

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: P509272

Luminaire Tested: **VERD-CA2-60-740-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-740-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8361 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

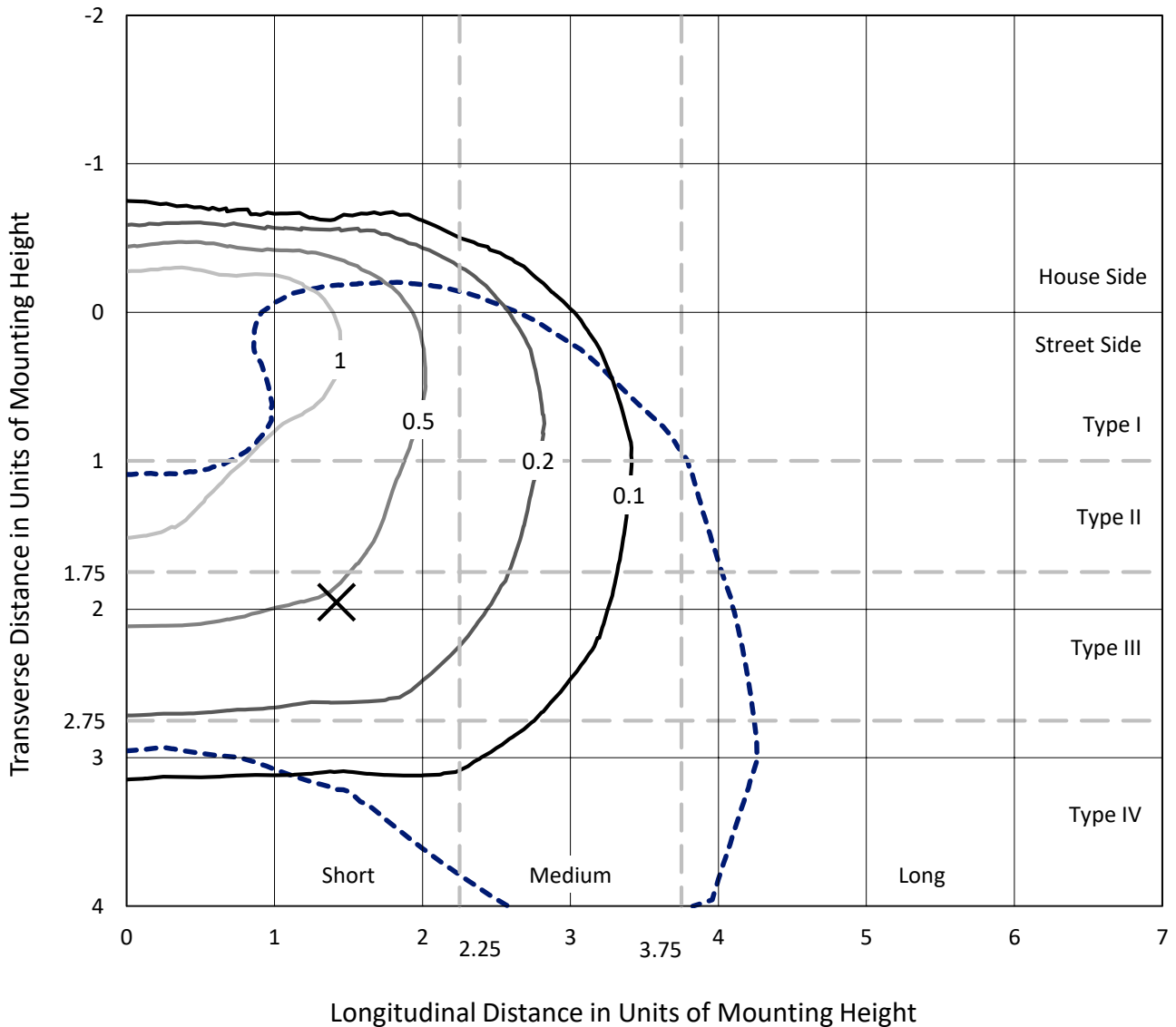
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

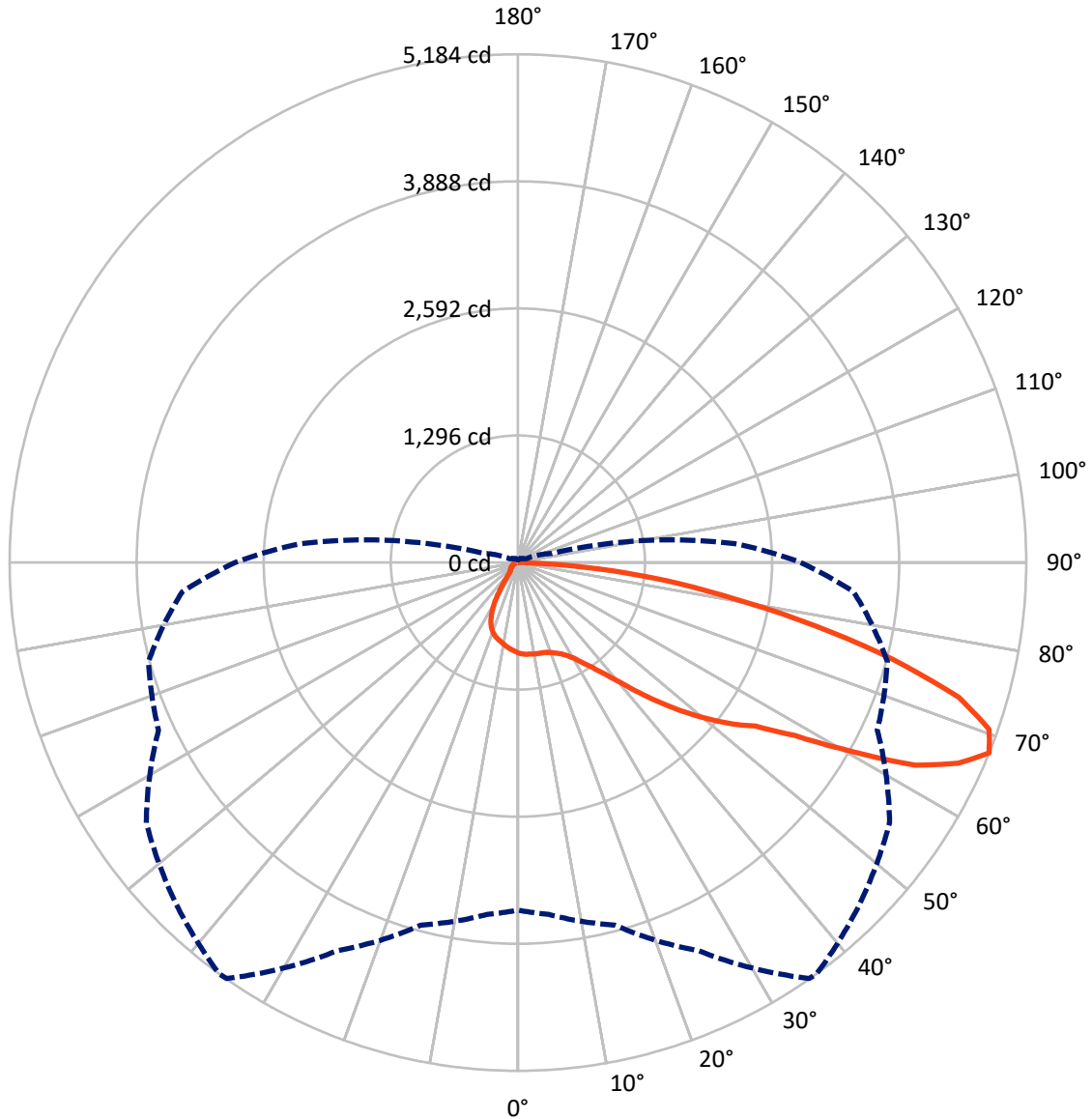
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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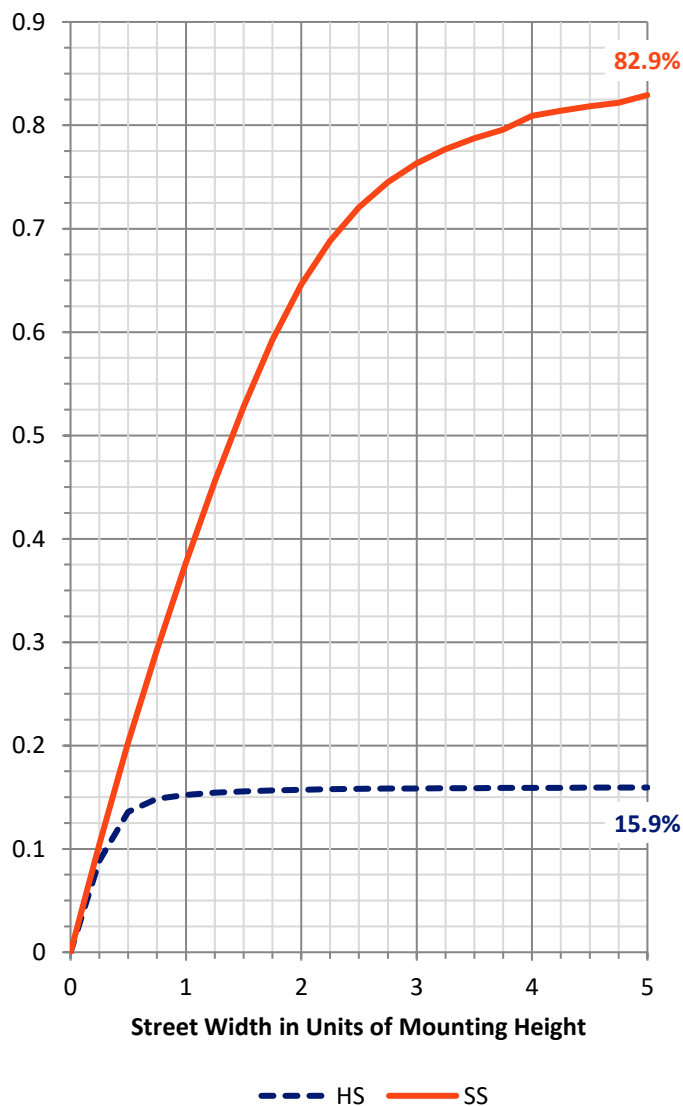
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1348.3	0.0	1348.3
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	7012.6	0.0	7012.6
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	8361.0	0.0	8361.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	1.0
10°-20°	258.3	3.1
20°-30°	427.3	5.1
30°-40°	677.8	8.1
40°-50°	1169.8	14.0
50°-60°	1734.0	20.7
60°-70°	2241.8	26.8
70°-80°	1513.3	18.1
80°-90°	251.5	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°	8361.0	100.0
0°-180°	8361.0	100.0

**Coefficient of Utilization**



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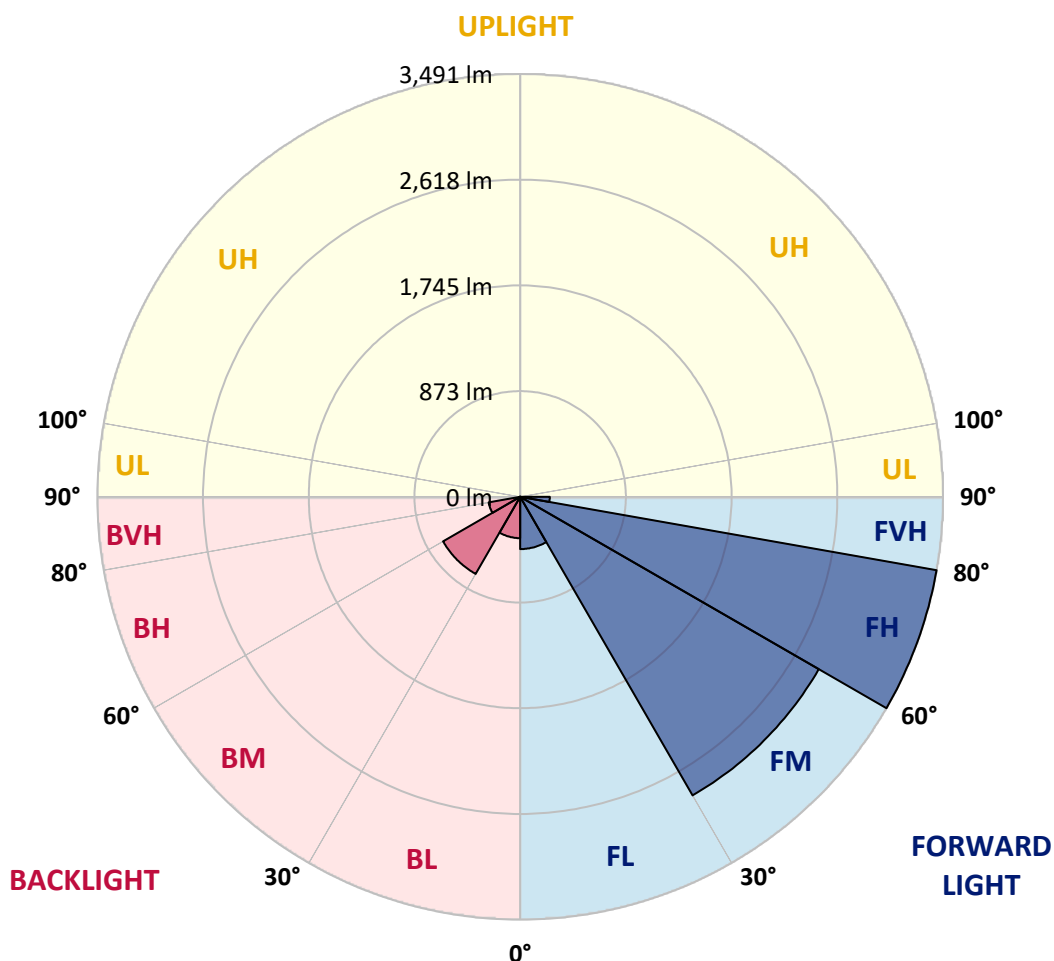
