

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: P572818

Luminaire Tested: **ARCH-S-PA2-120-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14063 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

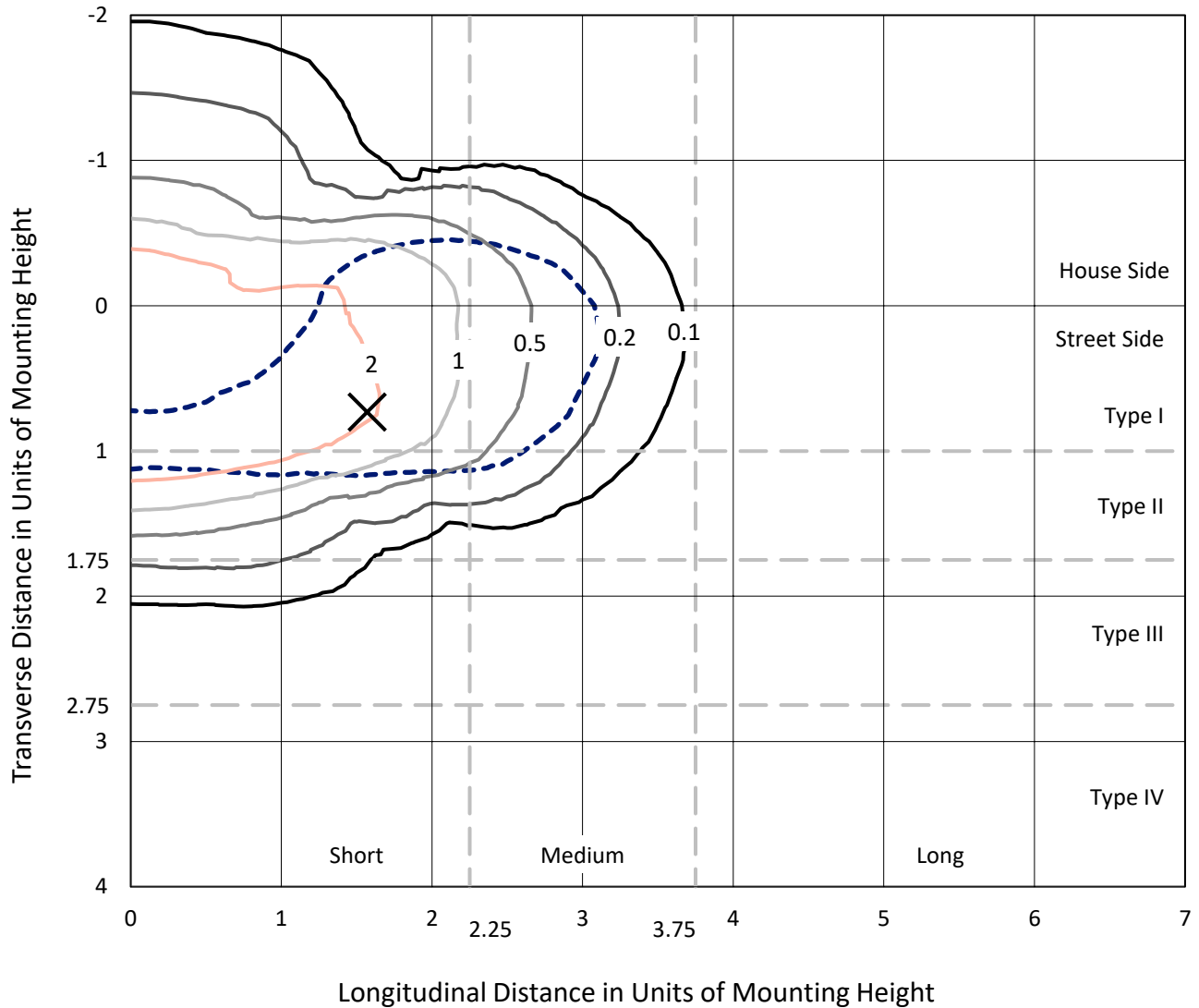
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

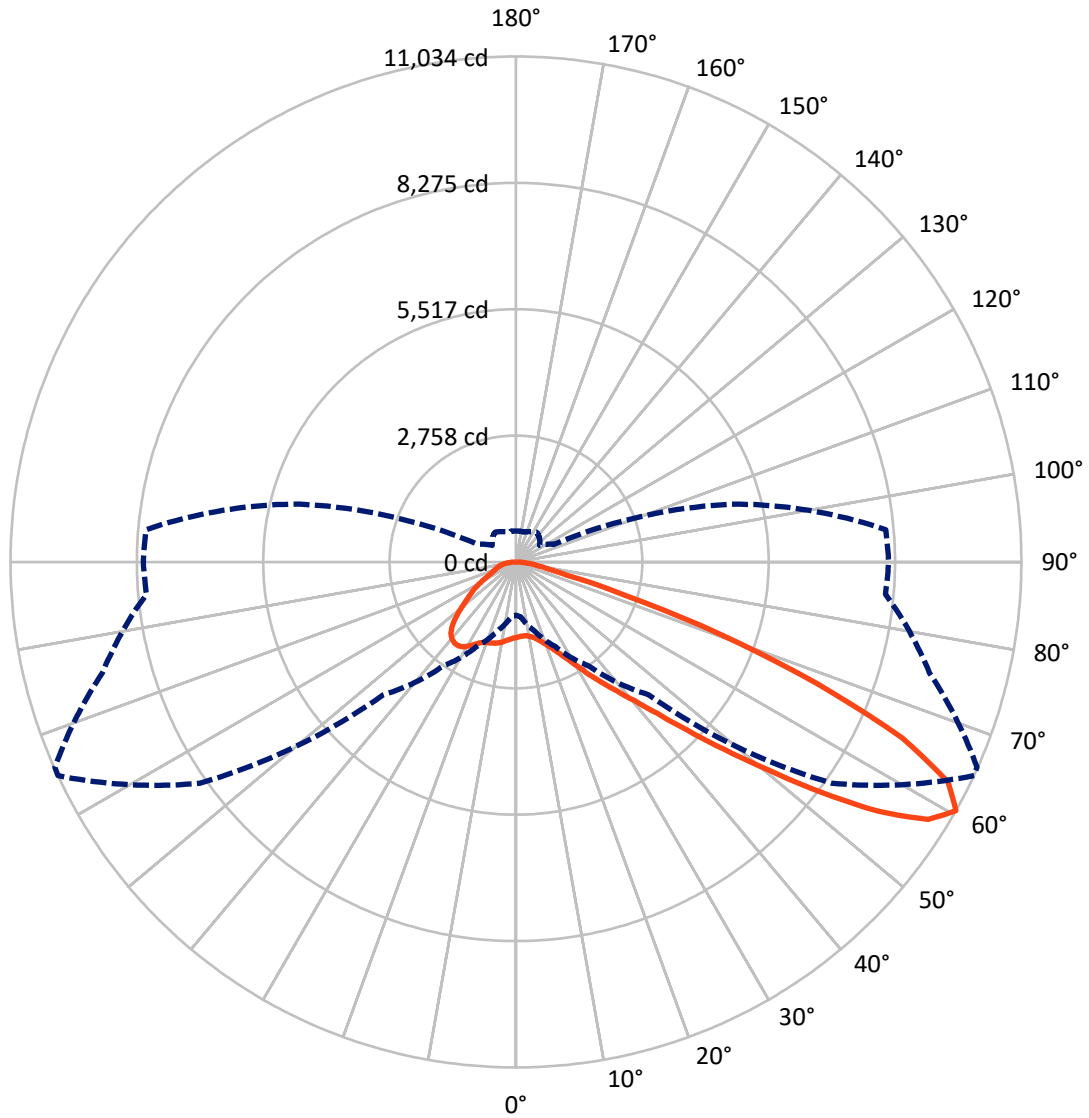
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P572818
CATALOG NUMBER: ARCH-S-PA2-120-730-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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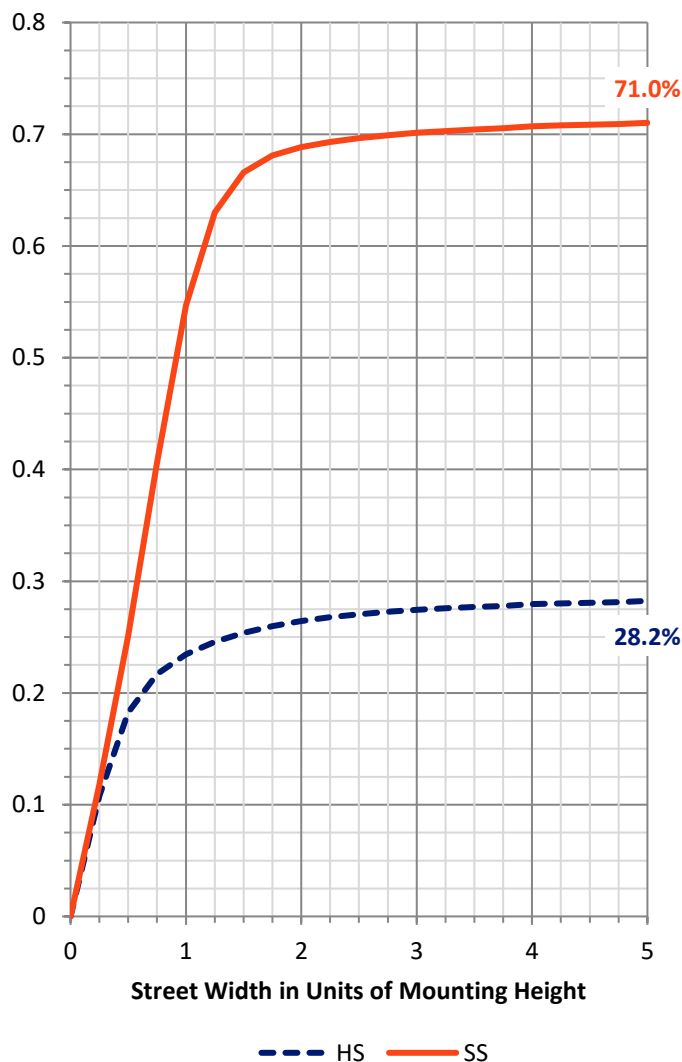
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4025.9	0.0	4025.9
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	10037.2	0.0	10037.2
	% Fixture	71.4	0.0	71.4
Total	Lumens	14063.0	0.0	14063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.1
10°-20°	513.1	3.6
20°-30°	983.5	7.0
30°-40°	1708.2	12.1
40°-50°	2897.0	20.6
50°-60°	3607.4	25.7
60°-70°	2906.9	20.7
70°-80°	1100.8	7.8
80°-90°	186.7	1.3
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°	14063.0	100.0
0°-180°	14063.0	100.0

Coefficient of Utilization



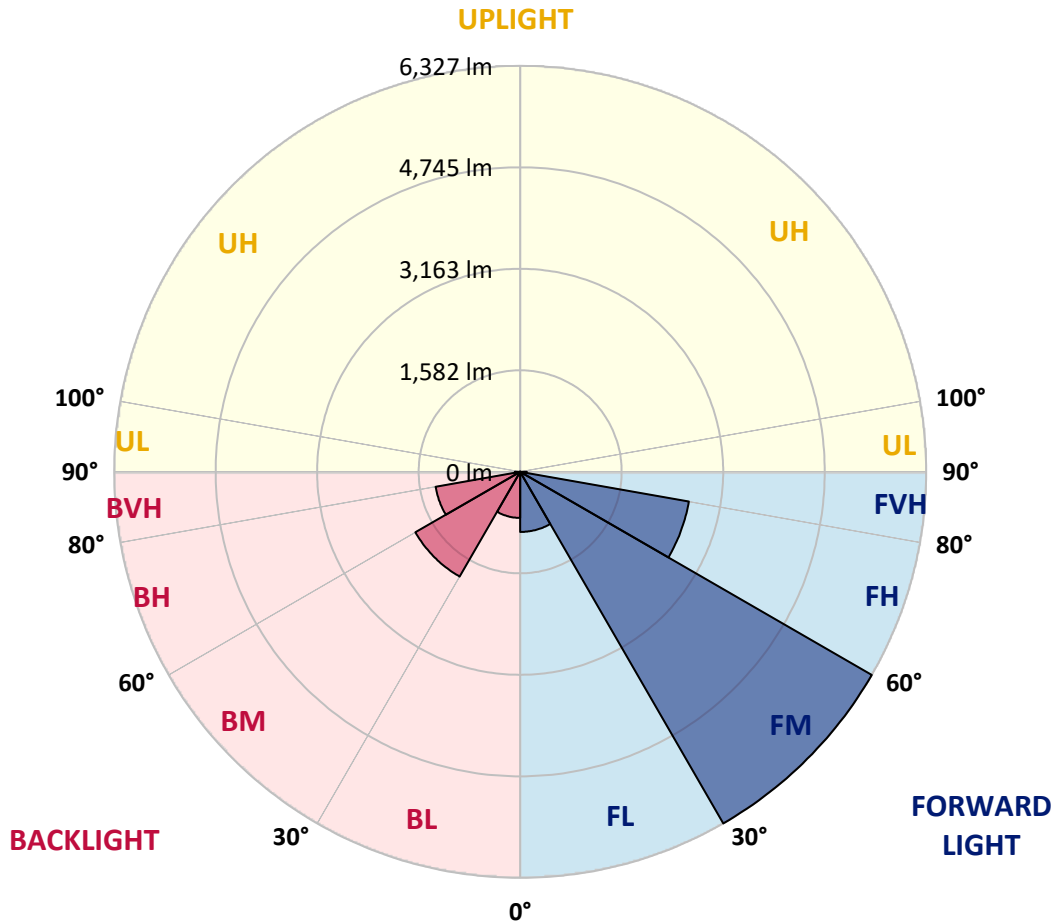
