

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: P509264

Luminaire Tested: **VERD-CA2-60-730-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509264  
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-CA2-60-730-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

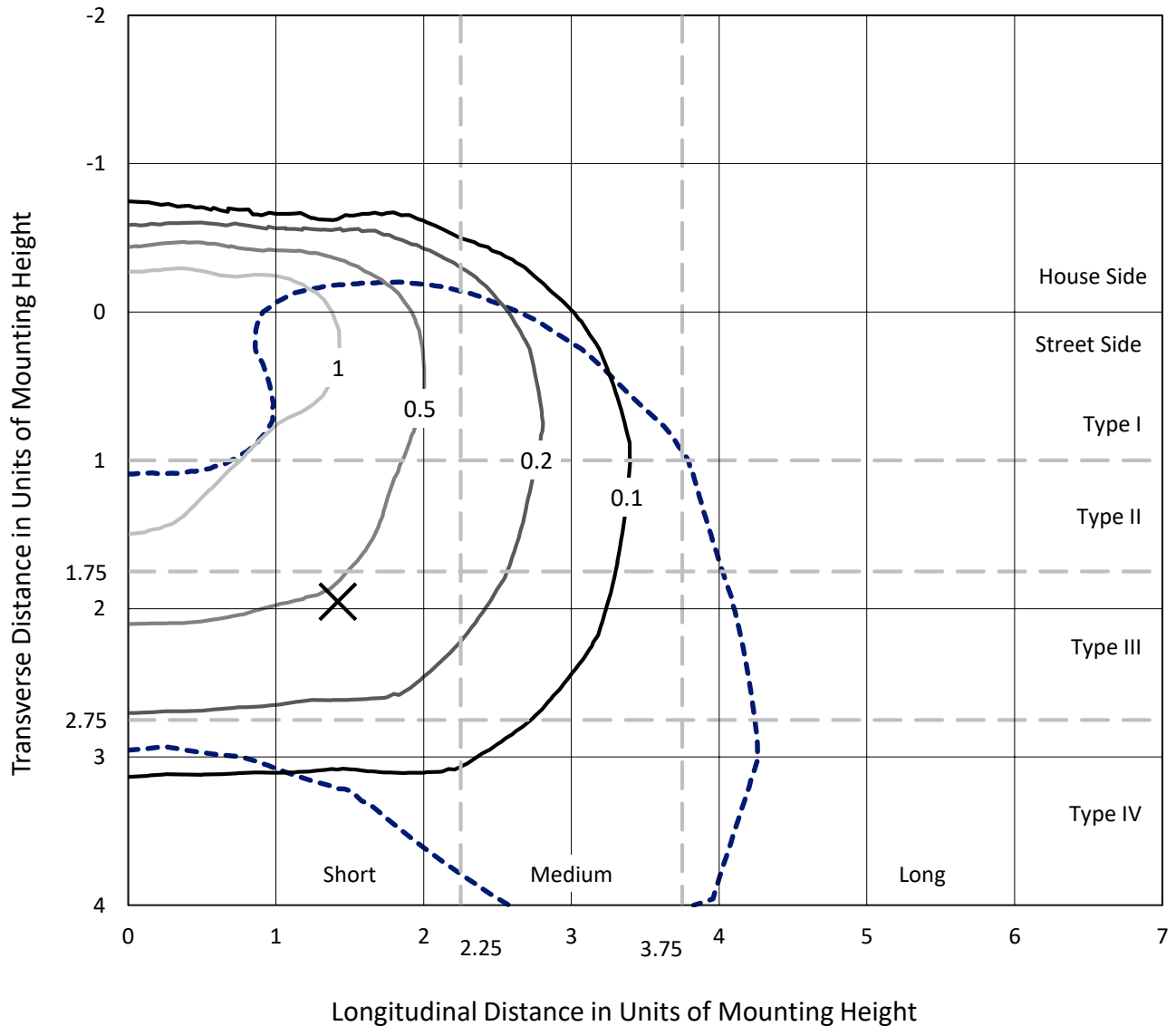
Lumens per Lamp: N/A  
Luminaire Lumens: 8210 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

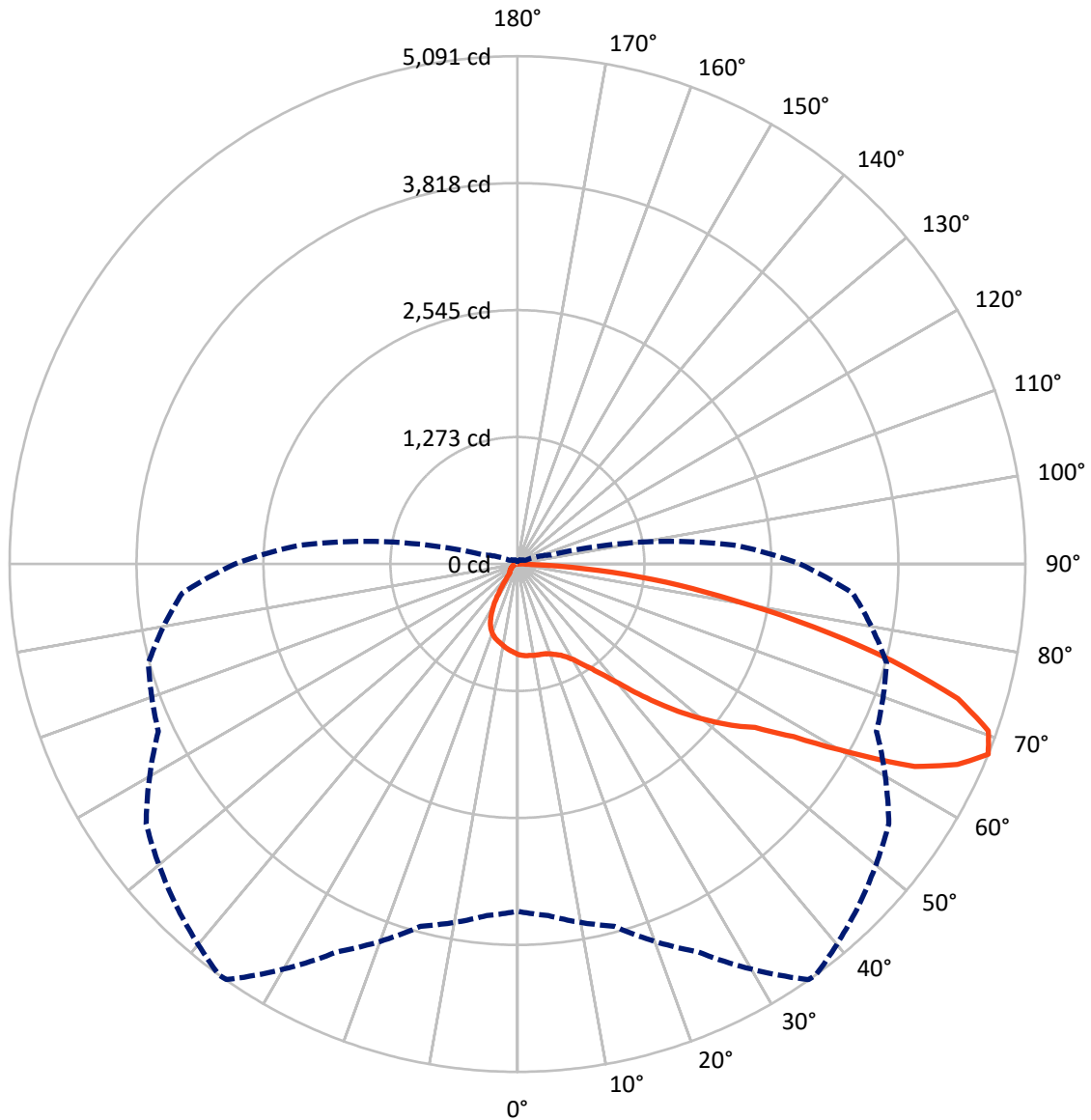
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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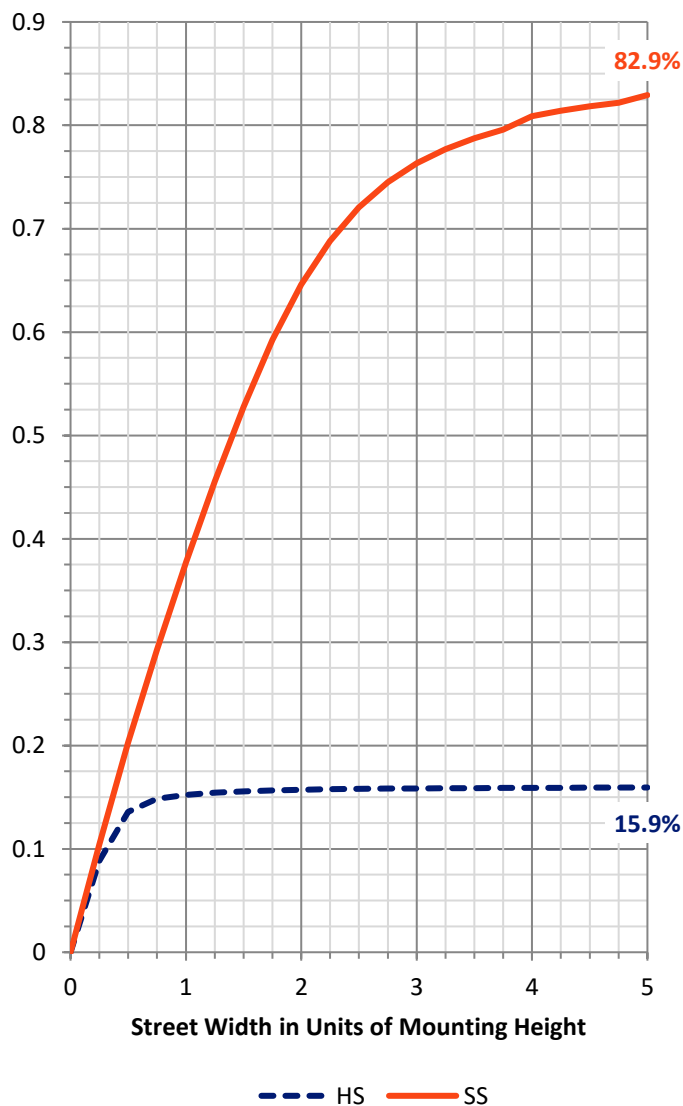
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1324.0	0.0	1324.0
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	6886.0	0.0	6886.0
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	8210.0	0.0	8210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	1.0
10°-20°	253.7	3.1
