

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: P509233

Luminaire Tested: **VERD-CA2-130-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-130-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1180mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18688 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

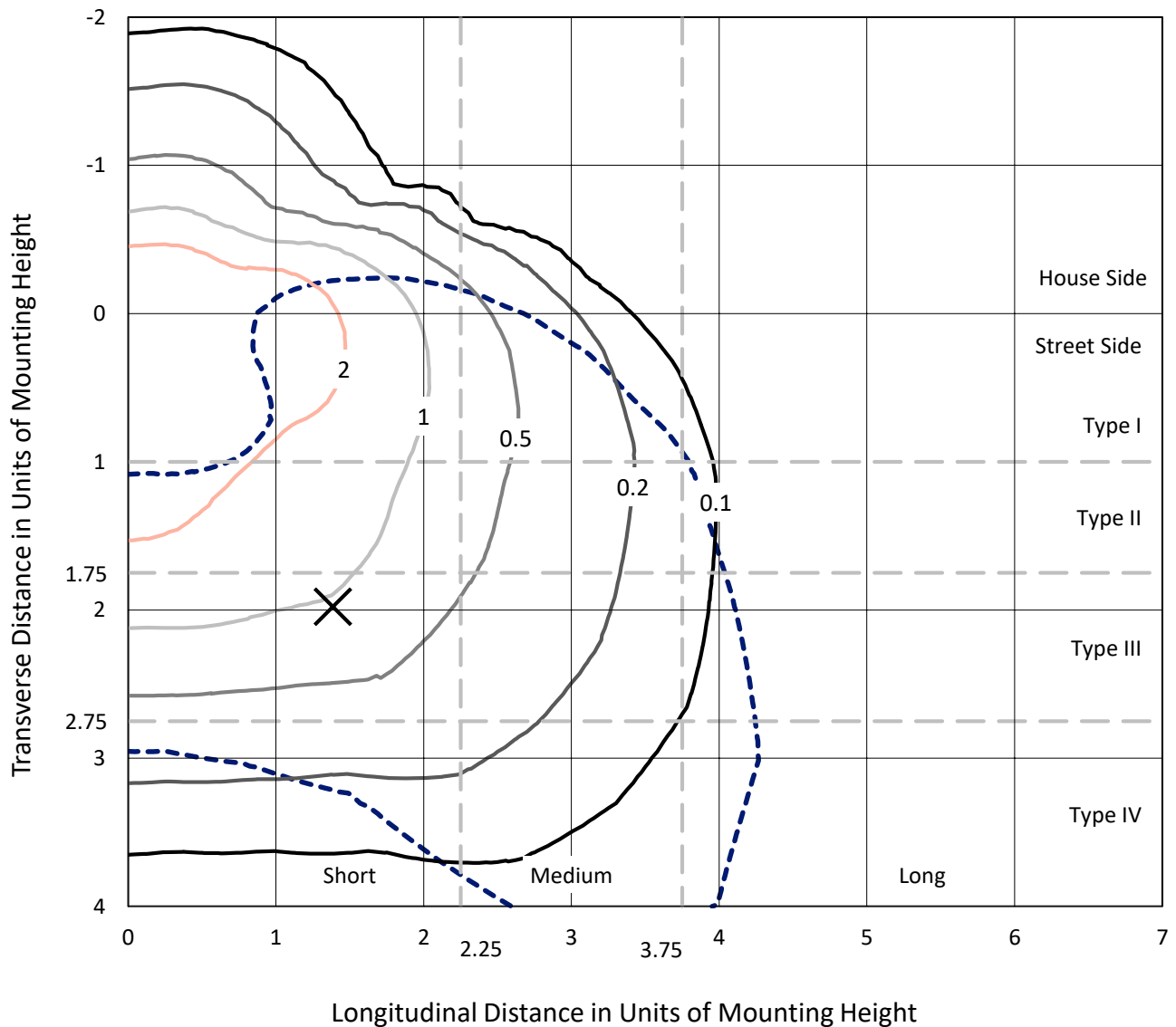
Input Watts (W): 131.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

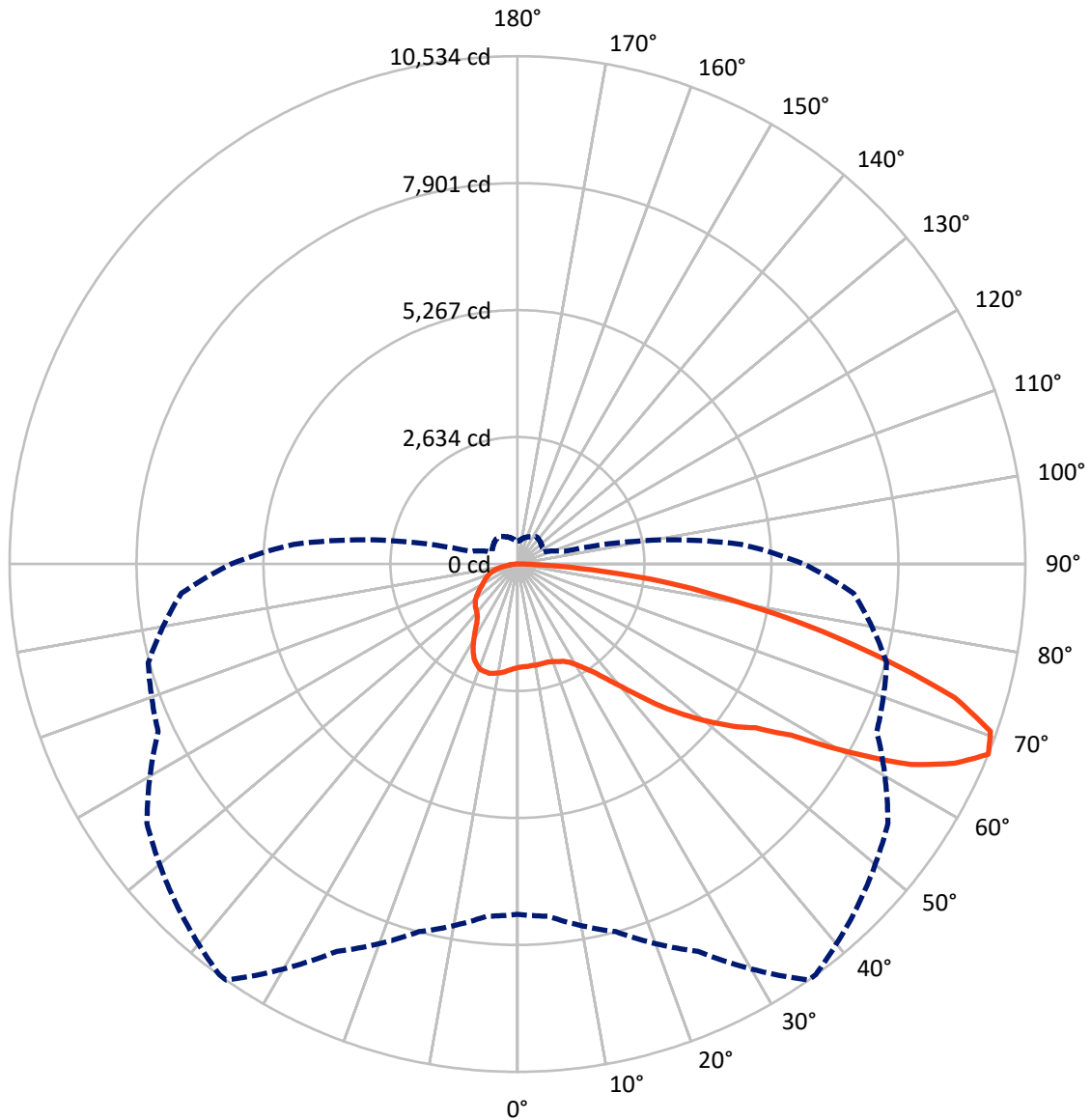
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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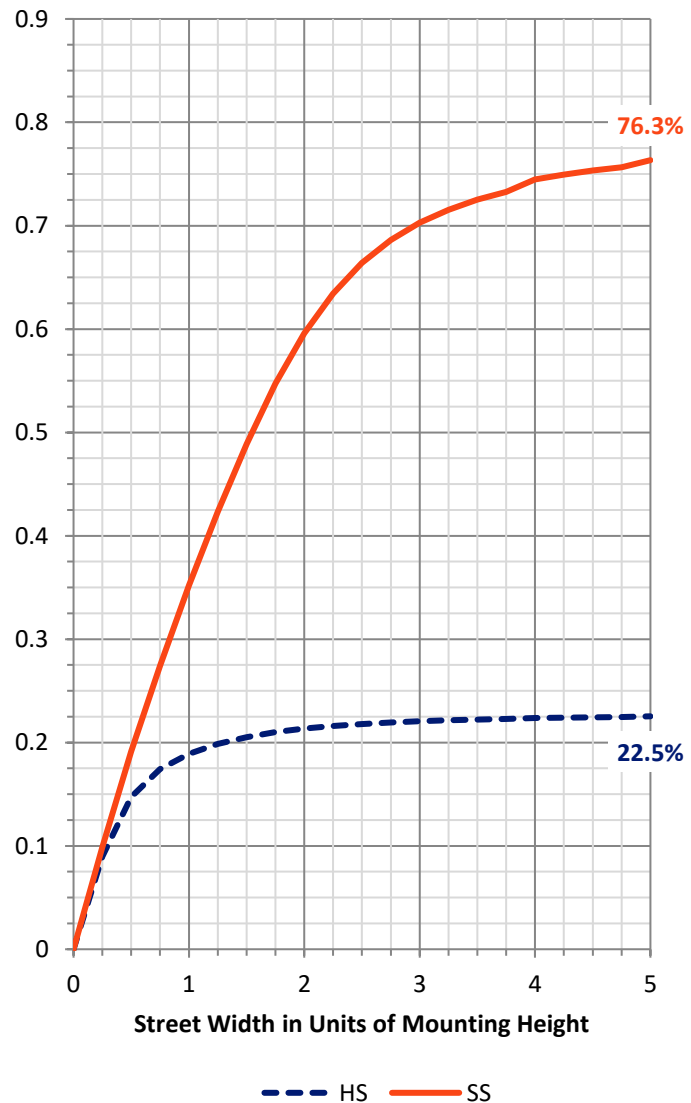
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4257.5	0.0	4257.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	14430.5	0.0	14430.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	18688.0	0.0	18688.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	1.1
10°-20°	637.5	3.4
20°-30°	1063.9	5.7
30°-40°	1636.9	8.8
40°-50°	2697.6	14.4
50°-60°	3853.1	20.6
60°-70°	4797.3	25.7
70°-80°	3237.4	17.3
80°-90°	556.5	3.0
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°	18688.0	100.0
0°-180°	18688.0	100.0



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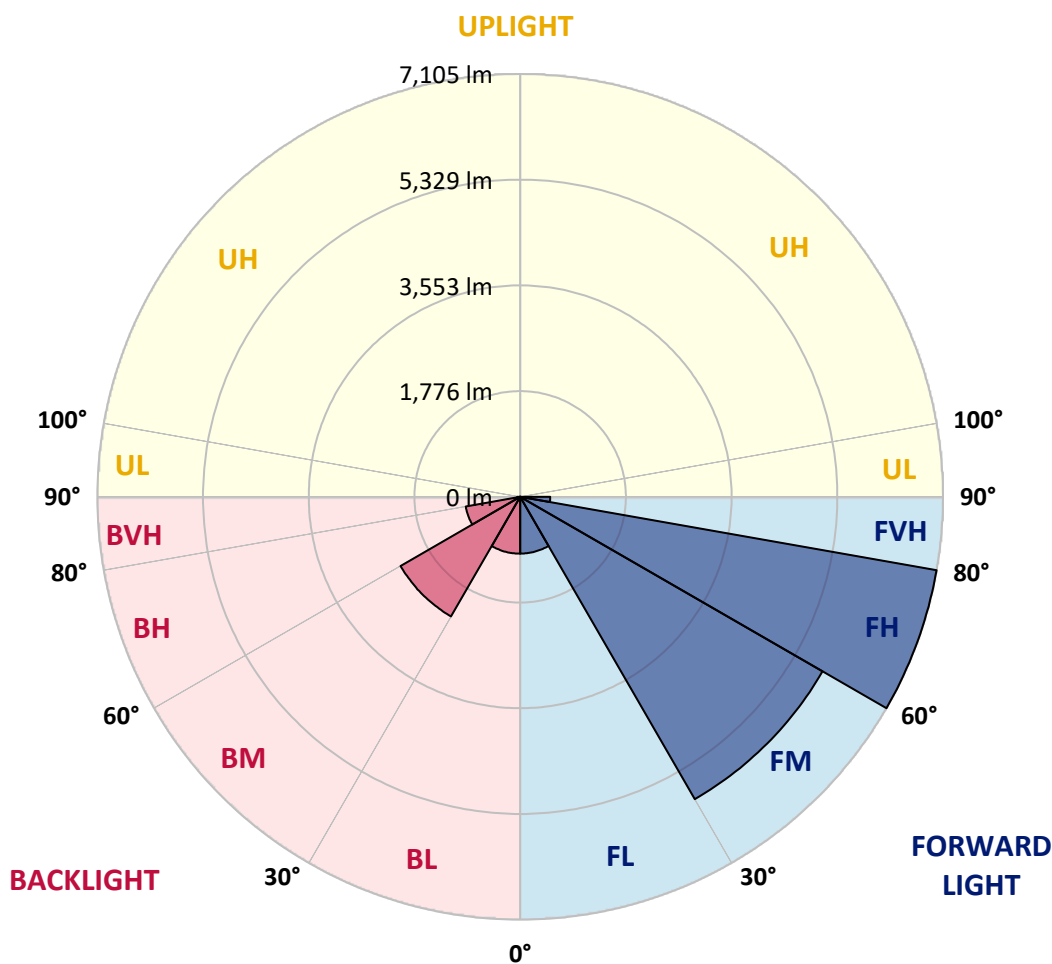
