

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: P400548

Luminaire Tested: **ARCH-L-PA3-90-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400548
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-L-PA3-90-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 400mA LIGHT ENGINES 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: 8900 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

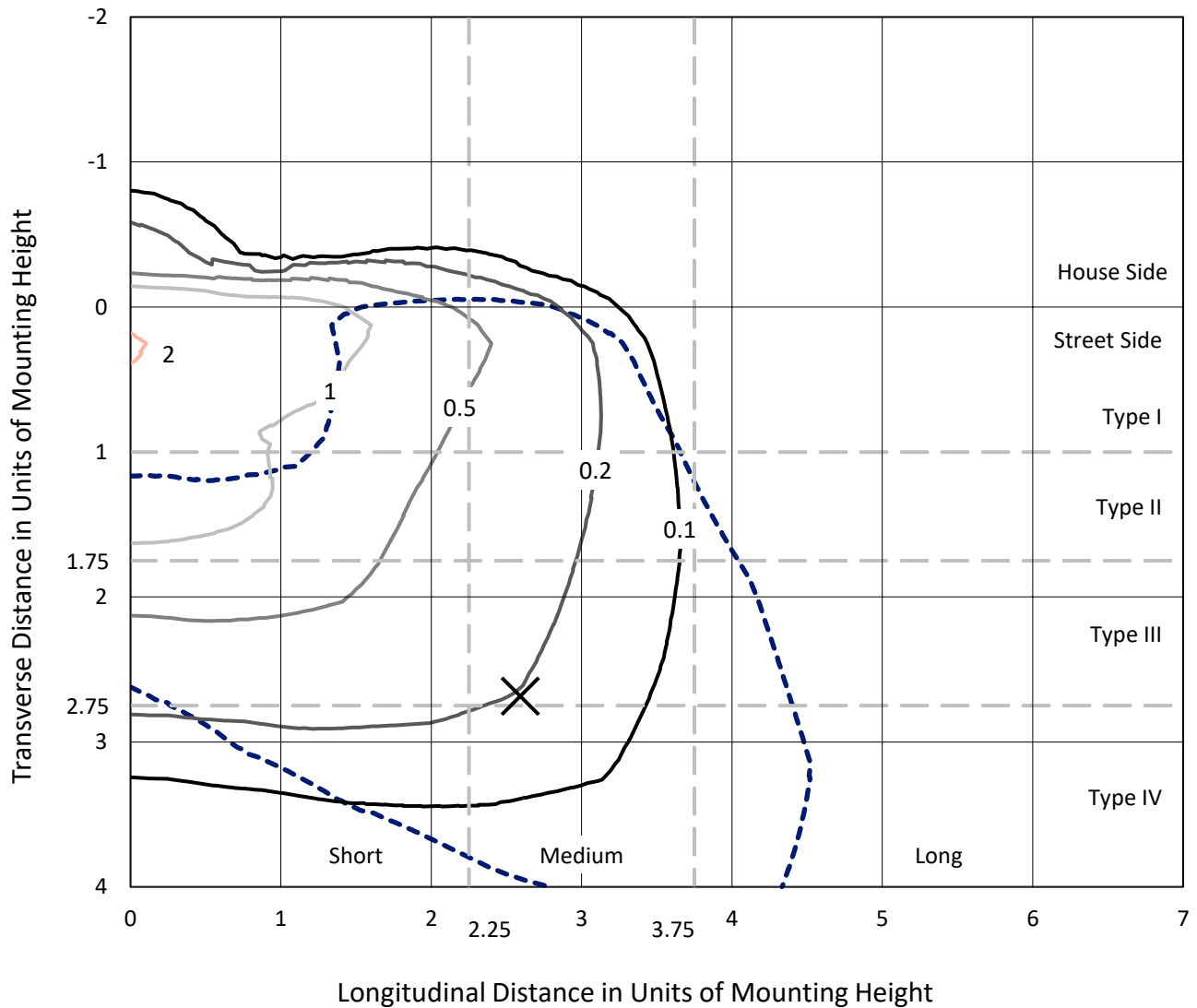
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

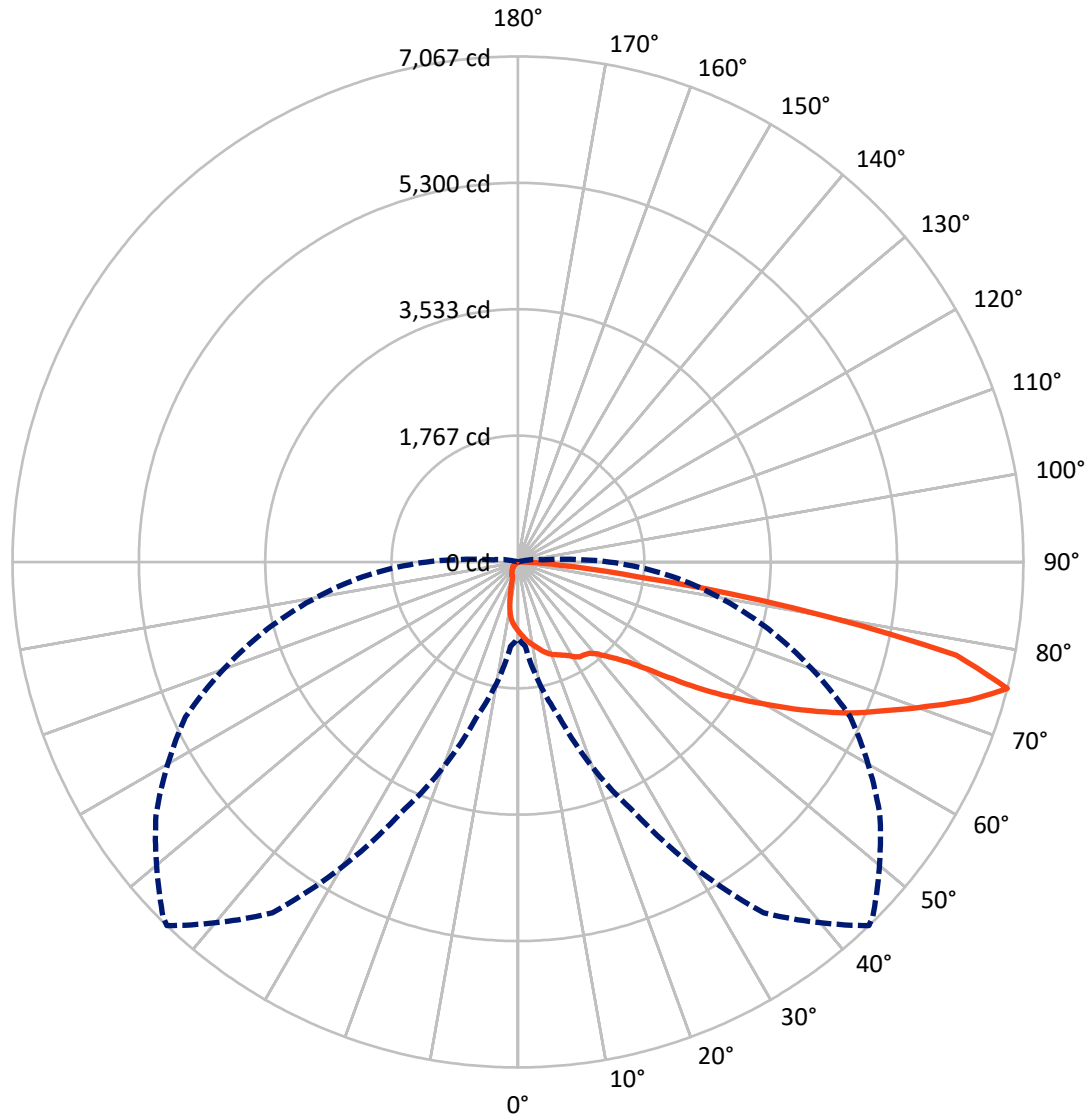
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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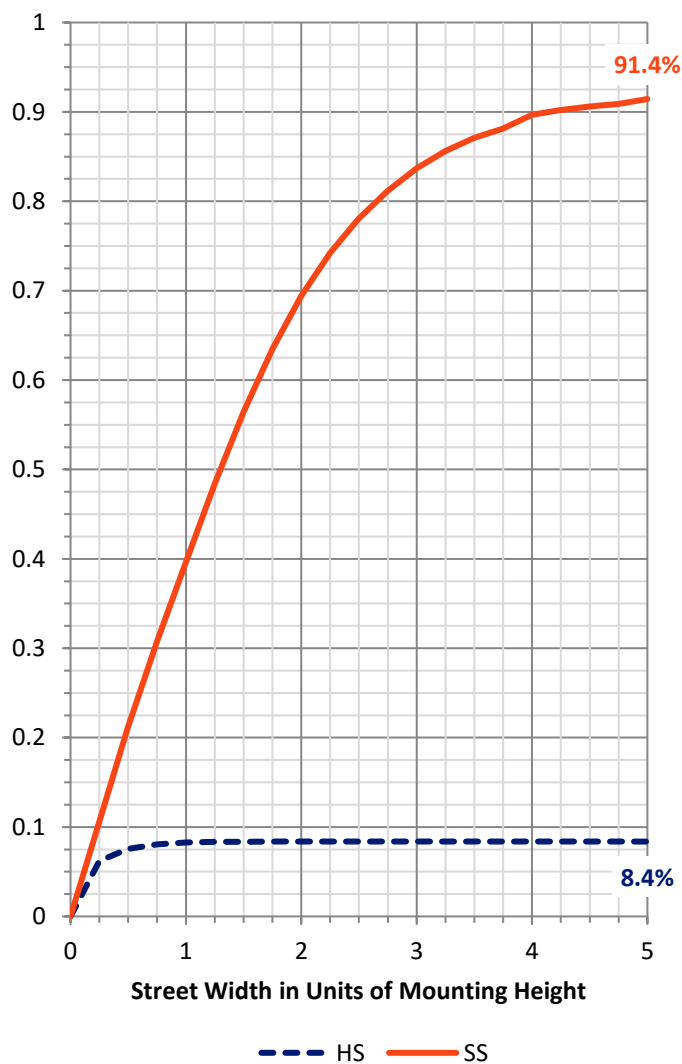
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.6	0.0	750.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8149.4	0.0	8149.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	8900.0	0.0	8900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.0
10°-20°	256.0	2.9
20°-30°	422.5	4.7
30°-40°	613.2	6.9
40°-50°	996.7	11.2
50°-60°	1757.1	19.7
60°-70°	2525.4	28.4
70°-80°	2022.3	22.7
80°-90°	215.5	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°	8900.0	100.0
