

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: P509060

Luminaire Tested: **VERD-CA2-100-727-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-100-727-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10740 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

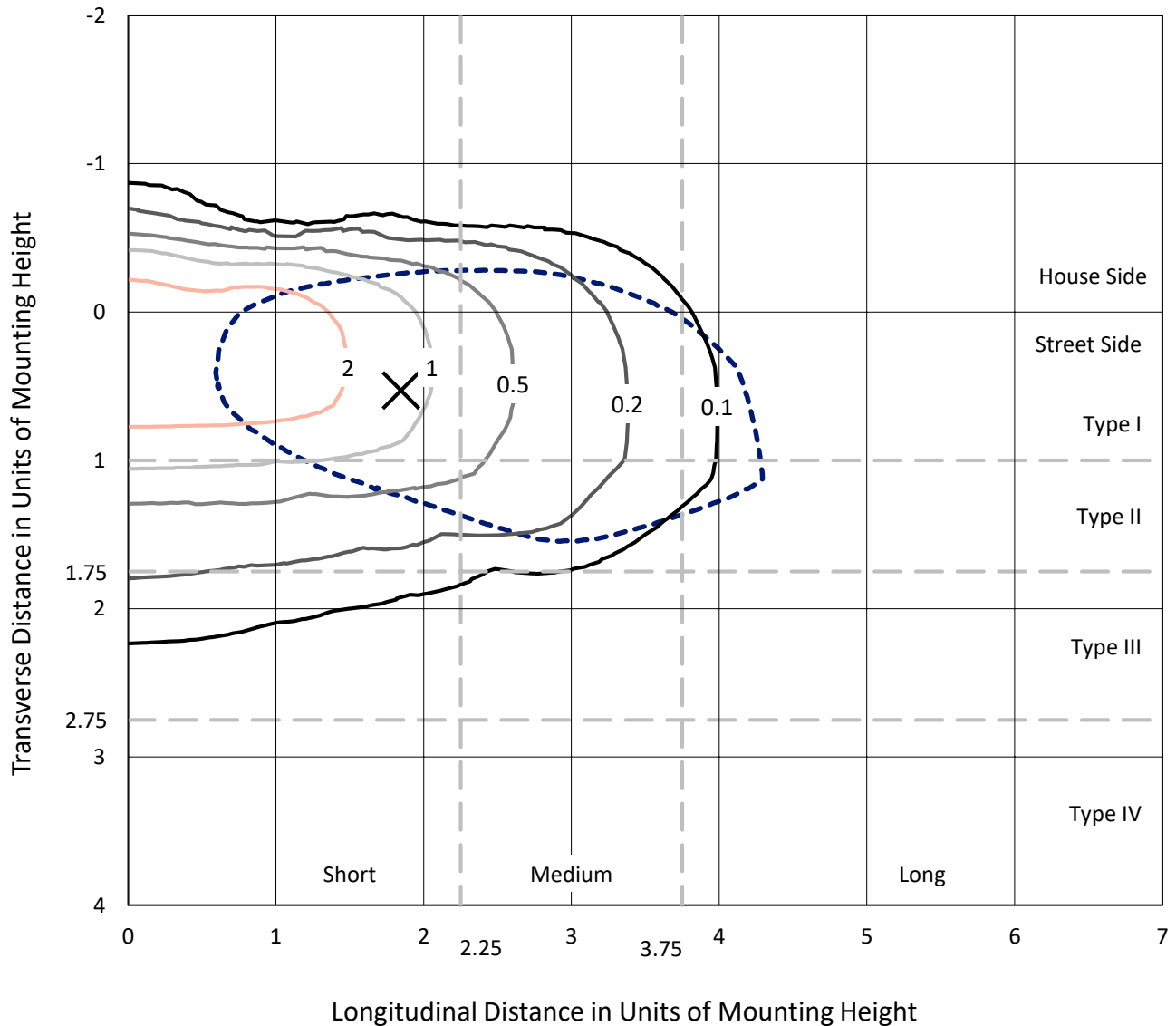
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

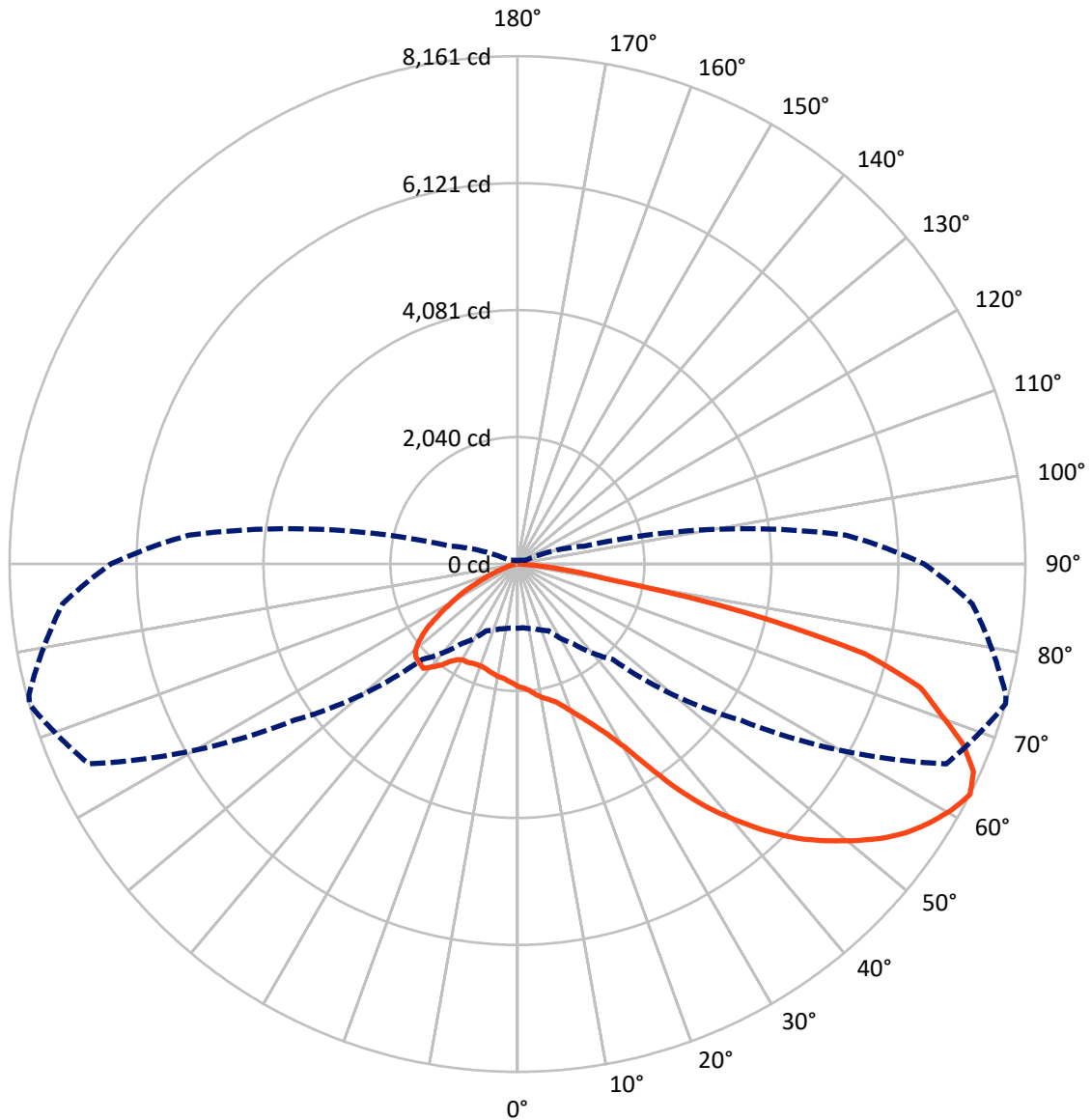
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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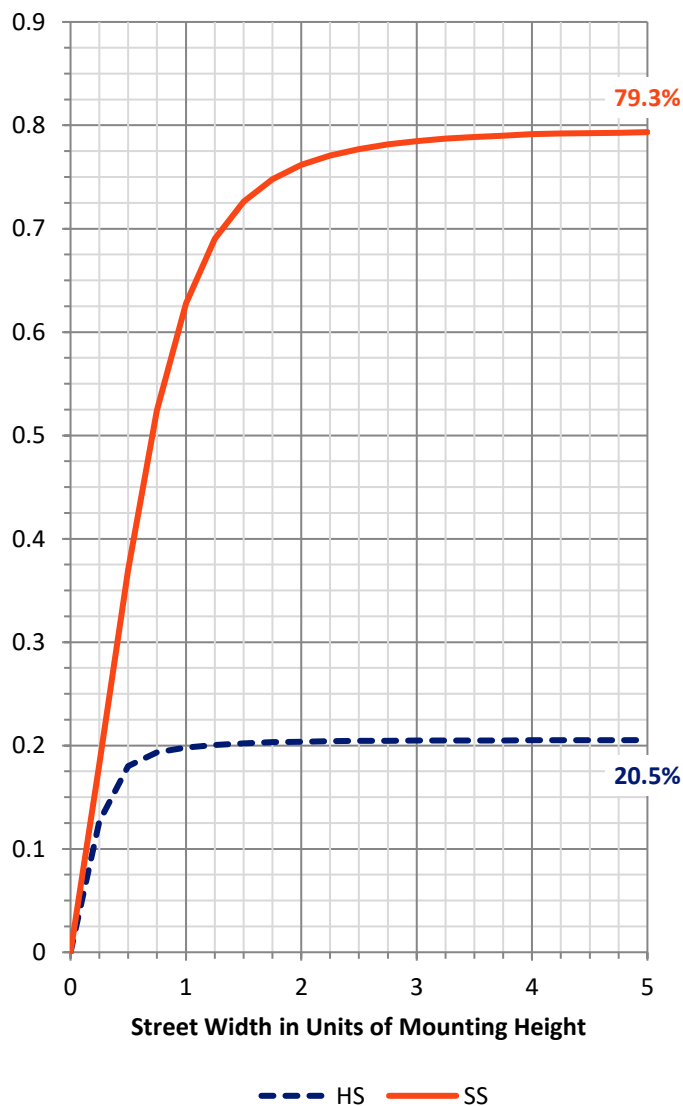
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.2	0.0	2230.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8509.8	0.0	8509.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	10740.0	0.0	10740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.7
10°-20°	566.8	5.3
20°-30°	957.0	8.9
30°-40°	1423.5	13.3
40°-50°	1926.6	17.9
50°-60°	2216.5	20.6
60°-70°	2139.5	19.9
70°-80°	1211.3	11.3
80°-90°	111.1	1.0
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°	10740.0	100.0
0°-180°	10740.0	100.0

Coefficient of Utilization



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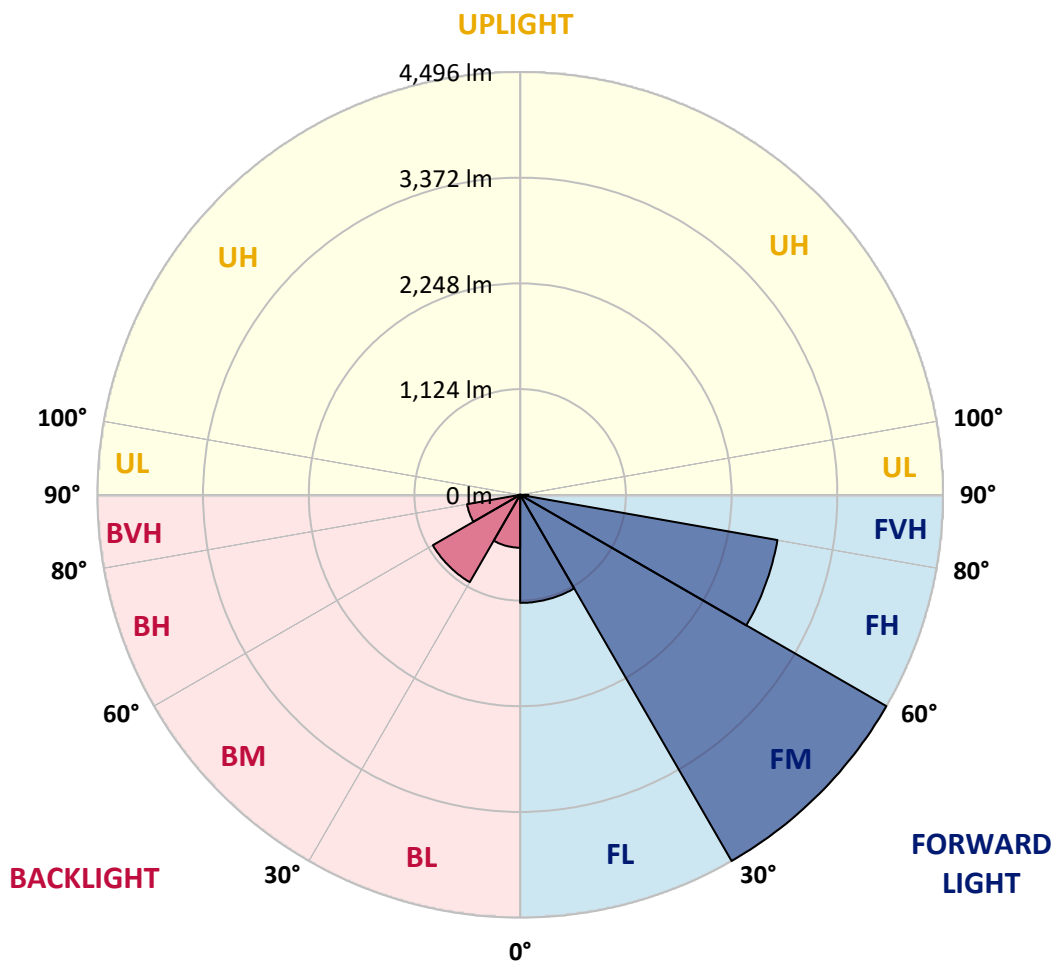
