

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: P399347

Luminaire Tested: **ARCH-L-PA3-130-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399347
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-PA3-130-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 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: 13293 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

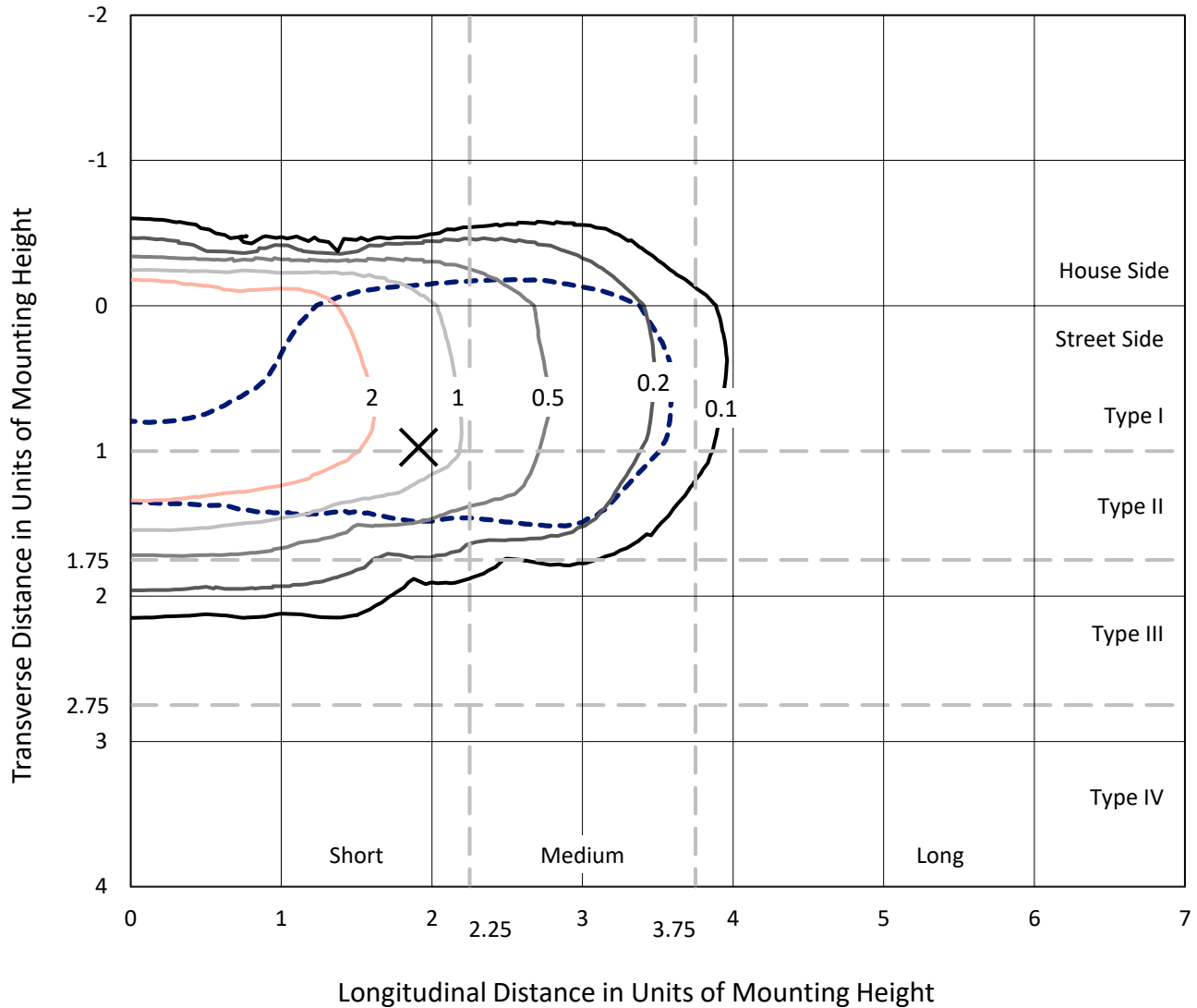
Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

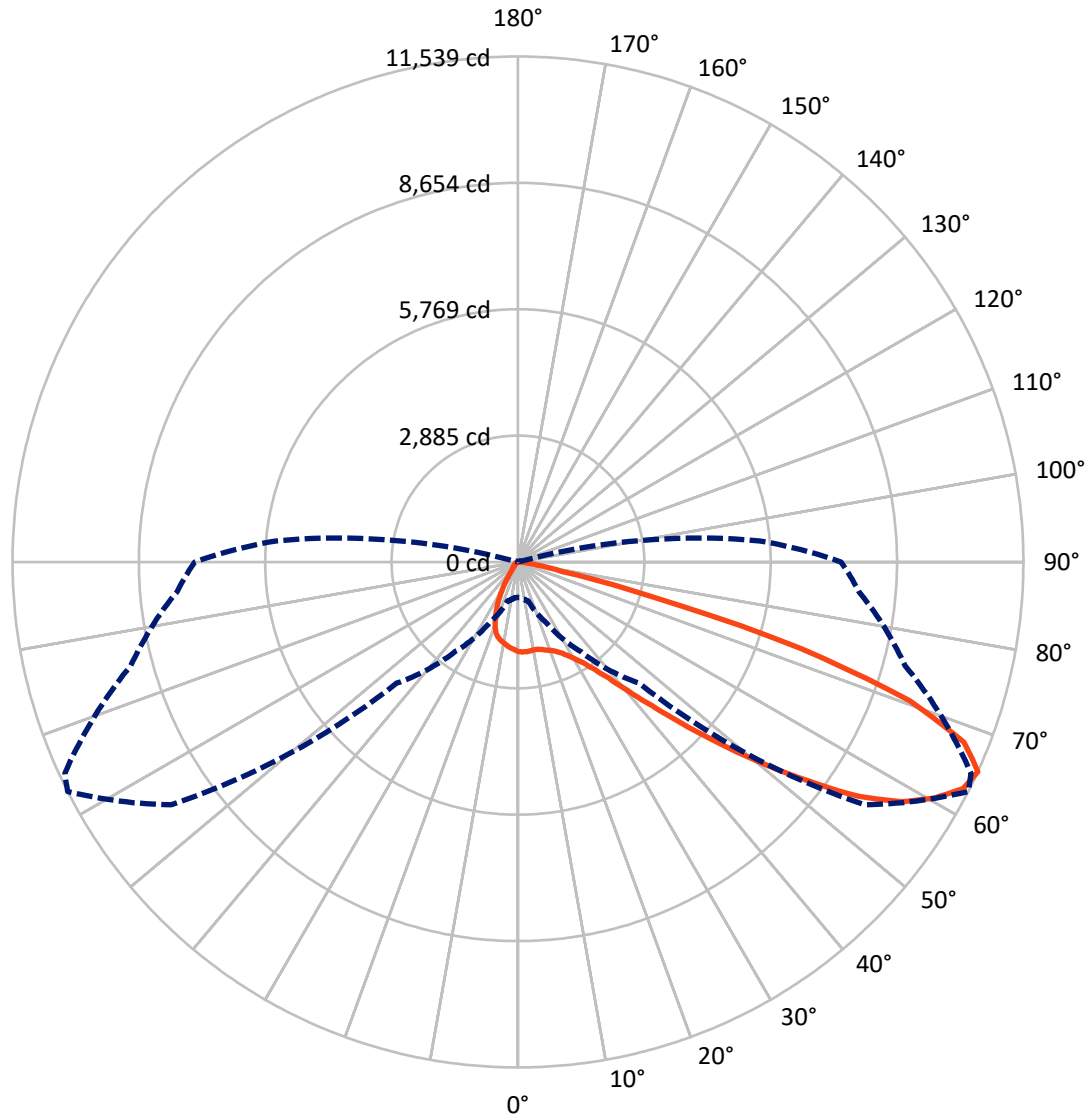
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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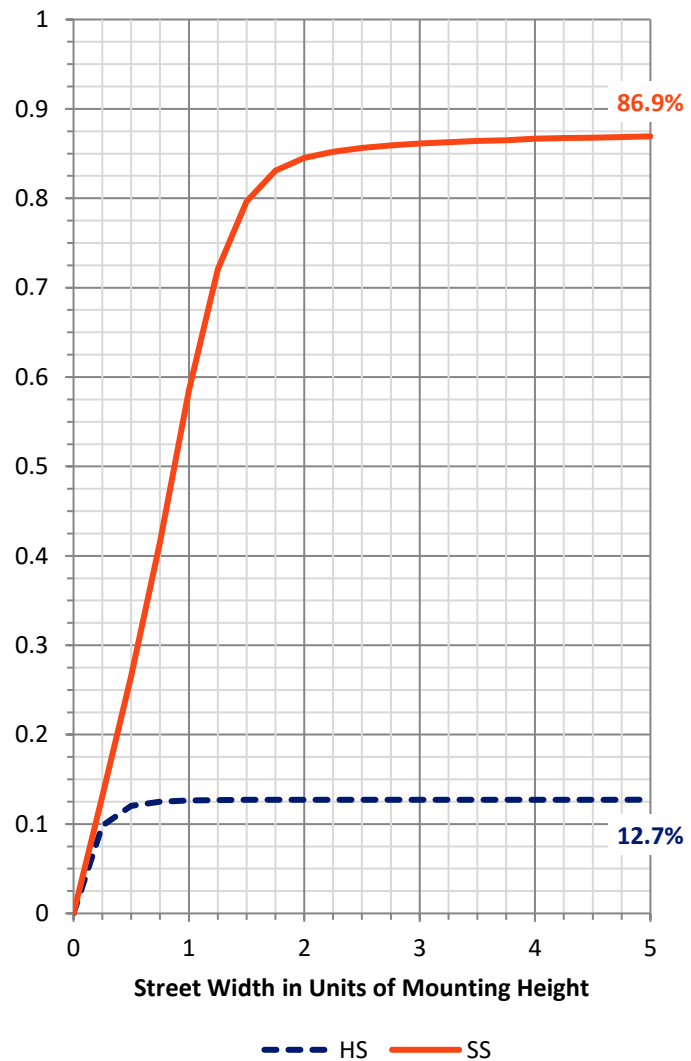
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.8	0.0	1710.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	11582.2	0.0	11582.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	13293.0	0.0	13293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.4
10°-20°	460.9	3.5
20°-30°	683.2	5.1
30°-40°	1268.6	9.5
40°-50°	2687.4	20.2
50°-60°	3716.0	28.0
60°-70°	2974.7	22.4
70°-80°	1235.9	9.3
80°-90°	79.4	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°	13293.0	100.0