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	953.7	5.1			
FM	(30°-60°)	5866.4	31.4			
FH	(60°-80°)	7105.3	38.0			G3/7500
FVH	(80°-90°)	505.1	2.7			G4/750
BL	(0°-30°)	955.5	5.1	B2/1000		
BM	(30°-60°)	2321.3	12.4	B2/2500		
BH	(60°-80°)	929.4	5.0	B2/1000		G2/1000
BVH	(80°-90°)	51.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5
2.5°	2117.3	2137.4	2135.4	2131.4	2133.4	2135.4	2125.3	2119.3	2127.3	2129.4	2139.4
5°	2115.3	2131.4	2129.4	2129.4	2135.4	2133.4	2117.3	2105.2	2119.3	2129.4	2139.4
7.5°	2113.2	2127.3	2127.3	2121.3	2125.3	2125.3	2117.3	2125.3	2125.3	2141.4	2153.5
10°	2111.2	2123.3	2123.3	2125.3	2131.4	2133.4	2133.4	2139.4	2161.6	2167.6	2191.8
12.5°	2087.1	2097.1	2105.2	2117.3	2129.4	2133.4	2143.5	2161.6	2189.8	2203.9	2232.1
15°	2066.9	2081.0	2095.1	2107.2	2125.3	2129.4	2151.5	2181.7	2212.0	2242.2	2284.5
17.5°	2075.0	2093.1	2109.2	2119.3	2133.4	2137.4	2159.6	2199.9	2248.2	2292.5	2351.0
20°	2093.1	2113.2	2129.4	2141.4	2159.6	2163.6	2181.7	2220.0	2282.5	2351.0	2417.4
22.5°	2137.4	2151.5	2169.7	2175.7	2195.8	2199.9	2212.0	2250.2	2330.8	2417.4	2502.0
25°	2177.7	2193.8	2207.9	2214.0	2236.1	2240.2	2262.3	2294.6	2389.2	2487.9	2610.8
