

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: P399392

Luminaire Tested: **ARCH-L-PA3-130-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11599 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

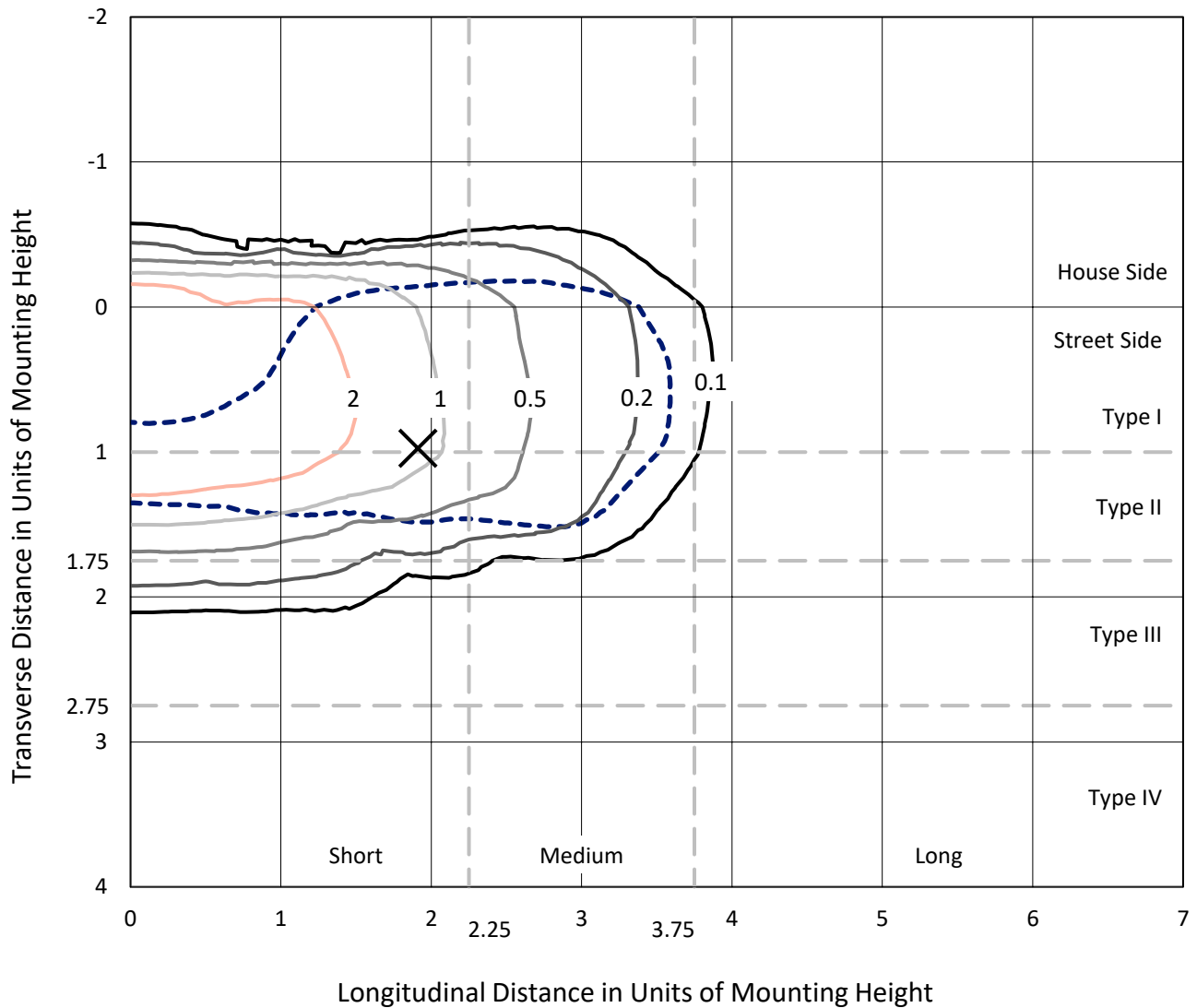
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

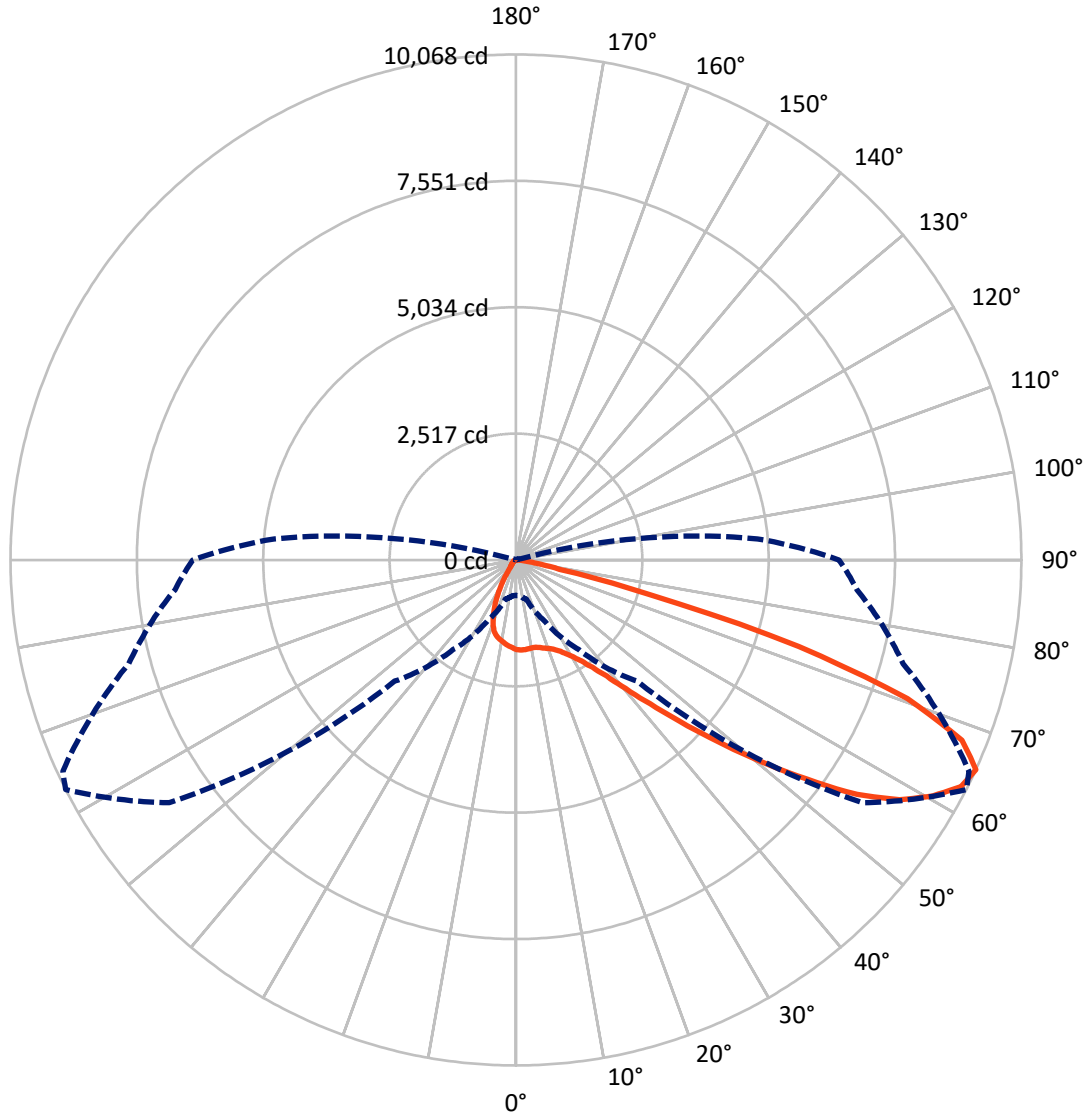
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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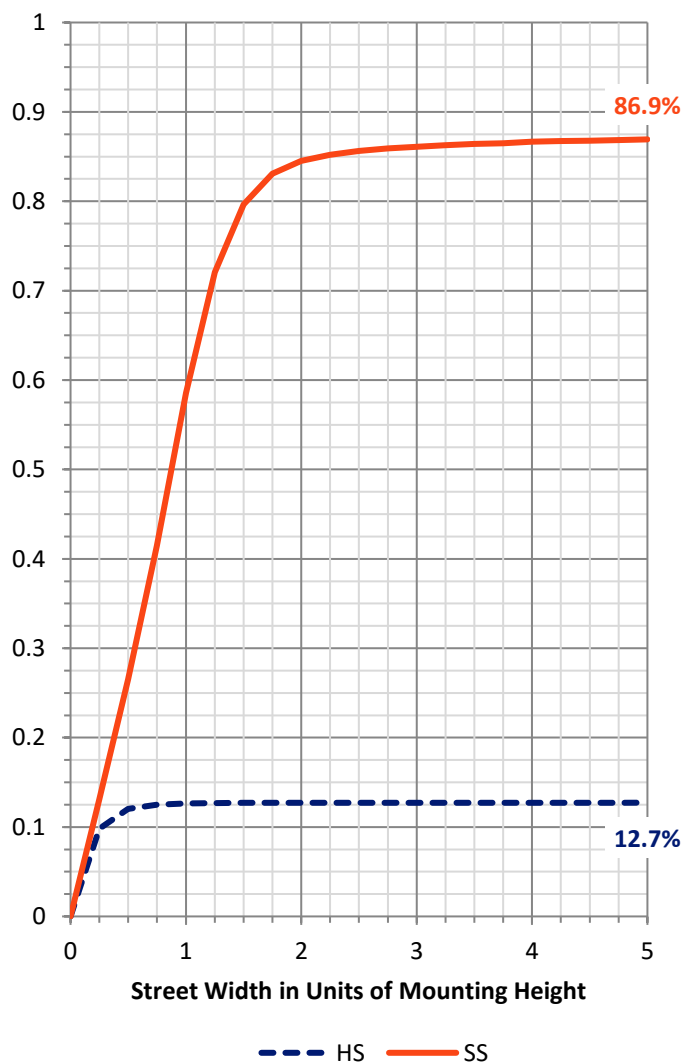
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.8	0.0	1492.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	10106.2	0.0	10106.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	11599.0	0.0	11599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.4
10°-20°	402.2	3.5
20°-30°	596.2	5.1
30°-40°	1106.9	9.5
40°-50°	2344.9	20.2
50°-60°	3242.4	28.0
60°-70°	2595.7	22.4
70°-80°	1078.4	9.3
80°-90°	69.2	0.6
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°	11599.0	100.0
0°-180°	11599.0	100.0

Coefficient of Utilization

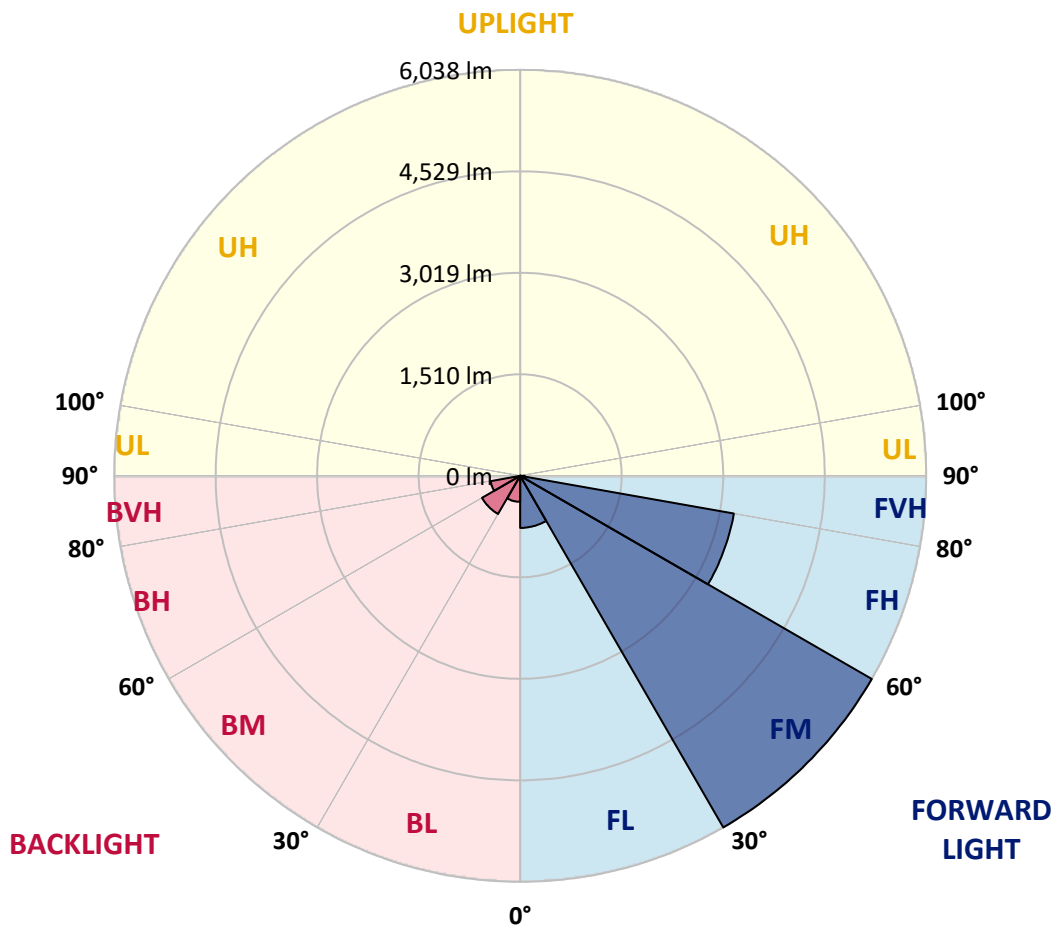


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.5	6.7			