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 CATALOG NUMBER: ARCH-S-PA2-120-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.5	6.7			
FM (30°-60°)	6327.0	45.0			
FH (60°-80°)	2669.1	19.0			G2/5000
FVH (80°-90°)	103.6	0.7			G2/225
BL (0°-30°)	718.5	5.1	B2/1000		
BM (30°-60°)	1885.6	13.4	B2/2500		
BH (60°-80°)	1338.6	9.5	B3/2500		G3/2500
BVH (80°-90°)	83.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0
2.5°	1611.5	1611.5	1611.5	1615.3	1619.2	1623.0	1630.7	1630.7	1630.7	1634.6	1642.3
5°	1580.6	1576.8	1580.6	1584.5	1592.2	1599.9	1615.3	1623.0	1623.0	1638.4	1653.9
7.5°	1584.5	1576.8	1576.8	1580.6	1588.3	1596.0	1611.5	1623.0	1626.9	1646.2	1673.1
10°	1623.0	1611.5	1611.5	1615.3	1615.3	1623.0	1634.6	1650.0	1653.9	1673.1	1700.1
12.5°	1704.0	1692.4	1688.6	1677.0	1665.4	1673.1	1684.7	1688.6	1692.4	1704.0	1731.0
15°	1873.6	1854.3	1823.5	1800.4	1769.5	1750.2	1746.4	1750.2	1750.2	1754.1	1769.5
17.5°	2116.5	2093.4	2047.1	1997.0	1923.7	1862.0	1842.8	1827.4	1827.4	1815.8	1815.8
20°	2413.3	2378.6	2324.7	2251.4	2143.5	2031.7	1966.1	1931.4	1919.9	1900.6	1873.6
22.5°	2756.4	2733.3	2663.9	2552.1	2390.2	2239.9	2131.9	2054.8	2054.8	2008.5	1950.7
25°	3161.2	3118.8	3037.9	2906.8	2687.1	2471.2	2324.7	2212.9	2201.3	2128.1	2035.5