20°-30°	419.6	5.1
30°-40°	665.5	8.1
40°-50°	1148.7	14.0
50°-60°	1702.7	20.7
60°-70°	2201.3	26.8
70°-80°	1486.0	18.1
80°-90°	247.0	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°	8210.0	100.0
0°-180°	8210.0	100.0

**Coefficient of Utilization**



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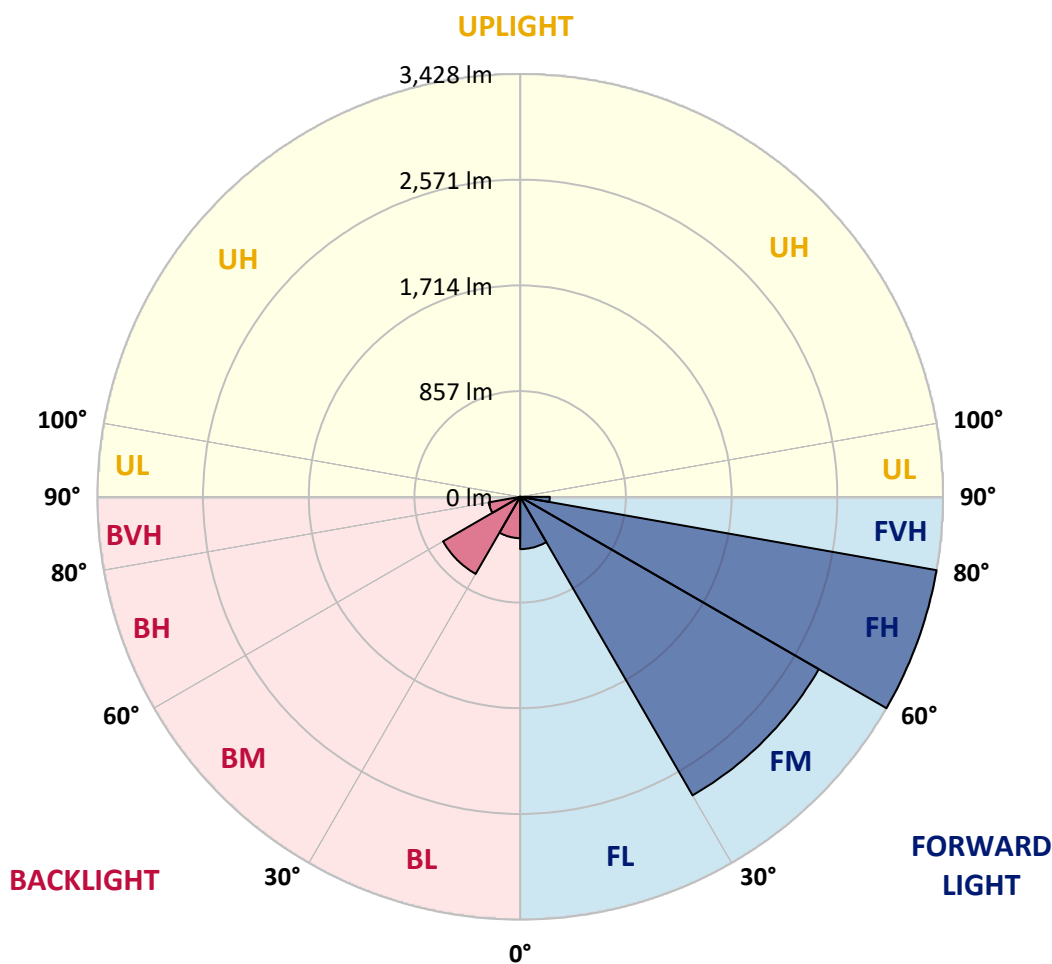
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.8	5.2			
FM (30°-60°)	2794.5	34.0			
FH (60°-80°)	3427.7	41.8			G2/5000
FVH (80°-90°)	240.0	2.9			G3/500
BL (0°-30°)	335.1	4.1	B1/500		
BM (30°-60°)	722.3	8.8	B1/1000		
BH (60°-80°)	259.6	3.2	B1/500		G1/500
BVH (80°-90°)	7.0	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°	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4
2.5°	911.3	920.1	919.1	918.2	918.2	917.2	911.3	905.4	908.3	907.4	906.4
5°	915.2	924.1	923.1	922.1	922.1	923.1	914.2	907.4	909.3	911.3	910.3
