

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: P233737

Luminaire Tested: **VERD-C02H8-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H8-D-U-T3-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12522 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 110
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

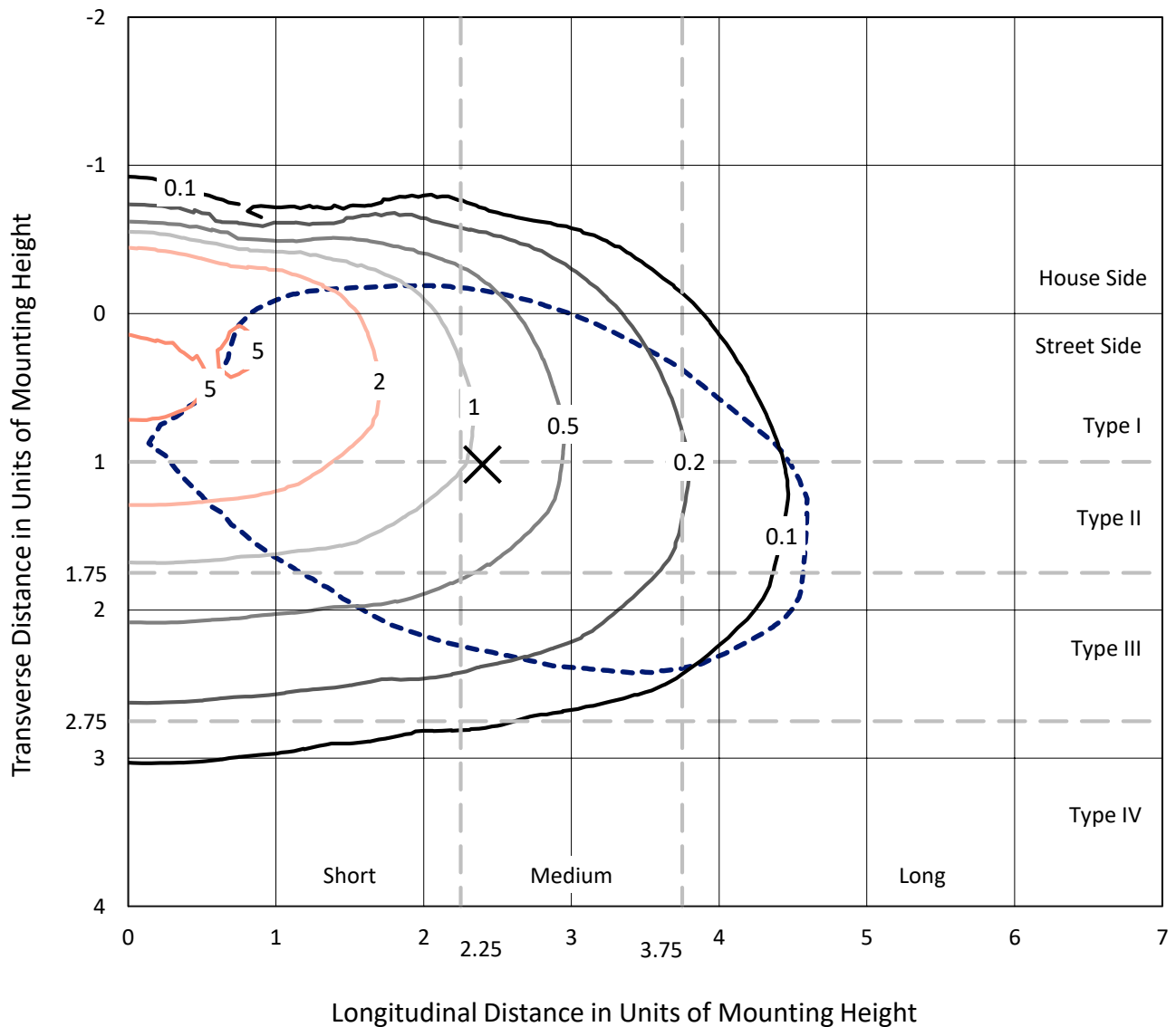


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

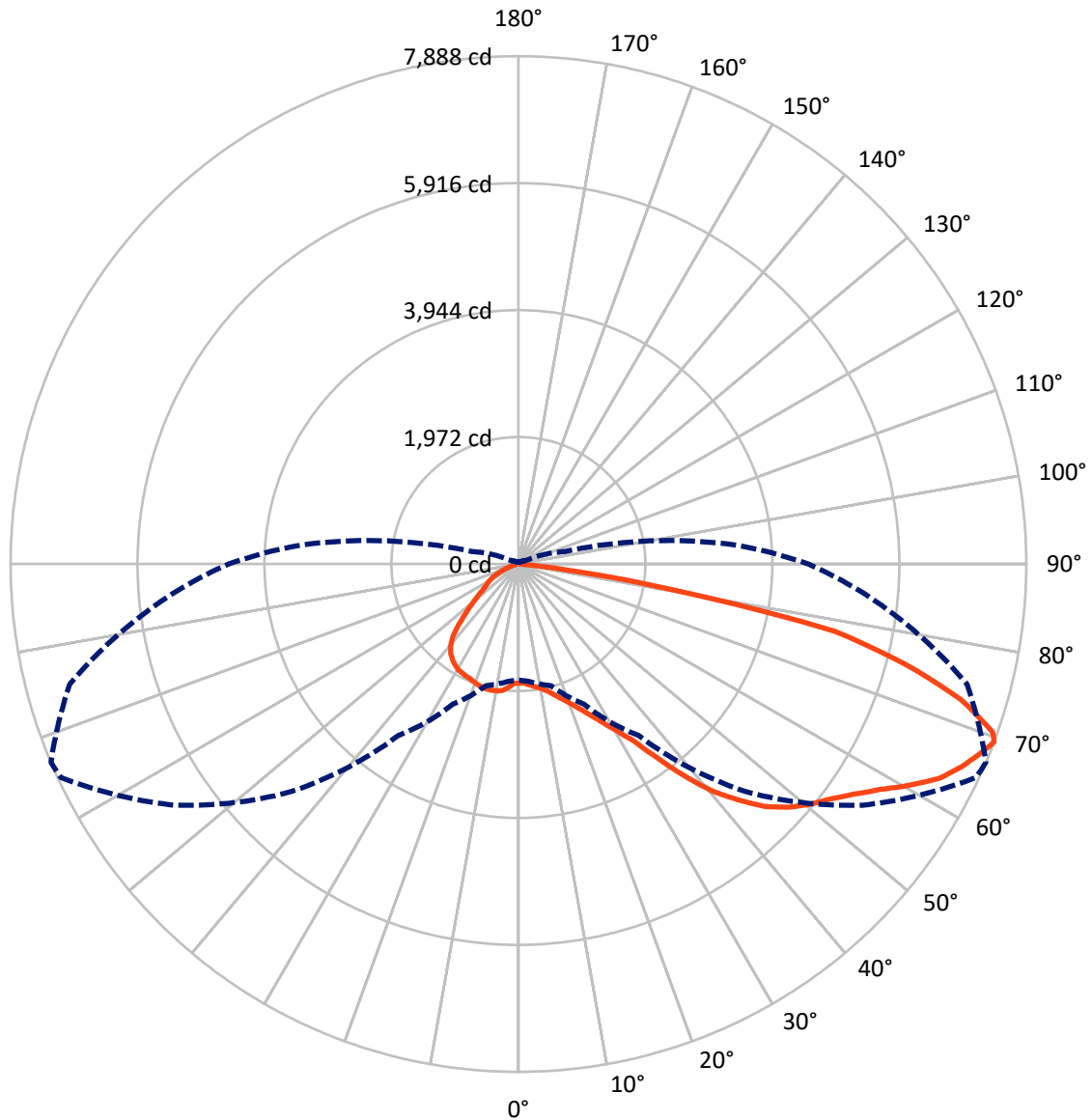


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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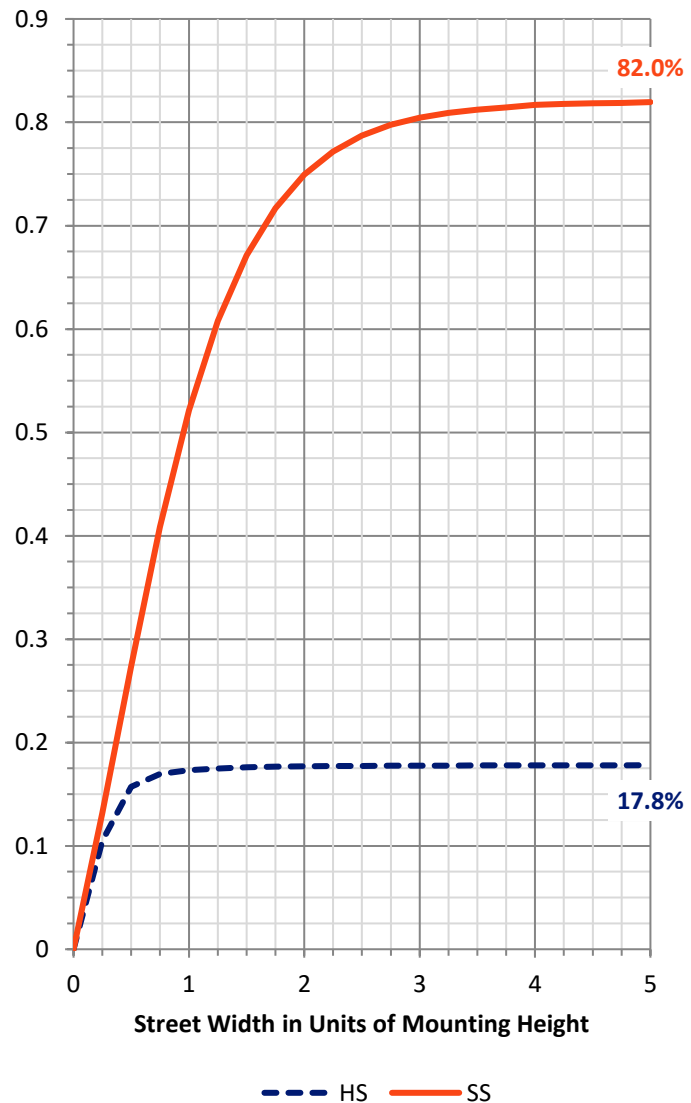
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.4	0.0	2257.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10264.6	0.0	10264.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	12522.0	0.0	12522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.5
10°-20°	587.8	4.7
20°-30°	1003.4	8.0
30°-40°	1517.1	12.1
40°-50°	2143.2	17.1
50°-60°	2590.1	20.7
60°-70°	2733.1	21.8
70°-80°	1645.3	13.1
80°-90°	115.0	0.9
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°	12522.0	100.0
0°-180°	12522.0	100.0

Coefficient of Utilization



