

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: P509428

Luminaire Tested: **VERD-CA2-90-760-U-T2-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509428
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-CA2-90-760-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11744 lumens
Efficiency: N/A
Efficacy: 124.7 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

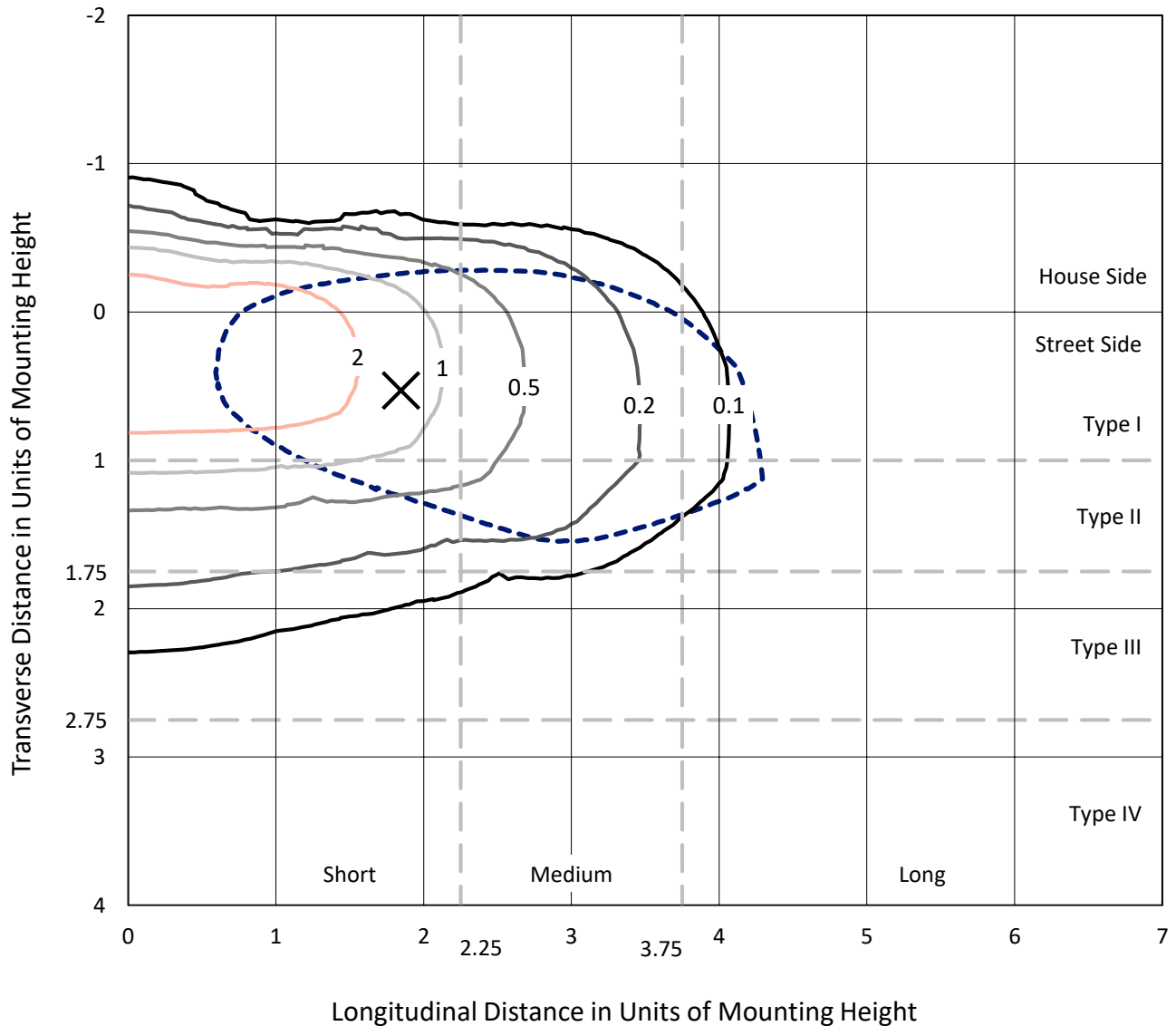
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

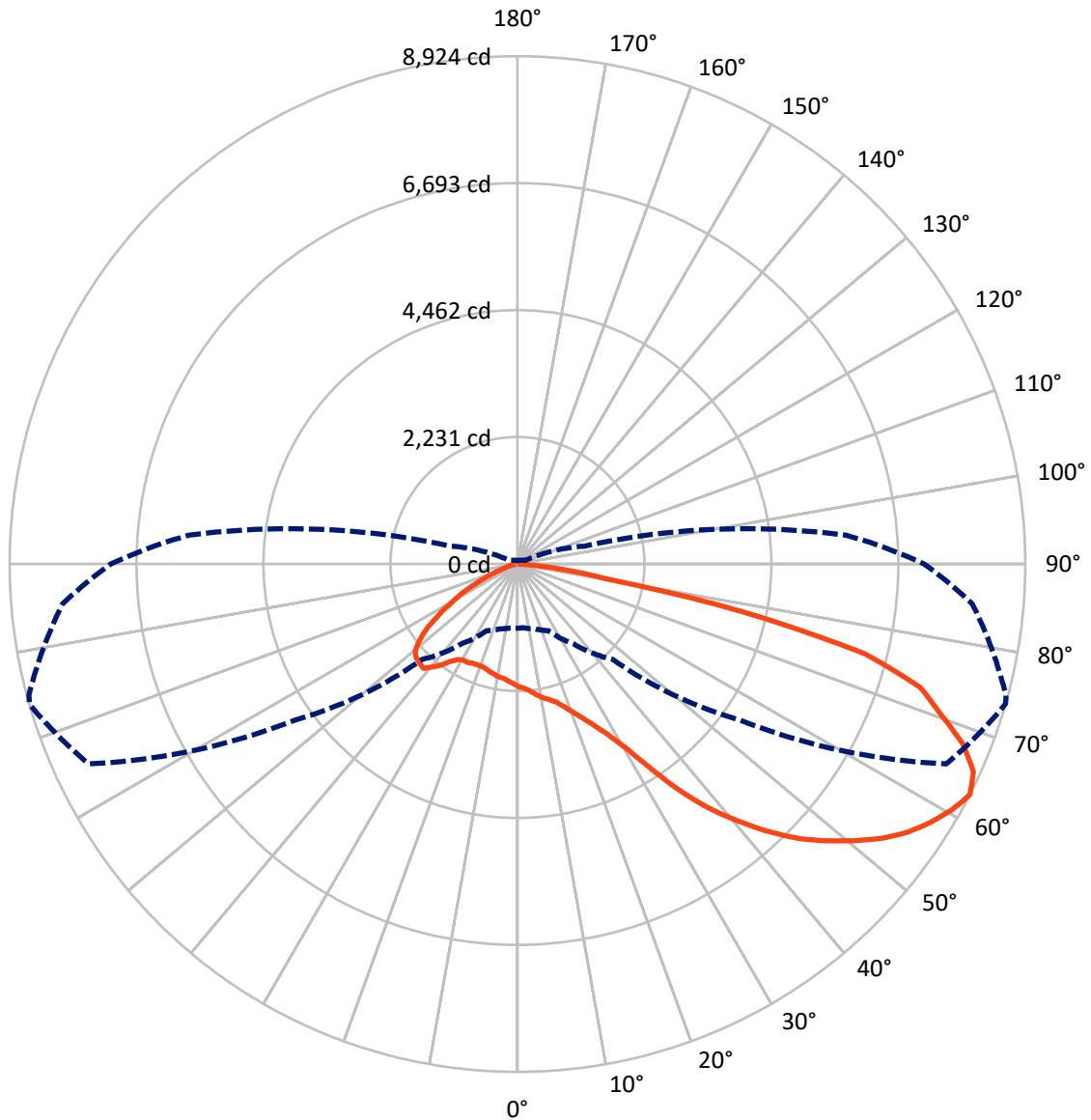
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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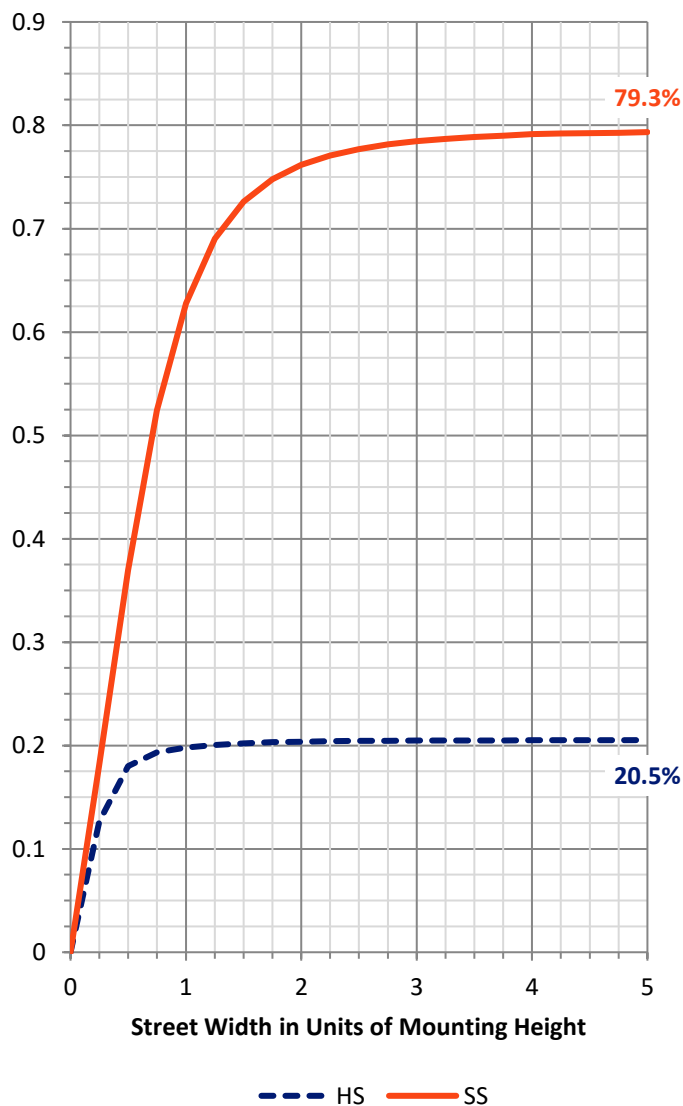
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.7	0.0	2438.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9305.3	0.0	9305.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	11744.0	0.0	11744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	1.7
10°-20°	619.8	5.3
20°-30°	1046.5	8.9
30°-40°	1556.5	13.3
40°-50°	2106.7	17.9
50°-60°	2423.7	20.6
60°-70°	2339.5	19.9
70°-80°	1324.6	11.3
80°-90°	121.5	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°	11744.0	100.0
0°-180°	11744.0	100.0

Coefficient of Utilization