FM (30°-60°)	6038.5	52.1			
FH (60°-80°)	3227.1	27.8			G2/5000
FVH (80°-90°)	66.1	0.6			G1/100
BL (0°-30°)	386.9	3.3	B1/500		
BM (30°-60°)	655.8	5.7	B1/1000		
BH (60°-80°)	447.0	3.9	B1/500		G1/500
BVH (80°-90°)	3.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8
2.5°	1817.5	1813.1	1808.7	1806.5	1806.5	1804.4	1795.6	1793.4	1789.0	1784.6	1780.3
5°	1800.0	1793.4	1791.2	1793.4	1795.6	1800.0	1795.6	1795.6	1791.2	1786.8	1778.1
7.5°	1756.2	1751.8	1754.0	1760.6	1762.7	1778.1	1780.3	1786.8	1786.8	1782.5	1775.9
10°	1703.6	1701.4	1701.4	1712.4	1723.3	1745.2	1760.6	1778.1	1780.3	1780.3	1769.3
12.5°	1664.2	1662.0	1668.6	1681.7	1703.6	1732.1	1758.4	1784.6	1789.0	1791.2	1773.7
15°	1640.1	1640.1	1648.9	1675.2	1705.8	1745.2	1775.9	1810.9	1815.3	1813.1	1789.0
17.5°	1618.2	1620.4	1637.9	1681.7	1716.8	1769.3	1806.5	1846.0	1848.1	1846.0	1806.5
20°	1609.5	1613.8	1640.1	1697.1	1736.5	1795.6	1843.8	1883.2	1885.4	1876.6	1824.1
22.5°	1633.6	1635.7	1668.6	1729.9	1767.1	1832.8	1894.1	1931.4	1933.5	1920.4	1850.3
25°	1716.8	1716.8	1745.2	1797.8	1830.6	1896.3	1962.0	2005.8	2005.8	1990.5	1909.5