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.6	5.2			
FM (30°-60°)	2845.9	34.0			
FH (60°-80°)	3490.7	41.8			G2/5000
FVH (80°-90°)	244.4	2.9			G3/500
BL (0°-30°)	341.2	4.1	B1/500		
BM (30°-60°)	735.6	8.8	B1/1000		
BH (60°-80°)	264.4	3.2	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	928.0	937.0	936.0	935.0	935.0	934.0	928.0	922.0	925.0	924.0	923.0
5°	932.0	941.0	940.0	939.0	939.0	940.0	931.0	924.0	926.0	928.0	927.0
7.5°	934.0	942.0	940.0	939.0	938.0	941.0	934.0	935.0	937.0	937.0	937.0
10°	937.0	943.0	943.0	944.0	945.0	948.0	945.0	948.0	956.0	954.0	959.0
12.5°	929.0	936.0	939.0	944.0	949.0	951.0	954.0	962.0	972.0	977.0	982.0
15°	926.0	933.0	938.0	944.0	952.0	954.0	962.0	976.0	988.0	998.0	1009.1
17.5°	936.0	944.0	951.0	955.0	959.0	962.0	970.0	988.0	1009.1	1027.1	1043.1
20°	955.0	963.0	971.0	975.0	978.0	980.0	986.0	1003.0	1030.1	1058.1	1081.1
22.5°	977.0	985.0	994.0	997.0	1004.0	1004.0	1005.0	1022.1	1055.1	1093.1	1121.1
25°	1001.0	1006.0	1014.1	1019.1	1029.1	1031.1	1034.1	1049.1	1090.1	1133.1	1177.1