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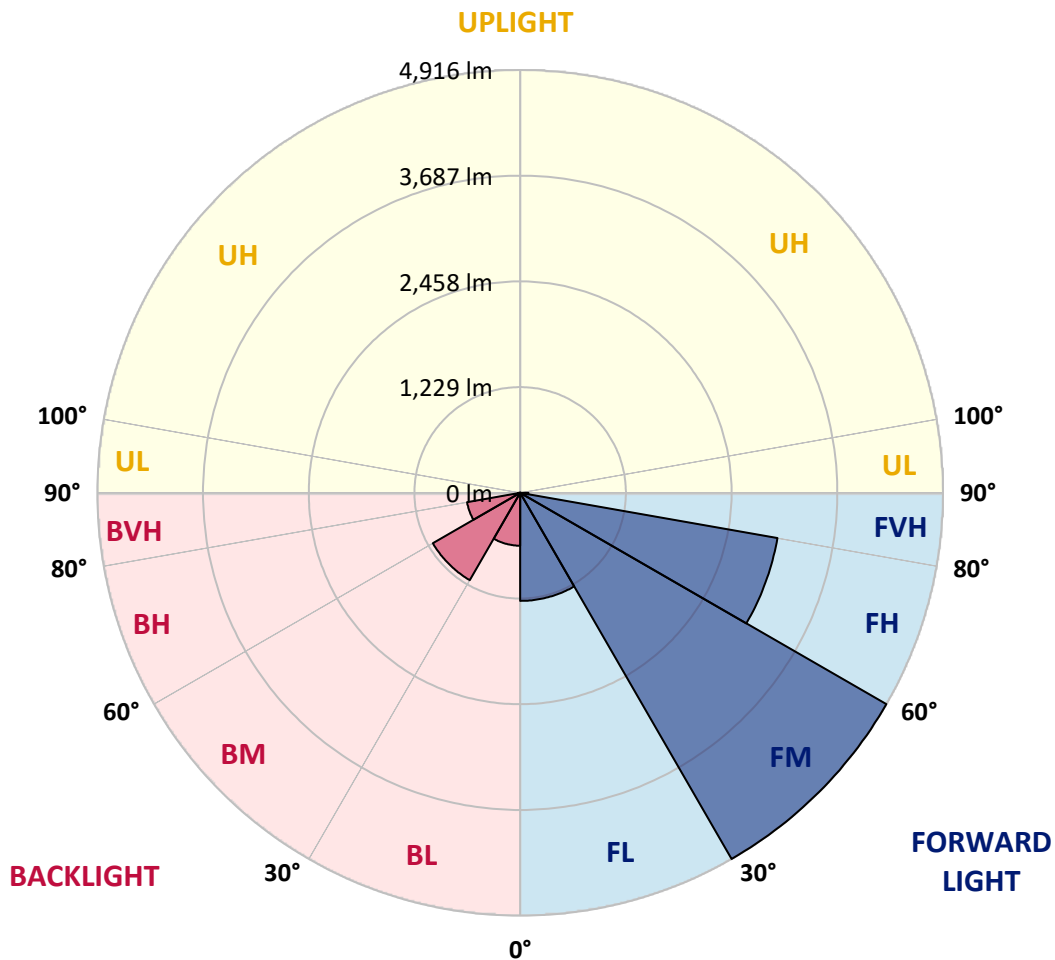
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.6	10.7			
FM (30°-60°)	4915.8	41.9			
FH (60°-80°)	3037.1	25.9			G2/5000
FVH (80°-90°)	95.7	0.8			G1/100
BL (0°-30°)	614.9	5.2	B2/1000		
BM (30°-60°)	1171.1	10.0	B2/2500		
BH (60°-80°)	626.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	25.8	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°	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6
2.5°	2347.2	2331.8	2319.2	2312.2	2292.6	2275.8	2242.2	2207.2	2183.4	2182.0	2159.6
5°	2445.1	2443.7	2415.7	2410.1	2383.6	2375.2	2341.6	2291.2	2232.4	2225.4	2165.2
7.5°	2573.9	2558.5	2527.7	2515.1	2484.3	2461.9	2417.1	2369.6	2310.8	2303.8	2198.8
10°	2698.5	2690.1	2671.9	2673.3	2629.9	2587.9	2520.7	2439.5	2383.6	2375.2	2246.4
12.5°	2842.6	2816.0	2785.2	2768.5	2725.1	2698.5	2634.1	2527.7	2439.5	2431.1	2302.4
15°	2942.0	2928.0	2900.0	2888.8	2846.8	2803.4	2729.3	2646.7	2513.7	2505.3	2359.8
17.5°	3048.4	3041.4	3009.2	3002.2	2961.6	2909.8	2852.4	2744.7	2628.5	2614.5	2428.3
20°	3119.8	3107.2	3103.0	3101.6	3090.4	3058.2	2985.4	2901.4	2772.6	2747.5	2516.5