7.5°	917.2	925.0	923.1	922.1	921.1	924.1	917.2	918.2	920.1	920.1	920.1
10°	920.1	926.0	926.0	927.0	928.0	930.9	928.0	930.9	938.8	936.8	941.7
12.5°	912.3	919.1	922.1	927.0	931.9	933.9	936.8	944.7	954.5	959.4	964.3
15°	909.3	916.2	921.1	927.0	934.9	936.8	944.7	958.4	970.2	980.0	990.8
17.5°	919.1	927.0	933.9	937.8	941.7	944.7	952.5	970.2	990.8	1008.5	1024.2
20°	937.8	945.7	953.5	957.4	960.4	962.3	968.2	984.9	1011.4	1038.9	1061.5
22.5°	959.4	967.3	976.1	979.0	985.9	985.9	986.9	1003.6	1036.0	1073.3	1100.8
25°	983.0	987.9	995.7	1000.6	1010.5	1012.4	1015.4	1030.1	1070.4	1112.6	1155.8
27.5°	1010.5	1020.3	1028.1	1034.0	1053.7	1054.7	1052.7	1071.3	1110.6	1162.7	1223.6
30°	1060.5	1071.3	1079.2	1089.0	1114.6	1113.6	1126.3	1146.0	1168.6	1225.5	1307.0
32.5°	1140.1	1141.1	1145.0	1157.8	1194.1	1198.0	1222.6	1257.9	1303.1	1339.4	1425.8
35°	1285.4	1280.5	1268.7	1266.8	1291.3	1293.3	1341.4	1416.0	1514.2	1635.0	1768.6