27.5°	1911.6	1894.1	1887.6	1902.9	1913.8	1983.9	2054.0	2108.7	2106.5	2084.6	1986.1
30°	2288.3	2244.5	2174.4	2095.6	2056.2	2104.3	2170.0	2240.1	2237.9	2202.9	2080.3
32.5°	2921.1	2857.6	2691.2	2483.2	2314.6	2259.8	2321.1	2397.8	2400.0	2358.4	2231.4
35°	3808.0	3707.2	3409.4	3120.4	2735.0	2527.0	2544.5	2627.7	2654.0	2632.1	2485.4
37.5°	4662.0	4570.0	4285.3	3884.6	3361.3	2936.4	2862.0	2934.3	2964.9	2964.9	2809.4
40°	5522.5	5415.2	5163.4	4760.5	4208.7	3575.9	3308.7	3367.8	3400.7	3407.2	3203.6
42.5°	6212.3	6142.2	5949.5	5636.4	5119.6	4697.0	3952.5	3919.6	3950.3	3926.2	3661.3
45°	6689.7	6634.9	6501.4	6383.1	6131.3	5918.9	4813.1	4591.9	4611.6	4528.4	4175.8
47.5°	6788.2	6726.9	6698.4	6862.7	7042.2	7094.8	5870.7	5391.2	5371.4	5187.5	4710.1
50°	6359.0	6365.6	6470.7	6939.3	7688.2	8161.2	7097.0	6293.3	6221.1	5811.6	5207.2
52.5°	5432.8	5537.9	5802.8	6562.7	7885.3	8936.4	8323.2	7250.2	7138.6	6418.1	5579.5
55°	4250.3	4386.1	4821.8	5695.5	7473.6	9282.3	9356.8	8244.4	7990.4	6873.6	5868.5
57.5°	3159.8	3201.4	3709.4	4506.5	6499.2	8942.9	9886.7	9010.8	8684.5	7237.1	6155.4
60°	1968.6	1994.9	2531.3	3431.3	4922.5	7688.2	9886.7	9538.5	9227.6	7563.4	6418.1