0°-180°	13293.0	100.0



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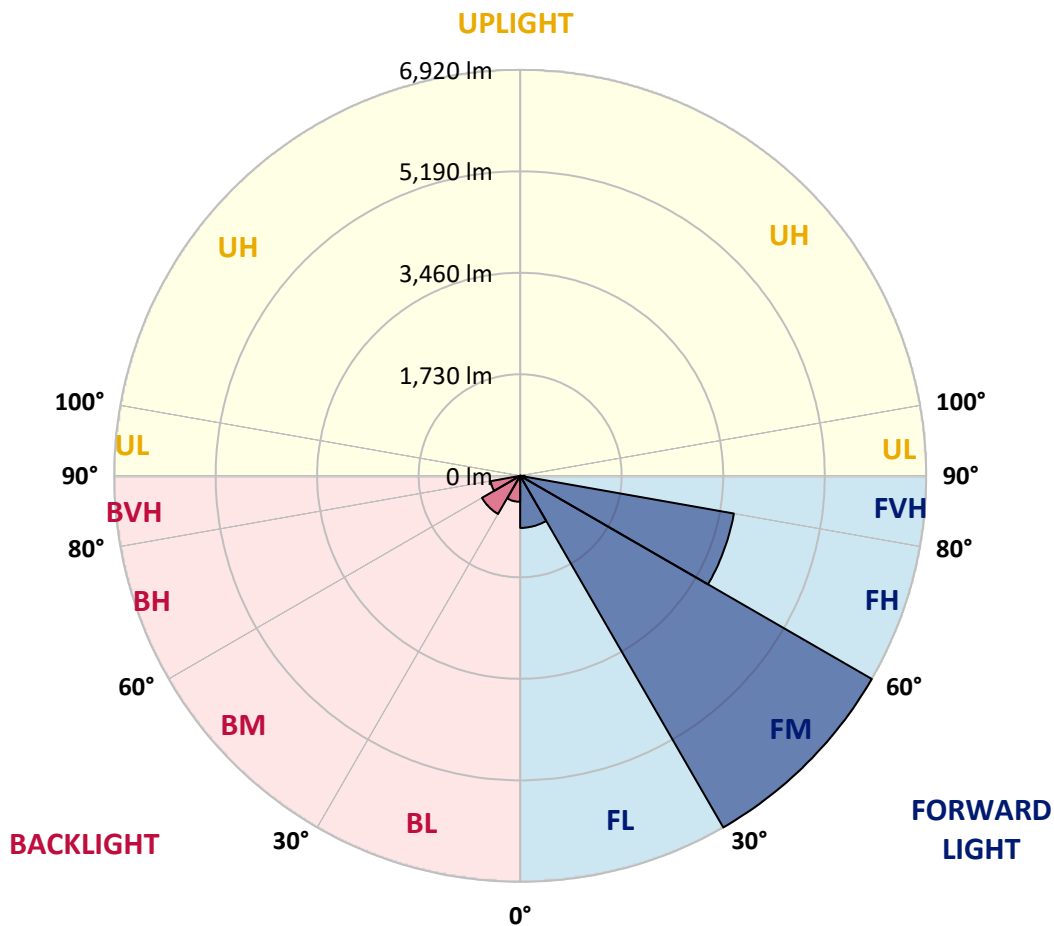
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.7	6.7			
FM (30°-60°)	6920.4	52.1			
FH (60°-80°)	3698.4	27.8			G2/5000
FVH (80°-90°)	75.7	0.6			G1/100
BL (0°-30°)	443.4	3.3	B1/500		
BM (30°-60°)	751.5	5.7	B1/1000		
BH (60°-80°)	512.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2082.9	2077.9	2072.9	2070.4	2070.4	2067.9	2057.8	2055.3	2050.3	2045.3	2040.3
5°	2062.9	2055.3	2052.8	2055.3	2057.8	2062.9	2057.8	2057.8	2052.8	2047.8	2037.8
7.5°	2012.7	2007.6	2010.2	2017.7	2020.2	2037.8	2040.3	2047.8	2047.8	2042.8	2035.2
10°	1952.4	1949.9	1949.9	1962.5	1975.0	2000.1	2017.7	2037.8	2040.3	2040.3	2027.7
12.5°	1907.3	1904.7	1912.3	1927.3	1952.4	1985.1	2015.2	2045.3	2050.3	2052.8	2032.7
15°	1879.7	1879.7	1889.7	1919.8	1954.9	2000.1	2035.2	2075.4	2080.4	2077.9	2050.3
17.5°	1854.6	1857.1	1877.1	1927.3	1967.5	2027.7	2070.4	2115.6	2118.1	2115.6	2070.4
20°	1844.5	1849.5	1879.7	1944.9	1990.1	2057.8	2113.0	2158.2	2160.7	2150.7	2090.5
22.5°	1872.1	1874.6	1912.3	1982.5	2025.2	2100.5	2170.8	2213.4	2215.9	2200.9	2120.6