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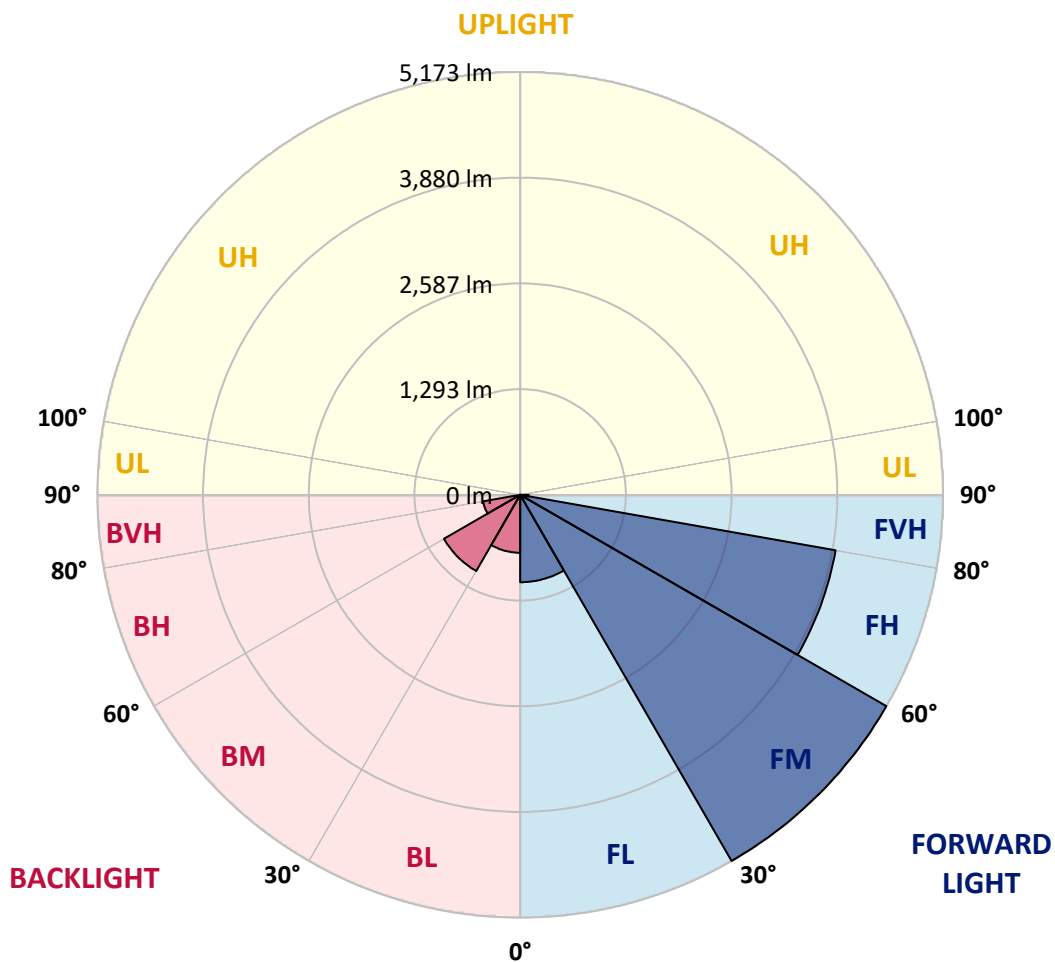
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1069.2	8.5			
FM	(30°-60°)	5173.4	41.3			
FH	(60°-80°)	3918.1	31.3			G2/5000
FVH	(80°-90°)	103.8	0.8			G2/225
BL	(0°-30°)	708.9	5.7	B2/1000		
BM	(30°-60°)	1077.1	8.6	B2/2500		
BH	(60°-80°)	460.2	3.7	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1899.7	1896.7	1896.7	1879.8	1863.8	1859.8	1858.8	1853.8	1854.8	1847.8	1840.8
5°	1954.6	1954.6	1952.6	1930.6	1913.7	1902.7	1895.7	1886.7	1887.7	1882.7	1876.8
7.5°	2037.4	2038.4	2034.4	2005.5	1988.5	1961.6	1945.6	1928.6	1927.6	1921.7	1923.7
10°	2139.2	2142.2	2136.2	2099.3	2070.3	2033.4	1999.5	1969.5	1967.6	1960.6	1966.6
12.5°	2253.9	2257.9	2242.9	2205.0	2172.1	2114.2	2073.3	2033.4	2027.4	2026.4	2030.4
15°	2385.6	2387.6	2382.6	2326.7	2286.8	2234.0	2167.1	2116.2	2110.2	2111.2	2106.2
17.5°	2532.3	2537.3	2526.3	2476.4	2423.5	2350.7	2270.9	2208.0	2205.0	2202.0	2180.1
20°	2687.9	2692.9	2685.9	2639.0	2576.2	2484.4	2386.6	2314.8	2313.8	2306.8	2255.9
22.5°	2863.5	2870.5	2866.5	2809.7	2742.8	2643.0	2521.3	2446.5	2444.5	2422.5	2345.7
25°	3054.1	3052.1	3056.1	2995.2	2932.4	2827.6	2677.0	2599.1	2599.1	2572.2	2458.4