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.2	10.7			
FM (30°-60°)	4495.6	41.9			
FH (60°-80°)	2777.5	25.9			G2/5000
FVH (80°-90°)	87.6	0.8			G1/100
BL (0°-30°)	562.3	5.2	B2/1000		
BM (30°-60°)	1071.0	10.0	B2/2500		
BH (60°-80°)	573.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.6	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6
2.5°	2146.5	2132.4	2120.9	2114.5	2096.6	2081.2	2050.5	2018.5	1996.7	1995.5	1975.0
5°	2236.1	2234.8	2209.2	2204.1	2179.8	2172.1	2141.4	2095.3	2041.5	2035.1	1980.1
7.5°	2353.9	2339.8	2311.6	2300.1	2271.9	2251.5	2210.5	2167.0	2113.2	2106.8	2010.8
10°	2467.8	2460.1	2443.5	2444.7	2405.1	2366.7	2305.2	2231.0	2179.8	2172.1	2054.3
12.5°	2599.6	2575.3	2547.1	2531.8	2492.1	2467.8	2408.9	2311.6	2231.0	2223.3	2105.5
15°	2690.5	2677.7	2652.1	2641.9	2603.5	2563.8	2495.9	2420.4	2298.8	2291.1	2158.0
17.5°	2787.8	2781.4	2751.9	2745.5	2708.4	2661.1	2608.6	2510.0	2403.8	2391.0	2220.7
20°	2853.0	2841.5	2837.7	2836.4	2826.2	2796.7	2730.2	2653.4	2535.6	2512.6	2301.4
22.5°	2940.1	2928.6	2933.7	2938.8	2952.9	2940.1	2896.6	2805.7	2689.2	2668.7	2428.1