25°	1967.5	1967.5	2000.1	2060.3	2098.0	2173.3	2248.6	2298.7	2298.7	2281.2	2188.3
27.5°	2190.8	2170.8	2163.2	2180.8	2193.3	2273.7	2354.0	2416.7	2414.2	2389.1	2276.2
30°	2622.5	2572.3	2492.0	2401.6	2356.5	2411.7	2487.0	2567.3	2564.8	2524.6	2384.1
32.5°	3347.7	3275.0	3084.2	2845.8	2652.6	2589.9	2660.1	2748.0	2750.5	2702.8	2557.2
35°	4364.1	4248.7	3907.4	3576.1	3134.4	2896.0	2916.1	3011.5	3041.6	3016.5	2848.3
37.5°	5342.8	5237.4	4911.2	4451.9	3852.2	3365.3	3280.0	3362.8	3397.9	3397.9	3219.8
40°	6329.1	6206.1	5917.5	5455.8	4823.4	4098.1	3791.9	3859.7	3897.3	3904.9	3671.5
42.5°	7119.6	7039.3	6818.5	6459.6	5867.3	5383.0	4529.7	4492.1	4527.2	4499.6	4196.0
45°	7666.7	7603.9	7450.9	7315.3	7026.7	6783.3	5516.0	5262.5	5285.1	5189.8	4785.7
47.5°	7779.6	7709.3	7676.7	7864.9	8070.7	8130.9	6728.1	6178.5	6155.9	5945.1	5398.0
50°	7287.7	7295.3	7415.7	7952.8	8811.0	9353.1	8133.5	7212.5	7129.6	6660.3	5967.7
52.5°	6226.2	6346.7	6650.3	7521.1	9036.9	10241.5	9538.8	8309.1	8181.1	7355.5	6394.3
55°	4871.0	5026.6	5526.0	6527.3	8565.1	10638.0	10723.3	9448.5	9157.4	7877.5	6725.6
57.5°	3621.3	3669.0	4251.2	5164.7	7448.3	10249.0	11330.6	10326.8	9952.9	8294.1	7054.3