27.5°	3238.7	3237.7	3244.7	3201.8	3135.9	3037.1	2855.5	2776.7	2783.7	2744.8	2594.1
30°	3418.3	3418.3	3435.2	3407.3	3358.4	3254.6	3077.0	2994.2	3003.2	2962.3	2765.7
32.5°	3585.9	3593.9	3622.8	3605.9	3568.9	3475.1	3323.5	3247.7	3268.6	3285.6	3085.0
35°	3709.6	3717.6	3784.4	3790.4	3781.5	3718.6	3605.9	3654.7	3679.7	3813.4	3589.9
37.5°	3818.4	3828.3	3908.2	3958.1	3987.0	3948.1	3955.1	4118.7	4165.6	4323.2	4020.9
40°	3898.2	3920.1	3999.0	4067.8	4169.6	4215.5	4329.2	4561.7	4637.5	4700.4	4317.2
42.5°	3843.3	3858.3	3997.0	4181.5	4330.2	4491.8	4676.4	4952.8	5009.7	4989.7	4578.7
45°	3762.5	3780.5	3926.1	4211.5	4457.9	4780.2	5005.7	5305.0	5369.9	5259.1	4804.1
47.5°	3671.7	3696.6	3854.3	4171.6	4564.7	5045.6	5304.0	5607.3	5645.2	5499.6	4993.7
50°	3579.9	3607.8	3786.4	4138.6	4647.5	5267.1	5521.5	5853.8	5864.7	5699.1	5164.3
52.5°	3456.2	3485.1	3680.7	4069.8	4705.4	5412.8	5712.1	6056.3	6063.3	5914.6	5326.0
55°	3299.5	3336.5	3543.0	3968.0	4719.3	5497.6	5832.8	6266.8	6313.7	6148.1	5458.7
57.5°	3115.0	3148.9	3376.4	3821.4	4649.5	5526.5	6001.4	6545.2	6610.1	6384.6	5568.4
60°	2902.4	2941.4	3169.8	3631.8	4508.8	5607.3	6280.8	6938.3	6977.2	6632.0	5665.2
62.5°	2684.9	2712.9	2920.4	3365.4	4289.3	5656.2	6528.2	7307.5	7333.4	6870.5	5723.1
