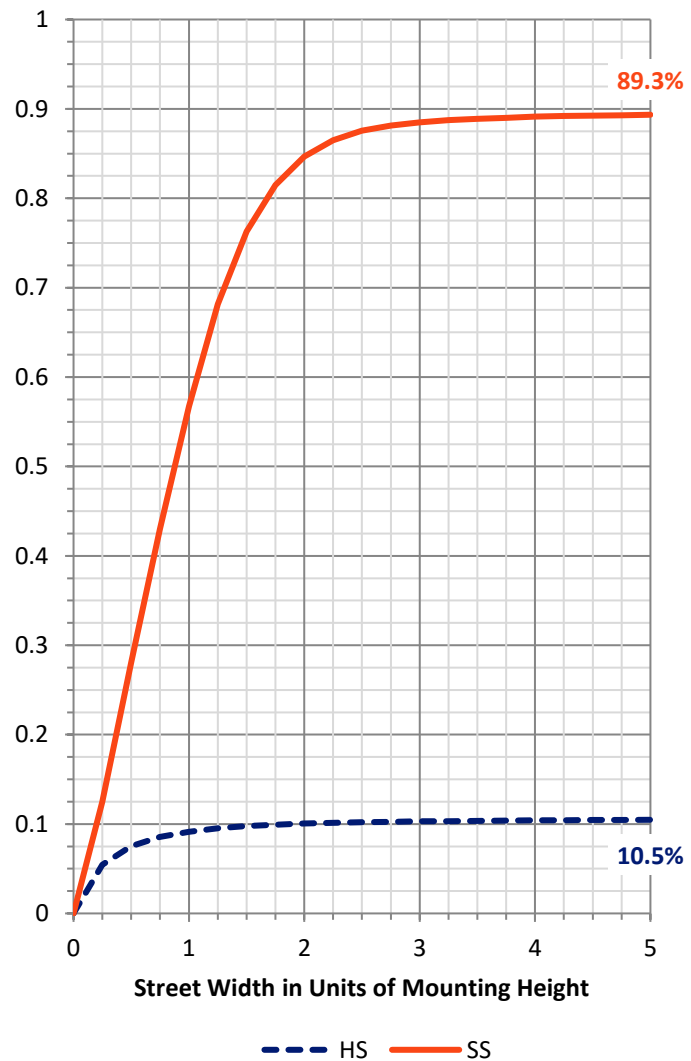
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	707.5	0.0	707.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5981.5	0.0	5981.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	6689.0	0.0	6689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.3
10°-20°	284.8	4.3
20°-30°	515.3	7.7
30°-40°	805.7	12.0
40°-50°	1222.3	18.3
50°-60°	1552.9	23.2
60°-70°	1451.1	21.7
70°-80°	721.2	10.8
80°-90°	48.4	0.7
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°	6689.0	100.0
0°-180°	6689.0	100.0

Coefficient of Utilization



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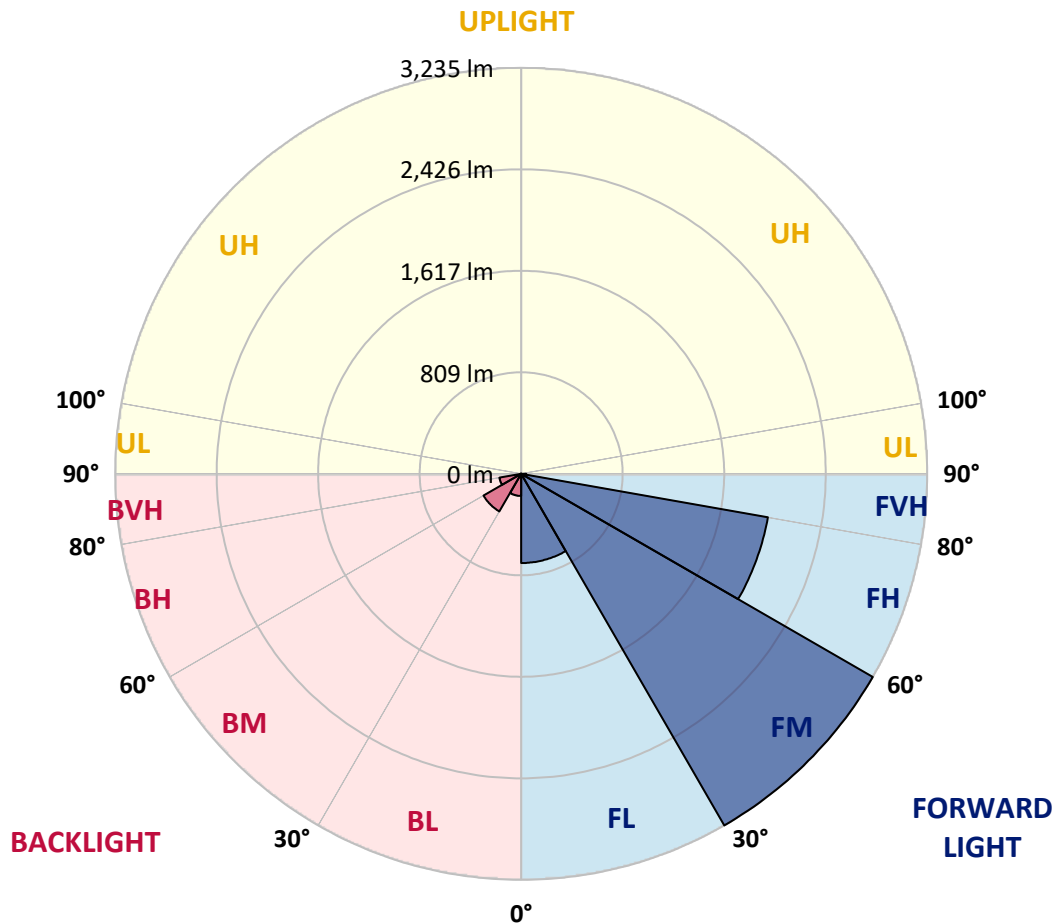
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.7	10.6			
FM	(30°-60°)	3234.9	48.4			
FH	(60°-80°)	1996.0	29.8			G2/5000
FVH	(80°-90°)	39.9	0.6			G1/100
BL	(0°-30°)	176.7	2.6	B1/500		
BM	(30°-60°)	346.0	5.2	B1/1000		
BH	(60°-80°)	176.2	2.6	B1/500		G1/500
BVH	(80°-90°)	8.6	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	1034.0	1042.4	1046.6	1048.0	1015.7	1001.7	987.7	955.4	948.4	930.1	906.3
5°	1216.3	1227.6	1224.8	1219.2	1179.9	1135.0	1098.5	1038.2	1028.4	984.9	931.5
7.5°	1395.9	1405.7	1402.9	1381.9	1338.4	1275.3	1214.9	1126.6	1112.5	1042.4	956.8
10°	1546.0	1554.5	1553.0	1532.0	1480.1	1402.9	1330.0	1212.1	1195.3	1095.7	977.8
12.5°	1669.5	1680.7	1679.3	1665.3	1619.0	1534.8	1452.0	1310.3	1289.3	1160.2	1007.3
15°	1766.3	1780.3	1780.3	1774.7	1742.4	1672.3	1578.3	1418.4	1393.1	1234.6	1043.8
17.5°	1825.2	1836.4	1846.3	1856.1	1833.6	1780.3	1694.7	1526.4	1499.7	1307.5	1081.7