60°	2256.1	2286.2	2901.0	3932.5	5641.5	8811.0	11330.6	10931.6	10575.2	8668.0	7355.5
62.5°	1402.8	1412.9	1643.8	2695.3	3834.6	6534.9	10861.3	11400.9	11114.8	8936.5	7614.0
65°	808.1	818.1	926.0	1523.3	2494.5	3912.4	9661.8	11538.9	11410.9	9149.8	7814.7
67.5°	589.7	594.8	637.4	855.8	1631.2	2010.2	7257.6	10984.3	11144.9	9255.2	7809.7
70°	511.9	519.5	574.7	667.5	1177.0	1234.7	3694.1	9486.1	9935.3	9104.7	7576.3
72.5°	394.0	404.0	486.9	627.4	863.3	888.4	1337.6	6750.7	7430.8	8163.6	6936.4
75°	271.0	281.1	363.9	517.0	712.7	665.0	735.3	3106.8	3919.9	5475.8	5280.1
77.5°	173.2	175.7	228.4	376.4	614.8	471.8	504.4	1013.9	1422.9	2476.9	2492.0
80°	115.4	117.9	140.5	243.4	421.6	436.7	311.2	469.3	514.5	722.8	501.9
82.5°	70.3	70.3	95.4	153.1	256.0	361.4	203.3	245.9	263.5	278.6	130.5
85°	27.6	27.6	57.7	100.4	160.6	168.1	128.0	143.0	150.6	163.1	60.2
87.5°	7.5	7.5	32.6	55.2	70.3	77.8	77.8	70.3	75.3	92.9	30.1
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°	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2037.8	2030.2	2020.2	2010.2	2000.1	1992.6	1985.1	1985.1	1980.0	1972.5	1967.5
5°	2032.7	2020.2	1997.6	1980.0	1952.4	1932.4	1917.3	1904.7	1897.2	1879.7	1877.1