65°	2375.6	2410.6	2613.1	3060.1	3973.0	5562.4	6623.0	7559.9	7575.9	7070.0	5695.1
67.5°	2039.4	2067.3	2215.0	2691.9	3558.0	5265.1	6584.1	7728.5	7779.4	7225.7	5568.4
69°	1800.9	1828.9	1956.6	2397.6	3249.7	5001.7	6529.2	7843.3	7888.2	7214.7	5406.8
70°	1615.3	1643.3	1764.0	2178.1	3008.2	4779.2	6442.4	7785.4	7814.3	7092.0	5249.1
72.5°	1155.4	1183.3	1282.1	1531.5	2278.8	3928.1	5904.7	7142.9	7181.8	6502.3	4691.4
75°	604.6	671.5	849.1	989.8	1349.9	2765.7	4908.9	6143.1	6200.0	5706.1	3858.3
77.5°	77.8	81.8	239.5	402.1	557.7	1166.4	3487.1	4932.9	5022.6	4566.7	2668.0
80°	62.9	63.9	82.8	200.5	277.4	472.9	1237.2	2308.8	2417.5	2029.4	980.8
82.5°	43.9	45.9	64.9	105.8	90.8	172.6	430.0	652.5	672.5	581.7	391.1
85°	24.9	24.9	30.9	40.9	28.9	64.9	88.8	94.8	84.8	83.8	62.9
87.5°	7.0	8.0	9.0	7.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0
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°	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8	1851.8
2.5°	1851.8	1849.8	1850.8	1854.8	1860.8	1882.7	1897.7	1899.7	1906.7	1932.6	1929.6
5°	1883.7	1895.7	1902.7	1923.7	1937.6	1967.6	1985.5	1987.5	1997.5	2024.4	2025.4
7.5°	1928.6	1948.6	1958.6	1982.5	1987.5	2001.5	2006.5	2001.5	2002.5	2026.4	2028.4