20°	1856.1	1867.3	1874.3	1895.4	1899.6	1872.9	1805.6	1633.0	1605.0	1390.3	1125.2
22.5°	1906.6	1916.4	1917.8	1936.1	1944.5	1951.5	1909.4	1738.2	1715.8	1481.5	1174.3
25°	1990.8	2002.0	1997.8	2006.2	2007.6	2016.0	2011.8	1858.9	1836.4	1585.3	1233.2
27.5°	2098.8	2112.8	2110.0	2101.6	2089.0	2082.0	2100.2	1980.9	1959.9	1689.1	1293.5
30°	2215.2	2232.1	2227.9	2211.0	2177.4	2147.9	2173.1	2096.0	2076.3	1795.8	1360.8
32.5°	2333.1	2352.7	2351.3	2323.3	2265.7	2215.2	2253.1	2204.0	2190.0	1910.8	1433.8
35°	2410.2	2435.5	2432.7	2415.9	2341.5	2298.0	2344.3	2314.8	2305.0	2051.1	1539.0
37.5°	2535.1	2561.8	2537.9	2495.8	2410.2	2387.8	2443.9	2439.7	2432.7	2199.8	1649.9
40°	2838.1	2877.4	2814.3	2641.7	2501.4	2481.8	2561.8	2578.6	2571.6	2347.1	1749.5
42.5°	3155.2	3214.1	3115.9	2877.4	2667.0	2595.4	2690.8	2714.7	2706.3	2473.4	1839.2
45°	3347.4	3372.7	3274.5	3089.3	2960.2	2732.9	2828.3	2867.6	2860.6	2624.9	1954.3
47.5°	3504.5	3494.7	3382.5	3257.6	3281.5	2926.5	2984.0	3061.2	3055.6	2791.8	2080.6
50°	3538.2	3515.8	3470.9	3392.3	3455.4	3122.9	3148.2	3281.5	3275.9	2977.0	2208.2
52.5°	3301.1	3271.6	3393.7	3459.6	3438.6	3266.0	3329.2	3522.8	3520.0	3177.6	2330.3
55°	2709.1	2685.2	3013.5	3354.4	3420.4	3367.0	3529.8	3773.9	3789.3	3390.9	2441.1
57.5°	2131.1	2105.8	2428.5	3090.7	3353.0	3459.6	3764.1	4061.5	4081.1	3622.4	2546.3
60°	1699.0	1661.1	1908.0	2675.4	3226.8	3531.2	3989.9	4377.2	4380.0	3834.2	2610.9
62.5°	1154.6	1112.5	1386.1	2149.3	3014.9	3542.4	4163.9	4649.3	4660.6	3992.8	2622.1
65°	701.5	666.4	851.6	1569.9	2702.1	3447.0	4166.7	4849.9	4859.8	4065.7	2554.7