25°	2949.0	2941.4	2975.9	3047.6	3075.8	3089.8	3056.6	2986.2	2873.5	2846.6	2579.1
27.5°	2973.4	2961.8	2999.0	3074.5	3201.2	3223.0	3229.4	3196.1	3101.4	3086.0	2783.9
30°	2929.8	2922.2	2979.8	3109.0	3251.1	3374.0	3421.4	3467.4	3423.9	3397.0	3069.4
32.5°	2823.6	2828.7	2904.2	3075.8	3338.2	3527.6	3650.5	3813.0	3891.1	3886.0	3574.9
35°	2668.7	2666.2	2792.9	3034.8	3345.8	3672.2	3901.3	4231.6	4450.4	4435.1	4106.1
37.5°	2536.9	2530.5	2673.9	2931.1	3352.2	3787.4	4195.7	4688.5	4966.3	4950.9	4540.0
40°	2375.6	2385.9	2513.9	2810.8	3298.5	3873.2	4451.7	5132.7	5416.8	5416.8	4989.3
42.5°	2213.1	2222.0	2348.7	2643.1	3220.4	3935.9	4692.4	5575.5	5864.8	5871.2	5297.8
45°	2071.0	2074.8	2190.0	2455.0	3079.6	3946.1	4913.8	6019.7	6284.6	6268.0	5649.8
47.5°	1821.4	1863.6	2044.1	2286.0	2887.6	3901.3	5100.7	6415.2	6645.6	6611.0	5985.1
50°	1451.5	1451.5	1701.1	2124.7	2667.5	3782.3	5247.9	6776.1	6988.6	6956.6	6278.2
52.5°	1333.7	1336.3	1413.1	1898.2	2444.7	3577.5	5332.3	7134.5	7325.2	7303.5	6556.0
55°	1271.0	1274.8	1310.7	1538.5	2242.5	3263.9	5334.9	7412.3	7610.7	7562.0	6790.2
57.5°	1176.3	1169.9	1245.4	1370.8	2005.7	2859.4	5209.5	7627.3	7832.1	7795.0	6982.2
60°	1109.7	1099.5	1150.7	1263.3	1751.0	2440.9	4875.4	7783.5	8021.6	8043.3	7170.4