7.5°	2025.2	2010.2	1977.5	1942.4	1897.2	1862.1	1827.0	1801.9	1776.8	1756.7	1751.7
10°	2012.7	1995.1	1947.4	1897.2	1834.5	1769.2	1686.4	1591.1	1503.2	1453.0	1438.0
12.5°	2012.7	1990.1	1927.3	1859.6	1769.2	1608.6	1397.8	1187.0	1023.9	951.1	931.0
15°	2025.2	1995.1	1912.3	1819.4	1651.3	1325.0	983.7	705.2	527.0	471.8	459.2
17.5°	2037.8	1995.1	1889.7	1764.2	1435.5	961.2	559.6	371.4	313.7	301.1	301.1
20°	2042.8	1990.1	1859.6	1661.3	1146.9	597.3	333.8	278.6	256.0	248.4	248.4
22.5°	2062.9	1992.6	1837.0	1513.3	833.2	351.3	263.5	233.4	210.8	203.3	203.3
25°	2113.0	2022.7	1842.0	1325.0	534.5	266.0	223.4	193.2	170.6	160.6	160.6
27.5°	2193.3	2090.5	1869.6	1106.7	336.3	228.4	188.2	155.6	138.0	128.0	128.0
30°	2283.7	2165.7	1882.2	855.8	251.0	193.2	153.1	123.0	110.4	102.9	100.4
32.5°	2441.8	2296.2	1872.1	587.2	205.8	163.1	123.0	97.9	87.8	85.3	85.3
35°	2695.3	2524.6	1852.0	368.9	170.6	130.5	97.9	80.3	72.8	70.3	67.8
37.5°	3039.1	2858.4	1791.8	243.4	140.5	102.9	80.3	67.8	60.2	57.7	57.7
40°	3458.2	3239.8	1676.4	185.7	120.5	82.8	67.8	57.7	52.7	50.2	50.2
42.5°	3937.5	3663.9	1493.2	160.6	100.4	70.3	57.7	47.7	45.2	42.7	42.7
45°	4462.0	4108.1	1239.7	143.0	85.3	57.7	47.7	42.7	37.6	37.6	35.1