0°-180°	8900.0	100.0

Coefficient of Utilization

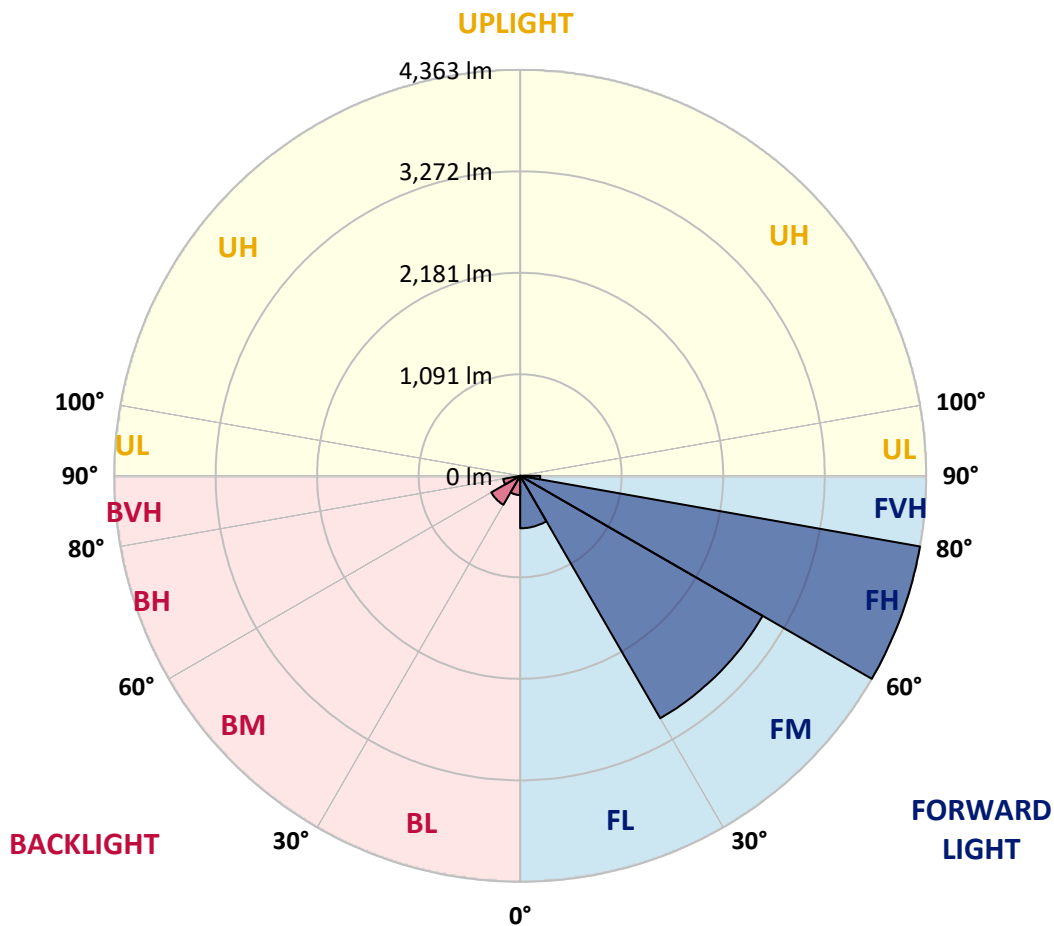


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.6	6.3			
FM (30°-60°)	3008.3	33.8			
FH (60°-80°)	4362.6	49.0			G2/5000
FVH (80°-90°)	214.9	2.4			G2/225
BL (0°-30°)	206.2	2.3	B1/500		
BM (30°-60°)	358.8	4.0	B1/1000		
BH (60°-80°)	185.0	2.1	B1/500		G1/500
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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7
2.5°	1055.8	1054.1	1049.2	1041.0	1032.8	1024.6	1022.9	1009.8	995.0	983.5	973.7
5°	1149.3	1147.7	1139.5	1121.4	1103.4	1082.0	1080.4	1049.2	1021.3	990.1	963.8
7.5°	1246.2	1242.9	1228.2	1200.2	1169.0	1136.2	1132.9	1086.9	1045.9	1004.9	967.1
10°	1321.7	1318.5	1297.1	1264.3	1221.6	1180.5	1175.6	1128.0	1086.9	1034.4	983.5
12.5°	1395.6	1389.1	1361.1	1325.0	1272.5	1233.1	1228.2	1178.9	1129.6	1075.5	1013.1
15°	1464.6	1456.4	1430.1	1384.1	1328.3	1290.5	1287.3	1234.7	1183.8	1121.4	1052.5
17.5°	1512.2	1508.9	1477.7	1426.8	1372.6	1341.4	1338.2	1284.0	1233.1	1167.4	1093.5
20°	1536.8	1536.8	1507.3	1451.5	1402.2	1380.9	1375.9	1325.0	1275.8	1213.4	1136.2