62.5°	1224.1	1232.8	1434.3	2351.8	3345.9	5702.1	9477.2	9948.0	9698.4	7797.7	6643.7
65°	705.1	713.9	808.0	1329.2	2176.6	3413.8	8430.5	10068.4	9956.8	7983.8	6818.9
67.5°	514.6	519.0	556.2	746.7	1423.3	1754.0	6332.7	9584.5	9724.7	8075.8	6814.5
70°	446.7	453.3	501.5	582.5	1027.0	1077.4	3223.3	8277.2	8669.2	7944.4	6610.8
72.5°	343.8	352.5	424.8	547.4	753.3	775.2	1167.1	5890.4	6483.8	7123.2	6052.5
75°	236.5	245.3	317.5	451.1	621.9	580.3	641.6	2710.9	3420.4	4778.0	4607.2
77.5°	151.1	153.3	199.3	328.5	536.5	411.7	440.1	884.7	1241.6	2161.3	2174.4
80°	100.7	102.9	122.6	212.4	367.9	381.0	271.5	409.5	448.9	630.6	437.9
82.5°	61.3	61.3	83.2	133.6	223.4	315.3	177.4	214.6	229.9	243.1	113.9
85°	24.1	24.1	50.4	87.6	140.1	146.7	111.7	124.8	131.4	142.3	52.6
87.5°	6.6	6.6	28.5	48.2	61.3	67.9	67.9	61.3	65.7	81.0	26.3
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°	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8	1786.8
2.5°	1778.1	1771.5	1762.7	1754.0	1745.2	1738.7	1732.1	1732.1	1727.7	1721.1	1716.8
5°	1773.7	1762.7	1743.0	1727.7	1703.6	1686.1	1673.0	1662.0	1655.4	1640.1	1637.9