67.5°	406.9	392.8	486.8	977.8	2183.0	3190.3	3991.4	4819.1	4837.3	4034.8	2401.8
70°	237.1	235.7	270.8	484.0	1540.4	2681.0	3599.9	4559.5	4586.2	3873.5	2167.5
72.5°	174.0	176.8	190.8	259.5	892.3	1930.4	3048.6	4037.6	4078.3	3557.8	1833.6
75°	137.5	138.9	151.5	176.8	468.6	1091.5	2284.0	3240.8	3273.0	2995.3	1432.4
77.5°	102.4	105.2	115.0	124.9	217.5	500.8	1285.1	1996.4	1943.1	1644.2	691.6
80°	74.4	81.4	85.6	89.8	115.0	193.6	385.8	695.9	690.2	718.3	326.9
82.5°	47.7	53.3	57.5	60.3	68.7	92.6	115.0	155.7	168.4	279.2	130.5
85°	21.0	23.8	26.7	32.3	29.5	32.3	47.7	30.9	26.7	42.1	23.8
87.5°	0.0	0.0	4.2	7.0	5.6	2.8	8.4	5.6	4.2	4.2	4.2
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°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	893.7	878.2	846.0	815.1	796.9	773.0	752.0	732.3	730.9	725.3	715.5
5°	904.9	875.4	815.1	757.6	714.1	667.8	628.5	597.7	586.4	578.0	566.8
7.5°	916.1	869.8	780.0	695.9	627.1	562.6	516.3	474.2	461.6	450.3	443.3
10°	920.3	860.0	739.3	627.1	537.3	468.6	419.5	388.6	377.4	371.8	367.6
12.5°	933.0	854.4	701.5	562.6	458.8	395.6	360.6	342.3	338.1	333.9	329.7
15°	949.8	854.4	663.6	499.4	397.0	346.5	325.5	312.9	310.0	308.6	305.8
17.5°	968.0	854.4	627.1	446.1	352.1	314.3	298.8	291.8	290.4	289.0	287.6
20°	993.3	855.8	587.8	399.8	319.9	290.4	277.8	269.4	268.0	266.6	266.6
22.5°	1018.5	858.6	550.0	364.8	298.8	272.2	256.7	248.3	245.5	245.5	245.5
25°	1050.8	867.0	514.9	335.3	280.6	255.3	235.7	228.7	227.3	227.3	225.9
27.5°	1088.7	876.8	484.0	312.9	262.3	235.7	216.1	209.0	206.2	206.2	204.8
30°	1129.4	886.7	458.8	296.0	244.1	216.1	197.8	189.4	186.6	188.0	186.6