22.5°	1541.8	1546.7	1523.7	1462.9	1426.8	1408.8	1405.5	1361.1	1313.5	1256.1	1183.8
25°	1551.6	1551.6	1540.1	1474.4	1448.2	1443.2	1441.6	1402.2	1359.5	1302.0	1231.4
27.5°	1563.1	1563.1	1554.9	1490.9	1481.0	1479.4	1477.7	1459.7	1425.2	1357.9	1287.3
30°	1592.7	1594.3	1587.7	1523.7	1517.1	1535.2	1538.5	1528.6	1485.9	1402.2	1344.7
32.5°	1666.5	1651.8	1633.7	1546.7	1558.2	1581.2	1582.8	1563.1	1517.1	1449.8	1413.7
35°	1852.1	1765.1	1683.0	1566.4	1571.3	1594.3	1597.6	1595.9	1568.0	1510.6	1492.5
37.5°	2024.5	1901.3	1784.8	1612.4	1595.9	1620.6	1627.1	1655.1	1633.7	1594.3	1599.2
40°	2124.6	2077.0	1994.9	1738.8	1645.2	1683.0	1689.5	1732.2	1724.0	1707.6	1738.8
42.5°	2433.3	2436.6	2347.9	1927.6	1735.5	1796.3	1804.5	1838.9	1850.4	1858.7	1934.2
45°	2791.3	2802.8	2781.4	2267.5	1906.3	1926.0	1937.5	1983.4	2026.1	2078.7	2216.6
47.5°	3221.4	3211.6	3132.8	2682.9	2203.5	2093.4	2101.7	2190.3	2264.2	2379.1	2576.2
50°	3602.4	3627.0	3477.6	3070.4	2622.1	2357.8	2349.6	2436.6	2569.6	2730.5	2978.4
52.5°	3986.6	3950.5	3748.5	3454.6	3118.0	2717.4	2692.7	2740.4	2927.5	3118.0	3372.5
55°	4088.4	4091.7	4022.7	3874.9	3531.8	3154.1	3113.1	3109.8	3342.9	3472.7	3786.3