27.5°	3554.5	3527.5	3427.2	3253.8	2991.6	2741.0	2536.7	2405.6	2386.4	2270.7	2128.1
30°	4032.5	4001.7	3851.3	3608.4	3327.0	3041.7	2802.7	2633.1	2613.8	2455.7	2255.3
32.5°	4626.2	4522.1	4337.1	4059.5	3697.1	3377.1	3103.4	2922.2	2899.1	2717.9	2478.9
35°	5347.1	5258.5	4938.5	4645.5	4213.7	3793.5	3465.8	3226.8	3195.9	2980.0	2679.3
37.5°	5856.0	5813.6	5593.9	5362.5	4869.1	4302.4	3901.4	3569.9	3539.0	3253.8	2864.4
40°	6176.0	6133.6	6071.9	6006.4	5732.6	5092.7	4425.7	3974.7	3924.6	3654.7	3234.5
42.5°	6341.8	6307.1	6318.6	6449.7	6526.8	6426.6	5173.6	4514.4	4479.7	4152.0	3685.5
45°	6245.4	6222.2	6334.0	6681.0	7058.8	7799.0	6133.6	5223.8	5131.2	4741.9	4233.0
47.5°	5782.8	5713.4	5975.5	6565.4	7374.9	8454.4	7290.1	6098.9	5998.6	5439.6	4788.1
50°	4830.5	4811.3	5169.8	5917.7	7251.6	8712.7	8527.6	7132.1	7058.8	6191.4	5404.9
52.5°	3943.8	3936.1	4213.7	4899.9	6465.1	8531.5	9425.9	8361.9	8142.1	6947.0	6075.7
55°	3061.0	3057.1	3303.9	3816.6	5158.2	7679.5	9850.0	9614.8	9452.9	7772.0	6765.8
57.5°	2093.4	2066.4	2386.4	2775.7	3874.4	6083.5	9572.4	10605.6	10505.3	8647.1	7498.3
60°	1164.3	1202.8	1557.5	2039.4	2771.9	4098.0	8415.8	11033.5	11018.1	9344.9	8095.9
62.5°	825.0	840.4	990.8	1449.5	1823.5	2347.8	6492.1	10590.2	10713.5	9730.4	8435.1