32.5°	1174.3	900.7	439.1	284.8	227.3	199.2	182.4	172.6	171.2	171.2	169.8
35°	1250.0	940.0	436.3	279.2	213.2	186.6	169.8	159.9	158.5	158.5	157.1
37.5°	1331.4	984.9	448.9	276.4	202.0	175.4	159.9	150.1	148.7	148.7	148.7
40°	1400.1	1018.5	463.0	276.4	195.0	165.5	151.5	143.1	143.1	143.1	143.1
42.5°	1446.4	1021.3	460.2	276.4	189.4	158.5	145.9	137.5	137.5	138.9	137.5
45°	1515.2	1035.4	448.9	272.2	185.2	152.9	140.3	133.3	131.9	133.3	133.3
47.5°	1596.5	1060.6	437.7	255.3	183.8	147.3	136.1	127.7	126.3	127.7	126.3
50°	1673.7	1083.1	432.1	232.9	181.0	141.7	130.5	122.1	120.7	122.1	120.7
52.5°	1738.2	1092.9	422.3	217.5	174.0	136.1	124.9	116.4	113.6	115.0	115.0
55°	1790.1	1090.1	408.3	204.8	161.3	130.5	117.8	110.8	106.6	106.6	105.2
57.5°	1837.8	1091.5	395.6	192.2	147.3	122.1	112.2	103.8	98.2	96.8	95.4
60°	1856.1	1084.5	373.2	175.4	133.3	115.0	105.2	95.4	89.8	88.4	87.0
62.5°	1830.8	1059.2	343.7	145.9	120.7	106.6	98.2	88.4	82.8	81.4	80.0
65°	1759.3	1011.5	298.8	115.0	109.4	96.8	89.8	82.8	75.8	73.0	71.5
67.5°	1637.2	942.8	242.7	92.6	96.8	88.4	84.2	75.8	67.3	64.5	63.1
70°	1463.3	851.6	182.4	78.6	85.6	78.6	75.8	67.3	60.3	57.5	56.1
72.5°	1219.2	704.3	127.7	67.3	74.4	68.7	65.9	60.3	53.3	49.1	49.1
75°	921.7	505.1	84.2	57.5	61.7	58.9	54.7	50.5	46.3	43.5	42.1
77.5°	397.0	196.4	51.9	43.5	50.5	49.1	43.5	40.7	39.3	36.5	36.5
80°	171.2	80.0	32.3	32.3	36.5	35.1	33.7	30.9	30.9	29.5	28.1
82.5°	63.1	32.3	19.6	23.8	26.7	23.8	23.8	23.8	23.8	22.4	22.4
85°	15.4	9.8	9.8	14.0	15.4	14.0	15.4	14.0	14.0	14.0	12.6
87.5°	4.2	4.2	5.6	5.6	5.6	5.6	5.6	4.2	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)