62.5°	1031.7	1027.8	1076.5	1182.7	1562.8	2167.0	4373.6	7601.7	8161.1	8126.5	7336.8
65°	953.6	945.9	992.0	1075.2	1381.1	1943.0	3868.1	7332.9	8053.5	8084.3	7370.0
67.5°	851.2	849.9	893.4	954.9	1182.7	1692.1	3135.9	6979.7	7720.8	7699.0	7068.0
70°	727.0	727.0	770.5	824.3	988.1	1443.8	2407.6	6374.2	7208.8	7335.5	6550.9
72.5°	587.5	590.1	633.6	695.0	815.3	1176.3	1775.3	5543.5	6764.6	6561.1	5821.3
75°	313.6	281.6	496.6	559.3	657.9	938.2	1214.7	3604.4	5768.8	5628.0	4829.3
77.5°	75.5	79.4	156.2	290.6	350.7	519.7	597.7	1669.1	3719.6	3943.6	3444.4
80°	49.9	55.0	84.5	206.1	234.2	276.5	236.8	727.0	1442.5	1537.2	1999.3
82.5°	25.6	28.2	52.5	81.9	83.2	71.7	89.6	366.1	762.9	826.9	961.3
85°	9.0	14.1	26.9	35.8	33.3	26.9	21.8	90.9	180.5	201.0	208.6
87.5°	0.0	0.0	3.8	3.8	2.6	2.6	3.8	3.8	5.1	3.8	3.8
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°	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6	1968.6
2.5°	1958.3	1944.3	1922.5	1899.5	1875.2	1854.7	1843.2	1849.6	1857.2	1832.9	1824.0
5°	1954.5	1930.2	1889.2	1840.6	1803.5	1766.4	1722.8	1712.6	1702.4	1689.6	1675.5
7.5°	1972.4	1936.6	1853.4	1808.6	1730.5	1661.4	1623.0	1594.8	1569.2	1546.2	1532.1