65°	686.2	693.9	767.2	1071.7	1333.9	1357.0	4047.9	9275.5	9437.5	9610.9	8508.4
67.5°	647.7	651.5	690.1	790.3	1044.8	983.1	1808.1	7081.9	7425.1	8647.1	8030.3
70°	589.8	593.7	651.5	697.8	844.3	774.9	929.1	4703.3	5165.9	6835.2	6923.9
72.5°	505.0	516.6	562.9	655.4	686.2	643.8	717.1	2513.6	2972.3	4572.2	5347.1
75°	435.6	443.3	478.0	555.1	643.8	512.7	609.1	1145.0	1341.6	2683.2	3384.8
77.5°	350.8	354.7	404.8	454.9	539.7	416.4	474.2	686.2	720.9	1310.8	1530.5
80°	266.0	266.0	300.7	362.4	400.9	400.9	347.0	478.0	497.3	624.5	605.3
82.5°	204.3	200.5	227.5	254.4	289.1	335.4	262.2	316.1	323.8	377.8	323.8
85°	134.9	134.9	150.4	173.5	192.8	185.0	204.3	185.0	192.8	235.2	177.3
87.5°	57.8	57.8	81.0	77.1	84.8	88.7	100.2	88.7	88.7	107.9	81.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P572818
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0	1650.0
2.5°	1646.2	1650.0	1657.7	1661.6	1673.1	1677.0	1677.0	1684.7	1684.7	1692.4	1692.4
5°	1657.7	1669.3	1680.9	1692.4	1704.0	1707.8	1715.6	1719.4	1719.4	1727.1	1723.3
7.5°	1680.9	1692.4	1715.6	1727.1	1742.5	1750.2	1746.4	1750.2	1746.4	1750.2	1750.2
10°	1711.7	1727.1	1754.1	1769.5	1781.1	1784.9	1773.4	1761.8	1746.4	1746.4	1746.4