37.5°	1455.3	1468.1	1454.3	1412.1	1416.0	1417.0	1474.0	1569.2	1751.9	2054.3	2181.0
40°	1753.8	1760.7	1675.3	1608.5	1584.9	1574.1	1603.6	1747.9	1981.7	2375.4	2464.8
42.5°	2017.0	2017.0	1937.5	1834.4	1774.5	1782.3	1773.5	1916.8	2217.3	2654.3	2686.7
45°	2280.2	2271.3	2198.7	2112.3	2007.2	2000.3	1977.7	2087.7	2434.4	2854.6	2855.6
47.5°	2525.7	2546.3	2437.3	2342.0	2235.0	2230.1	2189.8	2275.3	2642.5	3030.4	3003.9
50°	2783.9	2812.4	2675.9	2568.9	2453.0	2459.9	2426.5	2486.4	2849.7	3194.4	3146.3
52.5°	3151.2	3098.2	2935.2	2786.9	2667.1	2686.7	2652.4	2687.7	3064.8	3325.0	3224.9
55°	3545.0	3450.7	3315.2	3066.8	2892.9	2891.0	2865.4	2907.7	3281.8	3474.3	3314.2
57.5°	3756.1	3784.6	3753.2	3551.9	3271.0	3266.1	3112.9	3117.8	3481.2	3601.9	3438.9
60°	3996.7	4032.0	4100.8	3975.1	3834.7	3838.6	3456.6	3342.7	3691.3	3704.1	3448.7
62.5°	4124.4	4128.3	4286.4	4330.6	4444.5	4470.0	4180.3	3617.6	3830.7	3782.6	3465.4