10°	2005.7	1939.1	1845.7	1754.8	1669.1	1584.6	1501.4	1484.8	1479.6	1446.4	1422.0
12.5°	2027.5	1945.5	1818.8	1708.8	1585.9	1495.0	1411.8	1364.4	1360.6	1345.2	1328.6
15°	2062.0	1971.1	1800.9	1651.2	1501.4	1405.4	1328.6	1267.2	1236.4	1235.2	1222.4
17.5°	2124.7	2000.6	1772.8	1592.3	1433.6	1326.0	1216.0	1192.9	1141.7	1112.3	1104.6
20°	2188.7	2044.1	1765.1	1533.4	1345.2	1212.1	1127.7	1063.7	1022.7	992.0	972.8
22.5°	2271.9	2106.8	1767.6	1498.8	1273.6	1126.4	1016.3	921.6	846.1	808.9	791.0
25°	2392.3	2179.8	1786.8	1446.4	1189.1	1034.2	874.2	748.8	642.5	615.7	602.9
27.5°	2545.9	2282.2	1813.7	1392.6	1111.0	910.1	702.7	561.9	473.6	453.1	440.3
30°	2781.4	2435.8	1817.6	1359.3	1040.6	748.8	526.1	416.0	346.9	325.1	327.7
32.5°	3224.2	2764.7	1868.8	1290.2	915.2	574.7	386.5	303.4	250.9	243.2	256.0
35°	3738.8	3152.6	1967.3	1254.4	771.8	416.0	276.5	222.7	189.4	199.7	204.8
37.5°	4070.3	3494.3	2124.7	1172.4	604.1	305.9	193.3	174.1	167.7	174.1	185.6
40°	4456.8	3772.1	2259.1	1089.3	428.8	209.9	154.9	158.7	151.0	149.8	154.9
42.5°	4770.4	4057.5	2402.5	952.3	298.2	156.2	142.1	144.6	139.5	133.1	133.1
45°	5068.7	4304.5	2401.2	768.0	197.1	138.2	130.6	135.7	134.4	125.4	124.2