57.5°	4288.7	4296.9	4313.3	4342.9	4180.3	3590.9	3548.2	3502.2	3728.8	3804.3	4201.7
60°	4492.3	4502.1	4602.3	4761.6	4653.2	4062.1	4016.1	3907.8	4034.2	4136.0	4638.4
62.5°	4466.0	4535.0	4825.6	5142.5	5129.3	4579.3	4521.8	4260.8	4341.2	4429.9	5039.0
65°	4032.5	4106.4	4759.9	5247.6	5607.1	5089.9	4996.4	4625.3	4630.2	4736.9	5424.9
67.5°	3645.1	3725.5	4349.4	5203.2	5922.4	5548.0	5451.2	4991.4	4914.3	5091.6	5631.8
70°	3421.8	3502.2	4022.7	5065.3	6011.1	6055.4	5971.7	5410.1	5252.5	5415.0	5400.3
72.5°	2678.0	2804.4	3605.7	4802.6	6106.3	6598.9	6533.2	5940.5	5539.8	5076.8	4111.4
75°	1067.2	1183.8	2251.1	3865.1	5986.4	7066.8	7015.9	6178.5	5127.7	3625.4	2104.9
77.5°	321.8	344.8	625.6	1911.2	4388.8	6265.6	6249.1	5195.0	3628.6	1683.0	574.7
80°	106.7	118.2	192.1	527.1	2003.1	3914.3	3988.2	3310.1	1648.5	385.9	116.6
82.5°	44.3	49.3	96.9	211.8	709.3	1686.2	1661.6	1482.7	574.7	239.7	42.7
85°	11.5	14.8	44.3	121.5	259.4	581.2	610.8	497.5	325.1	198.7	13.1
87.5°	0.0	0.0	21.3	49.3	116.6	175.7	183.9	151.1	183.9	149.4	6.6
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°	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7	968.7