27.5°	2230.1	2246.2	2264.3	2270.4	2308.7	2312.7	2322.8	2371.1	2465.8	2580.6	2733.7
30°	2330.8	2340.9	2361.0	2385.2	2423.5	2427.5	2449.7	2500.0	2568.5	2709.5	2913.0
32.5°	2483.9	2498.0	2490.0	2522.2	2578.6	2578.6	2655.2	2739.8	2824.4	2923.1	3193.0
35°	2778.0	2770.0	2761.9	2733.7	2768.0	2780.1	2886.8	3029.9	3265.6	3543.6	3809.5
37.5°	3142.7	3140.7	3098.3	3033.9	3031.9	3035.9	3132.6	3374.3	3749.0	4367.5	4653.6
40°	3702.7	3718.8	3569.8	3436.8	3362.3	3346.1	3422.7	3726.9	4230.5	5054.5	5249.9
42.5°	4262.7	4228.5	4107.6	3892.1	3767.2	3757.1	3771.2	4037.1	4697.9	5610.5	5681.0
45°	4758.3	4784.5	4595.1	4464.2	4234.5	4238.6	4176.1	4419.9	5161.2	6003.3	6015.4
47.5°	5264.0	5284.1	5048.4	4899.3	4679.8	4679.8	4581.0	4774.4	5574.2	6378.0	6353.8
50°	5803.9	5850.2	5554.1	5328.4	5127.0	5118.9	5088.7	5209.6	5981.1	6694.3	6597.6
52.5°	6533.1	6374.0	6094.0	5787.7	5588.3	5564.1	5535.9	5622.6	6448.5	6952.1	6754.7
55°	7286.6	7071.0	6784.9	6374.0	5997.3	6031.5	5961.0	6059.7	6877.6	7260.4	6960.2
57.5°	7743.9	7824.4	7669.3	7316.8	6696.3	6690.3	6424.3	6476.7	7262.4	7520.2	7177.8
60°	8225.3	8338.1	8442.9	8233.4	7939.3	7806.3	7123.4	6919.9	7695.5	7709.6	7153.6
62.5°	8477.1	8455.0	8910.3	8934.4	9162.1	9178.2	8511.4	7494.1	7951.4	7868.8	7238.2