7.5°	1767.1	1754.0	1725.5	1694.9	1655.4	1624.8	1594.1	1572.2	1550.3	1532.8	1528.4
10°	1756.2	1740.8	1699.2	1655.4	1600.7	1543.8	1471.5	1388.3	1311.7	1267.9	1254.7
12.5°	1756.2	1736.5	1681.7	1622.6	1543.8	1403.6	1219.7	1035.7	893.4	829.9	812.4
15°	1767.1	1740.8	1668.6	1587.6	1440.9	1156.2	858.4	615.3	459.8	411.7	400.7
17.5°	1778.1	1740.8	1648.9	1539.4	1252.5	838.7	488.3	324.1	273.7	262.8	262.8
20°	1782.5	1736.5	1622.6	1449.6	1000.7	521.2	291.2	243.1	223.4	216.8	216.8
22.5°	1800.0	1738.7	1602.9	1320.4	727.0	306.6	229.9	203.6	183.9	177.4	177.4
25°	1843.8	1764.9	1607.3	1156.2	466.4	232.1	194.9	168.6	148.9	140.1	140.1
27.5°	1913.8	1824.1	1631.4	965.7	293.4	199.3	164.2	135.8	120.4	111.7	111.7
30°	1992.7	1889.8	1642.3	746.7	219.0	168.6	133.6	107.3	96.3	89.8	87.6
32.5°	2130.6	2003.6	1633.6	512.4	179.6	142.3	107.3	85.4	76.6	74.5	74.5
35°	2351.8	2202.9	1616.0	321.9	148.9	113.9	85.4	70.1	63.5	61.3	59.1
37.5°	2651.8	2494.1	1563.5	212.4	122.6	89.8	70.1	59.1	52.6	50.4	50.4
40°	3017.5	2827.0	1462.7	162.0	105.1	72.3	59.1	50.4	46.0	43.8	43.8
42.5°	3435.7	3197.0	1302.9	140.1	87.6	61.3	50.4	41.6	39.4	37.2	37.2
45°	3893.4	3584.6	1081.7	124.8	74.5	50.4	41.6	37.2	32.8	32.8	30.7