22.5°	3214.9	3202.3	3207.9	3213.5	3228.9	3214.9	3167.3	3068.0	2940.6	2918.2	2655.1
25°	3224.7	3216.3	3254.1	3332.5	3363.3	3378.7	3342.3	3265.3	3142.1	3112.8	2820.2
27.5°	3251.3	3238.7	3279.3	3361.9	3500.5	3524.2	3531.2	3494.9	3391.3	3374.5	3044.2
30°	3203.7	3195.3	3258.3	3399.7	3555.0	3689.4	3741.2	3791.6	3744.0	3714.6	3356.3
32.5°	3087.6	3093.2	3175.7	3363.3	3650.2	3857.4	3991.7	4169.5	4254.8	4249.2	3909.1
35°	2918.2	2915.4	3054.0	3318.5	3658.6	4015.5	4266.0	4627.1	4866.5	4849.7	4490.0
37.5°	2774.0	2767.1	2923.8	3205.1	3665.6	4141.5	4588.0	5126.8	5430.5	5413.7	4964.5
40°	2597.7	2608.9	2748.9	3073.6	3606.8	4235.3	4867.9	5612.5	5923.2	5923.2	5455.7
42.5°	2419.9	2429.7	2568.3	2890.2	3521.4	4303.8	5131.0	6096.7	6413.1	6420.1	5793.0
45°	2264.6	2268.8	2394.8	2684.5	3367.5	4315.0	5373.1	6582.4	6872.1	6853.9	6177.9
47.5°	1991.7	2037.8	2235.2	2499.7	3157.5	4266.0	5577.5	7014.9	7266.8	7229.0	6544.6
50°	1587.2	1587.2	1860.1	2323.4	2916.8	4135.9	5738.4	7409.6	7641.9	7606.9	6865.1
52.5°	1458.4	1461.2	1545.2	2075.6	2673.3	3911.9	5830.8	7801.5	8010.0	7986.2	7168.9
55°	1389.8	1394.0	1433.2	1682.3	2452.1	3569.0	5833.6	8105.2	8322.1	8269.0	7425.0
57.5°	1286.3	1279.3	1361.8	1499.0	2193.2	3126.8	5696.5	8340.3	8564.3	8523.7	7634.9