65°	8027.9	8040.0	8789.4	9180.2	9963.9	10010.2	9766.4	8503.3	8166.9	7943.3	7141.5
67.5°	7266.4	7334.9	7897.0	8863.9	10534.0	10525.9	9998.1	9381.7	8223.3	7927.2	7000.5
70°	5942.9	6015.4	6591.5	7995.7	10409.1	10342.6	9899.4	9452.2	8175.0	7782.1	6297.4
72.5°	4558.9	4548.8	5145.1	6386.1	9490.5	9554.9	9393.8	8954.6	7943.3	7161.7	5159.2
75°	3213.2	3162.8	3692.6	4840.9	7826.5	8064.2	8614.1	8493.3	7067.0	5894.5	3448.9
77.5°	2109.2	2185.8	2608.8	3579.8	6154.4	6353.8	7113.3	6873.6	5229.7	3761.1	1245.0
80°	1339.7	1408.2	1750.6	2556.4	4474.3	4564.9	5185.4	4371.5	2794.2	1241.0	173.2
82.5°	813.9	823.9	1128.1	1728.5	3086.3	3086.3	3265.6	2443.6	1093.9	161.2	112.8
85°	433.1	457.3	608.4	932.7	1555.2	1672.1	1480.7	932.7	211.5	88.6	68.5
87.5°	137.0	139.0	199.4	360.6	334.4	344.5	114.8	48.3	24.2	16.1	14.1
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°	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5	2147.5
2.5°	2143.5	2145.5	2157.6	2163.6	2165.6	2159.6	2173.7	2193.8	2187.8	2209.9	2201.9
5°	2143.5	2153.5	2169.7	2167.6	2183.8	2191.8	2207.9	2228.1	2222.0	2254.3	2242.2
7.5°	2159.6	2175.7	2187.8	2212.0	2224.0	2220.0	2256.3	2272.4	2264.3	2288.5	2276.4
10°	2199.9	2218.0	2234.1	2260.3	2278.4	2270.4	2290.5	2300.6	2286.5	2310.7	2304.6