2.5°	965.4	957.2	942.5	932.6	919.5	916.2	909.6	901.4	899.8	891.6	893.2
5°	949.0	935.9	909.6	891.6	870.2	863.6	852.2	843.9	837.4	825.9	827.5
7.5°	945.7	926.0	889.9	855.4	821.0	796.3	761.8	733.9	711.0	686.3	691.2
10°	957.2	932.6	881.7	834.1	771.7	692.9	602.6	543.5	513.9	484.4	487.6
12.5°	980.2	950.7	885.0	812.7	686.3	551.7	426.9	346.4	325.1	312.0	313.6
15°	1014.7	978.6	894.8	771.7	571.4	399.0	284.1	249.6	257.8	262.7	262.7
17.5°	1050.8	1009.8	903.1	697.8	441.7	279.1	231.5	228.2	239.7	251.2	251.2
20°	1095.2	1042.6	904.7	604.2	318.5	226.6	218.4	218.4	226.6	239.7	239.7
22.5°	1137.8	1078.7	889.9	497.5	243.0	210.2	210.2	210.2	215.1	228.2	229.9
25°	1188.7	1123.1	858.7	384.2	208.5	200.3	200.3	202.0	205.2	216.7	218.4
27.5°	1242.9	1169.0	806.2	280.8	190.5	188.8	190.5	192.1	193.7	205.2	208.5
30°	1305.3	1219.9	738.9	210.2	174.0	174.0	179.0	182.3	182.3	192.1	195.4
32.5°	1377.6	1287.3	658.4	174.0	157.6	156.0	164.2	169.1	169.1	177.3	180.6
35°	1467.9	1356.2	561.5	154.3	144.5	141.2	144.5	152.7	156.0	162.5	164.2
37.5°	1587.7	1438.3	458.1	142.8	134.6	128.1	128.1	129.7	136.3	142.8	144.5
40°	1740.4	1528.6	356.3	134.6	124.8	118.2	113.3	111.7	110.0	114.9	118.2