60°	1213.5	1202.3	1258.3	1381.4	1914.7	2669.1	5331.2	8511.1	8771.4	8795.2	7840.7
62.5°	1128.1	1123.9	1177.1	1293.2	1708.9	2369.6	4782.5	8312.3	8924.0	8886.2	8022.6
65°	1042.7	1034.3	1084.7	1175.7	1510.2	2124.6	4229.7	8018.4	8806.4	8840.0	8059.0
67.5°	930.7	929.3	976.9	1044.1	1293.2	1850.3	3429.1	7632.1	8442.5	8418.7	7728.7
70°	795.0	795.0	842.6	901.4	1080.5	1578.8	2632.7	6970.1	7882.7	8021.2	7163.3
72.5°	642.4	645.2	692.8	760.0	891.6	1286.3	1941.3	6061.8	7397.0	7174.5	6365.5
75°	342.9	307.9	543.1	611.6	719.4	1025.9	1328.2	3941.3	6308.1	6154.1	5280.8
77.5°	82.6	86.8	170.8	317.7	383.5	568.2	653.6	1825.1	4067.3	4312.2	3766.4
80°	54.6	60.2	92.4	225.3	256.1	302.3	258.9	795.0	1577.4	1680.9	2186.2
82.5°	28.0	30.8	57.4	89.6	91.0	78.4	98.0	400.3	834.2	904.2	1051.1
85°	9.8	15.4	29.4	39.2	36.4	29.4	23.8	99.4	197.3	219.7	228.1
87.5°	0.0	0.0	4.2	4.2	2.8	2.8	4.2	4.2	5.6	4.2	4.2
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°	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6	2152.6
2.5°	2141.4	2126.0	2102.2	2077.0	2050.4	2028.1	2015.5	2022.5	2030.8	2004.3	1994.5
5°	2137.2	2110.6	2065.8	2012.7	1972.1	1931.5	1883.9	1872.7	1861.5	1847.5	1832.1