12.5°	2246.2	2266.3	2298.6	2316.7	2330.8	2316.7	2316.7	2310.7	2290.5	2312.7	2298.6
15°	2298.6	2324.8	2369.1	2389.2	2385.2	2361.0	2338.9	2296.6	2242.2	2252.2	2232.1
17.5°	2369.1	2401.3	2451.7	2463.8	2447.7	2389.2	2330.8	2254.3	2157.6	2133.4	2117.3
20°	2445.6	2481.9	2552.4	2546.4	2510.1	2407.4	2314.7	2195.8	2044.7	1976.3	1944.0
22.5°	2550.4	2586.7	2653.1	2616.9	2542.3	2407.4	2250.2	2085.0	1905.7	1805.0	1782.9
25°	2665.2	2715.6	2743.8	2663.2	2534.3	2353.0	2163.6	1946.0	1716.4	1607.6	1585.4
27.5°	2806.2	2840.5	2812.3	2669.3	2494.0	2262.3	2022.6	1760.7	1541.1	1448.4	1416.2
30°	2971.4	2975.5	2864.7	2657.2	2403.3	2133.4	1849.3	1573.3	1404.1	1317.5	1297.4
32.5°	3191.0	3150.7	2911.0	2600.8	2280.4	1956.1	1655.9	1448.4	1307.4	1198.6	1170.4
35°	3763.1	3579.8	3013.7	2536.3	2131.4	1758.7	1488.7	1335.6	1216.8	1093.9	1071.7
37.5°	4504.5	4180.2	3195.0	2469.8	1962.2	1577.4	1377.9	1269.2	1168.4	1031.4	1001.2
40°	5060.5	4685.8	3475.1	2397.3	1807.0	1448.4	1317.5	1243.0	1132.2	1007.3	975.0
42.5°	5485.6	5106.8	3763.1	2316.7	1662.0	1347.7	1275.2	1224.8	1118.1	1001.2	975.0
45°	5779.7	5401.0	4010.9	2222.0	1476.7	1261.1	1243.0	1194.6	1091.9	979.1	952.9
47.5°	6077.8	5608.5	4149.9	2123.3	1321.5	1212.7	1196.6	1142.2	1047.6	940.8	920.6