27.5°	1029.1	1039.1	1047.1	1053.1	1073.1	1074.1	1072.1	1091.1	1131.1	1184.1	1246.1
30°	1080.1	1091.1	1099.1	1109.1	1135.1	1134.1	1147.1	1167.1	1190.1	1248.1	1331.1
32.5°	1161.1	1162.1	1166.1	1179.1	1216.1	1220.1	1245.1	1281.1	1327.1	1364.1	1452.1
35°	1309.1	1304.1	1292.1	1290.1	1315.1	1317.1	1366.1	1442.1	1542.1	1665.1	1801.1
37.5°	1482.1	1495.1	1481.1	1438.1	1442.1	1443.1	1501.1	1598.1	1784.1	2092.1	2221.1
40°	1786.1	1793.1	1706.1	1638.1	1614.1	1603.1	1633.1	1780.1	2018.1	2419.1	2510.1
42.5°	2054.1	2054.1	1973.1	1868.1	1807.1	1815.1	1806.1	1952.1	2258.1	2703.1	2736.1
45°	2322.1	2313.1	2239.1	2151.1	2044.1	2037.1	2014.1	2126.1	2479.1	2907.1	2908.1
47.5°	2572.1	2593.1	2482.1	2385.1	2276.1	2271.1	2230.1	2317.1	2691.1	3086.2	3059.2
50°	2835.1	2864.1	2725.1	2616.1	2498.1	2505.1	2471.1	2532.1	2902.1	3253.2	3204.2
52.5°	3209.2	3155.2	2989.1	2838.1	2716.1	2736.1	2701.1	2737.1	3121.2	3386.2	3284.2
55°	3610.2	3514.2	3376.2	3123.2	2946.1	2944.1	2918.1	2961.1	3342.2	3538.2	3375.2
57.5°	3825.2	3854.2	3822.2	3617.2	3331.2	3326.2	3170.2	3175.2	3545.2	3668.2	3502.2
60°	4070.2	4106.2	4176.2	4048.2	3905.2	3909.2	3520.2	3404.2	3759.2	3772.2	3512.2