7.5°	2156.8	2117.6	2026.7	1977.7	1892.3	1816.7	1774.7	1743.9	1715.9	1690.7	1675.3
10°	2193.2	2120.4	2018.3	1918.9	1825.1	1732.7	1641.8	1623.6	1618.0	1581.6	1555.0
12.5°	2217.0	2127.4	1988.9	1868.5	1734.1	1634.8	1543.8	1492.0	1487.8	1471.0	1452.8
15°	2254.8	2155.4	1969.3	1805.5	1641.8	1536.8	1452.8	1385.6	1352.0	1350.6	1336.6
17.5°	2323.4	2187.6	1938.5	1741.1	1567.6	1450.0	1329.6	1304.4	1248.5	1216.3	1207.9
20°	2393.4	2235.2	1930.1	1676.7	1471.0	1325.4	1233.1	1163.1	1118.3	1084.7	1063.7
22.5°	2484.3	2303.8	1932.9	1639.0	1392.6	1231.7	1111.3	1007.7	925.1	884.6	865.0
25°	2615.9	2383.6	1953.9	1581.6	1300.2	1130.9	955.9	818.8	702.6	673.2	659.2
27.5°	2783.8	2495.5	1983.3	1522.8	1214.9	995.1	768.4	614.4	517.9	495.5	481.5
30°	3041.4	2663.5	1987.5	1486.4	1137.9	818.8	575.2	454.9	379.3	355.5	358.3
32.5°	3525.6	3023.2	2043.4	1410.8	1000.7	628.4	422.7	331.7	274.3	265.9	279.9
35°	4088.3	3447.3	2151.2	1371.6	844.0	454.9	302.3	243.5	207.1	218.3	223.9
37.5°	4450.8	3821.0	2323.4	1282.1	660.6	334.5	211.3	190.3	183.4	190.3	202.9
40°	4873.5	4124.7	2470.3	1191.1	468.9	229.5	169.4	173.6	165.2	163.8	169.4
42.5°	5216.4	4436.8	2627.1	1041.3	326.1	170.8	155.4	158.2	152.6	145.6	145.6
45°	5542.5	4706.9	2625.7	839.8	215.5	151.2	142.8	148.4	147.0	137.2	135.8