10°	1967.6	1992.5	1992.5	1998.5	1989.5	1990.5	1974.5	1959.6	1951.6	1972.5	1977.5
12.5°	2027.4	2034.4	2018.4	2000.5	1973.5	1949.6	1922.7	1898.7	1879.8	1891.7	1884.7
15°	2089.3	2078.3	2039.4	1992.5	1944.6	1903.7	1847.8	1812.9	1780.0	1787.0	1781.0
17.5°	2151.1	2115.2	2054.4	1976.5	1906.7	1828.9	1751.0	1696.2	1636.3	1631.3	1622.3
20°	2211.0	2159.1	2058.3	1943.6	1845.8	1736.1	1615.3	1521.6	1432.8	1409.8	1394.8
22.5°	2282.8	2208.0	2063.3	1911.7	1780.0	1630.3	1447.7	1302.1	1206.3	1174.3	1159.4
25°	2374.6	2275.9	2077.3	1887.7	1713.1	1499.6	1249.2	1082.6	978.8	923.9	918.9
27.5°	2483.4	2357.7	2101.3	1856.8	1618.3	1325.0	1043.6	870.0	759.3	703.4	685.5
30°	2626.1	2459.4	2123.2	1832.9	1484.6	1134.4	828.1	634.6	502.9	466.9	448.0
32.5°	2896.5	2625.1	2151.1	1777.0	1327.0	925.9	586.7	391.1	301.3	277.4	277.4
35°	3336.5	2989.2	2221.0	1700.2	1137.4	674.5	352.2	219.5	179.6	165.6	158.6
37.5°	3733.6	3356.4	2395.6	1581.4	907.0	399.1	201.5	135.7	122.7	124.7	124.7
40°	4013.9	3607.8	2588.2	1420.8	615.6	213.5	127.7	108.8	110.7	111.7	111.7
42.5°	4254.4	3822.4	2693.9	1230.2	335.2	138.7	109.8	98.8	101.8	100.8	99.8
45°	4455.9	3997.0	2728.8	967.8	162.6	122.7	99.8	90.8	90.8	89.8	89.8