62.5°	4200.2	4204.2	4365.2	4410.2	4526.2	4552.2	4257.2	3684.2	3901.2	3852.2	3529.2
65°	3970.2	3977.2	4287.2	4514.2	4901.2	4936.2	4809.2	4226.2	4007.2	3894.2	3513.2
67.5°	3545.2	3602.2	3828.2	4370.2	5179.3	5184.3	4928.2	4627.2	4044.2	3900.2	3436.2
70°	2971.1	2951.1	3237.2	3888.2	5136.3	5099.3	4876.2	4673.2	4017.2	3818.2	3085.2
72.5°	2203.1	2173.1	2468.1	3126.2	4633.2	4703.2	4643.2	4404.2	3915.2	3512.2	2504.1
75°	1508.1	1543.1	1808.1	2357.1	3848.2	3954.2	4219.2	4196.2	3483.2	2911.1	1714.1
77.5°	1032.1	1047.1	1274.1	1754.1	3050.2	3091.2	3530.2	3390.2	2561.1	1789.1	572.0
80°	672.0	667.0	871.0	1249.1	2236.1	2231.1	2521.1	2145.1	1380.1	610.0	79.0
82.5°	375.0	397.0	522.0	821.0	1511.1	1527.1	1574.1	1173.1	531.0	71.0	50.0
85°	211.0	220.0	300.0	465.0	792.0	832.0	702.0	431.0	95.0	39.0	29.0
87.5°	50.0	48.0	96.0	178.0	132.0	143.0	68.0	20.0	10.0	7.0	7.0
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°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	923.0	921.0	919.0	915.0	912.0	903.0	904.0	910.0	904.0	914.0	908.0
5°	925.0	922.0	917.0	905.0	896.0	889.0	887.0	886.0	878.0	887.0	883.0
7.5°	933.0	930.0	919.0	906.0	893.0	872.0	869.0	865.0	850.0	856.0	851.0