12.5°	1746.4	1758.0	1792.7	1804.2	1811.9	1800.4	1769.5	1746.4	1734.8	1738.7	1734.8
15°	1781.1	1792.7	1819.6	1831.2	1831.2	1796.5	1769.5	1761.8	1758.0	1761.8	1761.8
17.5°	1815.8	1827.4	1850.5	1850.5	1838.9	1811.9	1784.9	1758.0	1738.7	1727.1	1727.1
20°	1862.0	1862.0	1869.8	1869.8	1865.9	1823.5	1758.0	1692.4	1653.9	1630.7	1626.9
22.5°	1923.7	1908.3	1892.9	1892.9	1908.3	1796.5	1669.3	1569.1	1507.4	1499.7	1484.2
25°	1989.3	1954.6	1916.0	1943.0	1916.0	1727.1	1545.9	1411.0	1337.7	1310.8	1318.5
27.5°	2058.7	2004.7	1946.9	2024.0	1877.5	1592.2	1372.4	1222.1	1152.7	1133.4	1133.4
30°	2155.0	2074.1	1989.3	2108.8	1804.2	1438.0	1168.1	1060.2	1021.6	1006.2	1002.3
32.5°	2340.1	2216.7	2093.4	2185.9	1723.3	1237.5	1029.3	963.8	917.5	902.1	913.7
35°	2505.9	2332.4	2251.4	2220.6	1596.0	1075.6	944.5	886.7	848.1	828.9	828.9
37.5°	2656.2	2490.4	2428.8	2220.6	1430.3	975.4	890.5	844.3	794.2	778.7	778.7
40°	2983.9	2764.2	2656.2	2189.7	1225.9	925.2	863.6	809.6	767.2	751.8	747.9
42.5°	3435.0	3138.1	2891.4	2120.3	1052.5	902.1	848.1	786.5	751.8	740.2	736.3
45°	3913.0	3650.8	3115.0	1997.0	940.7	879.0	844.3	778.7	736.3	724.8	720.9
47.5°	4491.3	4221.4	3373.3	1808.1	863.6	863.6	840.4	767.2	728.6	717.1	717.1