47.5°	4379.5	3974.4	832.1	109.5	63.5	43.8	37.2	30.7	28.5	26.3	26.3
50°	4848.1	4322.6	584.7	94.2	52.6	37.2	30.7	26.3	24.1	21.9	21.9
52.5°	5178.7	4532.8	413.9	81.0	43.8	32.8	24.1	19.7	17.5	17.5	17.5
55°	5443.7	4664.2	289.0	67.9	37.2	28.5	19.7	15.3	15.3	13.1	13.1
57.5°	5693.3	4749.6	212.4	56.9	30.7	21.9	15.3	10.9	10.9	8.8	8.8
60°	5951.7	4795.5	162.0	46.0	26.3	17.5	10.9	8.8	6.6	6.6	6.6
62.5°	6212.3	4824.0	124.8	37.2	21.9	13.1	8.8	6.6	4.4	2.2	2.2
65°	6440.0	4832.8	96.3	28.5	17.5	8.8	6.6	2.2	0.0	0.0	0.0
67.5°	6507.9	4732.0	74.5	21.9	13.1	6.6	4.4	0.0	0.0	0.0	0.0
70°	6324.0	4464.9	56.9	17.5	10.9	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	5612.3	3744.5	43.8	10.9	8.8	4.4	2.2	0.0	0.0	0.0	0.0
75°	4016.0	1997.0	30.7	8.8	6.6	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1848.1	773.0	21.9	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
80°	361.3	192.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.2	32.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	10.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	4.4	2.2	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)