47.5°	5329.8	4554.1	2402.5	558.1	149.8	126.7	121.6	126.7	126.7	119.0	117.8
50°	5653.6	4761.5	2364.1	357.1	137.0	117.8	116.5	115.2	120.3	110.1	107.5
52.5°	5852.0	4912.5	2191.3	240.6	126.7	111.4	108.8	106.2	108.8	99.8	99.8
55°	6069.6	5100.7	1966.0	190.7	120.3	103.7	102.4	99.8	99.8	89.6	90.9
57.5°	6306.4	5254.3	1662.7	167.7	115.2	98.6	96.0	92.2	87.0	79.4	78.1
60°	6477.9	5286.3	1360.6	152.3	111.4	96.0	85.8	80.6	71.7	66.6	65.3
62.5°	6535.5	5302.9	1103.3	137.0	105.0	88.3	76.8	67.8	57.6	53.8	53.8
65°	6488.2	5110.9	826.9	124.2	97.3	81.9	67.8	55.0	44.8	41.0	39.7
67.5°	6183.5	4757.6	601.6	111.4	85.8	74.2	58.9	44.8	35.8	32.0	32.0
70°	5629.3	4341.6	407.0	93.4	74.2	65.3	55.0	35.8	29.4	25.6	24.3
72.5°	5025.1	3681.2	259.8	75.5	57.6	51.2	39.7	30.7	24.3	19.2	19.2
75°	3974.3	2891.4	180.5	55.0	41.0	38.4	30.7	25.6	20.5	15.4	15.4
77.5°	2766.0	1879.0	142.1	42.2	28.2	25.6	23.0	19.2	16.6	12.8	11.5
80°	1603.8	1130.2	85.8	28.2	19.2	16.6	15.4	15.4	12.8	9.0	9.0
82.5°	796.1	471.0	37.1	17.9	12.8	11.5	10.2	9.0	9.0	6.4	6.4
85°	156.2	80.6	14.1	9.0	6.4	6.4	5.1	5.1	3.8	2.6	2.6
87.5°	5.1	3.8	3.8	3.8	2.6	2.6	1.3	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)