50°	5131.2	4907.6	3701.0	1592.2	805.7	852.0	832.7	767.2	724.8	713.2	709.4
52.5°	5786.6	5682.5	4044.1	1380.2	747.9	836.6	828.9	767.2	717.1	705.5	705.5
55°	6619.3	6534.5	4441.2	1222.1	701.6	805.7	828.9	759.5	705.5	697.8	697.8
57.5°	7436.6	7405.8	4749.6	1083.3	666.9	767.2	817.3	747.9	693.9	690.1	690.1
60°	8134.4	8103.6	4880.6	909.8	632.2	728.6	794.2	728.6	674.7	678.5	678.5
62.5°	8566.2	8388.9	4784.3	751.8	597.6	693.9	767.2	705.5	655.4	666.9	663.1
65°	8643.3	8230.8	4410.3	628.4	559.0	655.4	736.3	678.5	628.4	655.4	651.5
67.5°	8076.6	7390.4	3708.7	547.4	520.4	613.0	701.6	640.0	597.6	636.1	624.5
70°	6850.6	6002.5	2744.9	485.8	481.9	562.9	655.4	593.7	555.1	574.4	559.0
72.5°	5100.4	4333.2	1777.2	439.5	439.5	505.0	589.8	535.9	497.3	501.2	485.8
75°	3180.5	2663.9	1010.1	397.1	397.1	447.2	524.3	470.3	443.3	427.9	447.2
77.5°	1445.7	1172.0	532.0	354.7	358.5	381.7	451.1	400.9	370.1	347.0	358.5
80°	535.9	478.0	347.0	304.6	312.3	316.1	362.4	320.0	293.0	277.6	269.9
82.5°	277.6	258.3	235.2	242.9	254.4	242.9	281.4	239.0	208.2	196.6	165.8
85°	138.8	134.9	142.6	161.9	177.3	150.4	169.6	154.2	127.2	92.5	92.5
87.5°	54.0	57.8	54.0	73.2	81.0	69.4	77.1	54.0	38.6	19.3	15.4
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)