50°	6337.7	5844.2	4268.8	2022.6	1198.6	1154.3	1144.3	1071.7	981.1	880.4	854.2
52.5°	6412.3	5900.6	4220.4	2016.5	1087.8	1091.9	1071.7	1013.3	928.7	819.9	793.7
55°	6581.5	6057.7	4103.6	1831.2	981.1	995.2	991.1	960.9	882.4	781.6	761.5
57.5°	6654.0	5938.8	3934.4	1361.8	870.3	882.4	916.6	916.6	848.1	757.5	739.3
60°	6643.9	5942.9	3632.2	952.9	761.5	793.7	842.1	842.1	787.7	699.0	676.9
62.5°	6567.4	5789.8	3130.6	727.2	693.0	739.3	795.7	759.5	711.1	612.4	596.3
65°	6440.5	5368.7	2169.7	638.6	654.7	709.1	737.3	693.0	634.6	545.9	535.9
67.5°	5932.8	4663.6	1009.3	584.2	622.5	664.8	689.0	626.5	566.1	485.5	473.4
70°	5050.4	3412.6	435.1	541.9	584.2	614.4	638.6	574.1	509.7	439.2	435.1
72.5°	3672.5	1821.1	362.6	475.4	519.7	552.0	582.2	517.7	455.3	372.7	372.7
75°	1768.8	302.2	312.3	394.8	435.1	499.6	513.7	423.1	352.5	284.0	278.0
77.5°	217.6	195.4	269.9	314.3	348.5	382.8	417.0	366.6	304.2	233.7	221.6
80°	137.0	137.0	213.5	219.6	237.7	274.0	306.2	286.1	239.7	135.0	124.9
82.5°	100.7	108.8	141.0	104.8	124.9	157.1	179.3	203.5	173.2	94.7	88.6
85°	64.5	70.5	66.5	52.4	68.5	104.8	143.0	141.0	116.8	70.5	66.5
87.5°	14.1	14.1	14.1	12.1	14.1	18.1	34.2	66.5	48.3	38.3	36.3
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)