47.5°	5828.0	4979.9	2627.1	610.2	163.8	138.6	133.0	138.6	138.6	130.2	128.8
50°	6182.1	5206.6	2585.1	390.5	149.8	128.8	127.4	126.0	131.6	120.4	117.6
52.5°	6399.1	5371.7	2396.2	263.1	138.6	121.8	119.0	116.2	119.0	109.2	109.2
55°	6637.0	5577.5	2149.8	208.5	131.6	113.4	112.0	109.2	109.2	98.0	99.4
57.5°	6895.9	5745.4	1818.1	183.4	126.0	107.8	105.0	100.8	95.2	86.8	85.4
60°	7083.5	5780.4	1487.8	166.6	121.8	105.0	93.8	88.2	78.4	72.8	71.4
62.5°	7146.5	5798.6	1206.5	149.8	114.8	96.6	84.0	74.2	63.0	58.8	58.8
65°	7094.7	5588.7	904.2	135.8	106.4	89.6	74.2	60.2	49.0	44.8	43.4
67.5°	6761.6	5202.4	657.8	121.8	93.8	81.2	64.4	49.0	39.2	35.0	35.0
70°	6155.5	4747.5	445.1	102.2	81.2	71.4	60.2	39.2	32.2	28.0	26.6
72.5°	5494.9	4025.3	284.1	82.6	63.0	56.0	43.4	33.6	26.6	21.0	21.0
75°	4345.8	3161.7	197.3	60.2	44.8	42.0	33.6	28.0	22.4	16.8	16.8
77.5°	3024.6	2054.6	155.4	46.2	30.8	28.0	25.2	21.0	18.2	14.0	12.6
80°	1753.7	1235.9	93.8	30.8	21.0	18.2	16.8	16.8	14.0	9.8	9.8
82.5°	870.6	515.1	40.6	19.6	14.0	12.6	11.2	9.8	9.8	7.0	7.0
85°	170.8	88.2	15.4	9.8	7.0	7.0	5.6	5.6	4.2	2.8	2.8
87.5°	5.6	4.2	4.2	4.2	2.8	2.8	1.4	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)