47.5°	5019.1	4554.8	953.6	125.5	72.8	50.2	42.7	35.1	32.6	30.1	30.1
50°	5556.1	4953.9	670.1	107.9	60.2	42.7	35.1	30.1	27.6	25.1	25.1
52.5°	5935.1	5194.8	474.3	92.9	50.2	37.6	27.6	22.6	20.1	20.1	20.1
55°	6238.7	5345.3	331.3	77.8	42.7	32.6	22.6	17.6	17.6	15.1	15.1
57.5°	6524.8	5443.2	243.4	65.2	35.1	25.1	17.6	12.5	12.5	10.0	10.0
60°	6821.0	5495.9	185.7	52.7	30.1	20.1	12.5	10.0	7.5	7.5	7.5
62.5°	7119.6	5528.5	143.0	42.7	25.1	15.1	10.0	7.5	5.0	2.5	2.5
65°	7380.6	5538.6	110.4	32.6	20.1	10.0	7.5	2.5	0.0	0.0	0.0
67.5°	7458.4	5423.1	85.3	25.1	15.1	7.5	5.0	0.0	0.0	0.0	0.0
70°	7247.6	5117.0	65.2	20.1	12.5	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	6432.0	4291.3	50.2	12.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0
75°	4602.5	2288.7	35.1	10.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	2118.1	885.9	25.1	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
80°	414.1	220.8	10.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.4	37.6	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.6	12.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	2.5	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)