42.5°	1932.5	1630.4	266.0	126.4	116.6	106.7	100.2	93.6	85.4	83.7	85.4
45°	2178.8	1755.2	197.0	119.9	111.7	96.9	85.4	73.9	59.1	54.2	55.8
47.5°	2469.4	1884.9	154.3	113.3	108.4	85.4	70.6	50.9	36.1	32.8	34.5
50°	2778.1	2009.7	131.4	105.1	101.8	73.9	50.9	31.2	21.3	21.3	23.0
52.5°	3040.8	2080.3	119.9	98.5	91.9	60.8	32.8	18.1	13.1	13.1	14.8
55°	3295.3	2118.1	111.7	91.9	78.8	42.7	18.1	11.5	8.2	8.2	8.2
57.5°	3558.0	2134.5	101.8	83.7	62.4	26.3	9.9	6.6	4.9	4.9	4.9
60°	3791.2	2103.3	87.0	69.0	41.0	13.1	4.9	4.9	3.3	1.6	1.6
62.5°	3986.6	2044.2	60.8	49.3	24.6	6.6	3.3	1.6	0.0	0.0	0.0
65°	4106.4	1949.0	39.4	32.8	14.8	4.9	1.6	0.0	0.0	0.0	0.0
67.5°	4072.0	1770.0	24.6	21.3	6.6	3.3	1.6	0.0	0.0	0.0	0.0
70°	3674.6	1451.5	18.1	13.1	4.9	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2648.4	981.9	13.1	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1274.1	349.7	8.2	6.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	312.0	77.2	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.0	14.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.0	6.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.6	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)