10°	952.0	948.0	929.0	911.0	891.0	863.0	847.0	835.0	818.0	820.0	815.0
12.5°	976.0	972.0	950.0	920.0	892.0	853.0	825.0	802.0	777.0	777.0	772.0
15°	1004.0	1000.0	975.0	940.0	896.0	845.0	803.0	766.0	726.0	721.0	715.0
17.5°	1042.1	1036.1	1007.1	962.0	907.0	838.0	781.0	726.0	665.0	646.0	636.0
20°	1081.1	1074.1	1049.1	993.0	922.0	831.0	749.0	674.0	595.0	556.0	549.0
22.5°	1131.1	1129.1	1098.1	1020.1	927.0	816.0	709.0	616.0	510.0	456.0	445.0
25°	1190.1	1187.1	1139.1	1041.1	921.0	786.0	652.0	533.0	414.0	360.0	348.0
27.5°	1260.1	1252.1	1174.1	1046.1	904.0	739.0	579.0	426.0	306.0	260.0	251.0
30°	1334.1	1322.1	1211.1	1047.1	870.0	681.0	483.0	313.0	217.0	184.0	184.0
32.5°	1458.1	1417.1	1247.1	1033.1	821.0	598.0	368.0	211.0	152.0	139.0	139.0
35°	1724.1	1626.1	1304.1	1015.1	757.0	495.0	250.0	143.0	127.0	127.0	126.0
37.5°	2123.1	1941.1	1401.1	985.0	670.0	368.0	165.0	118.0	121.0	121.0	121.0
40°	2378.1	2187.1	1533.1	938.0	570.0	250.0	118.0	112.0	114.0	116.0	116.0
42.5°	2616.1	2401.1	1665.1	873.0	460.0	160.0	110.0	105.0	106.0	106.0	107.0
45°	2767.1	2560.1	1763.1	804.0	339.0	114.0	108.0	99.0	96.0	96.0	98.0