47.5°	4628.5	4151.6	2664.0	719.4	131.7	112.7	94.8	83.8	82.8	87.8	87.8
50°	4786.2	4271.3	2502.3	544.8	127.7	103.8	89.8	77.8	78.8	85.8	85.8
52.5°	4917.9	4342.2	2262.9	408.1	118.7	95.8	82.8	72.8	72.8	79.8	79.8
55°	5015.7	4342.2	2080.3	305.3	113.7	87.8	76.8	69.8	65.9	67.8	68.8
57.5°	5064.6	4260.4	1933.6	247.4	107.8	79.8	70.8	60.9	53.9	55.9	54.9
60°	5051.6	4213.5	1765.0	220.5	100.8	73.8	62.9	51.9	44.9	42.9	42.9
62.5°	5027.6	4160.6	1554.5	191.6	93.8	68.8	51.9	41.9	37.9	35.9	36.9
65°	4936.8	3989.0	1288.1	159.6	86.8	66.8	43.9	36.9	32.9	30.9	30.9
67.5°	4717.3	3679.7	973.8	134.7	80.8	53.9	37.9	31.9	27.9	25.9	25.9
69°	4499.8	3384.4	747.3	122.7	76.8	48.9	34.9	28.9	25.9	22.9	22.9
70°	4312.3	3155.9	585.7	114.7	73.8	46.9	33.9	27.9	24.9	22.0	22.0
72.5°	3671.7	2503.3	297.3	99.8	61.9	40.9	29.9	24.9	21.0	18.0	18.0
75°	2848.6	1725.1	196.6	78.8	47.9	36.9	26.9	22.0	18.0	15.0	14.0
77.5°	1714.1	674.5	140.7	50.9	30.9	28.9	22.0	18.0	15.0	12.0	12.0
80°	472.9	289.3	94.8	33.9	18.0	19.0	16.0	13.0	11.0	9.0	9.0
82.5°	284.4	187.6	62.9	22.0	12.0	12.0	9.0	9.0	7.0	7.0	7.0
85°	48.9	37.9	15.0	9.0	7.0	7.0	5.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	4.0	4.0	3.0	2.0	1.0	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)