47.5°	2907.1	2664.1	1806.1	713.0	219.0	107.0	103.0	92.0	88.0	87.0	87.0
50°	3047.2	2771.1	1830.1	605.0	137.0	103.0	95.0	84.0	80.0	79.0	79.0
52.5°	3109.2	2805.1	1776.1	483.0	102.0	99.0	89.0	77.0	71.0	71.0	71.0
55°	3174.2	2868.1	1685.1	346.0	97.0	92.0	82.0	69.0	64.0	66.0	66.0
57.5°	3246.2	2823.1	1588.1	225.0	96.0	83.0	73.0	62.0	58.0	60.0	61.0
60°	3224.2	2834.1	1449.1	151.0	92.0	76.0	66.0	55.0	52.0	52.0	52.0
62.5°	3224.2	2749.1	1221.1	115.0	84.0	70.0	61.0	51.0	46.0	44.0	42.0
65°	3139.2	2548.1	892.0	100.0	75.0	65.0	55.0	45.0	39.0	36.0	35.0
67.5°	2882.1	2215.1	359.0	91.0	69.0	60.0	51.0	41.0	34.0	30.0	29.0
70°	2450.1	1635.1	103.0	81.0	70.0	56.0	48.0	36.0	30.0	25.0	24.0
72.5°	1816.1	864.0	84.0	64.0	62.0	48.0	45.0	34.0	26.0	21.0	20.0
75°	917.0	118.0	72.0	46.0	48.0	50.0	43.0	30.0	24.0	17.0	16.0
77.5°	95.0	70.0	63.0	31.0	34.0	35.0	37.0	28.0	21.0	14.0	13.0
80°	59.0	53.0	62.0	27.0	20.0	24.0	25.0	22.0	17.0	11.0	11.0
82.5°	42.0	45.0	46.0	17.0	15.0	14.0	13.0	13.0	15.0	10.0	10.0
85°	29.0	30.0	19.0	11.0	10.0	9.0	8.0	8.0	7.0	8.0	7.0
87.5°	7.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	5.0
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)