65°	3898.5	3905.4	4209.8	4432.7	4812.7	4847.1	4722.4	4149.9	3934.8	3823.9	3449.7
67.5°	3481.2	3537.1	3759.1	4291.3	5085.7	5090.6	4839.2	4543.7	3971.2	3829.8	3374.1
70°	2917.5	2897.8	3178.7	3818.0	5043.5	5007.2	4788.2	4588.8	3944.6	3749.2	3029.4
72.5°	2163.3	2133.9	2423.5	3069.7	4549.6	4618.3	4559.4	4324.7	3844.5	3448.7	2458.9
75°	1480.8	1515.2	1775.4	2314.5	3778.7	3882.8	4143.0	4120.4	3420.3	2858.6	1683.1
77.5°	1013.4	1028.1	1251.1	1722.4	2995.1	3035.3	3466.4	3328.9	2514.9	1756.8	561.7
80°	659.9	655.0	855.3	1226.5	2195.7	2190.8	2475.6	2106.4	1355.1	599.0	77.6
82.5°	368.2	389.8	512.6	806.2	1483.8	1499.5	1545.7	1151.9	521.4	69.7	49.1
85°	207.2	216.0	294.6	456.6	777.7	817.0	689.4	423.2	93.3	38.3	28.5
87.5°	49.1	47.1	94.3	174.8	129.6	140.4	66.8	19.6	9.8	6.9	6.9
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°	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4
2.5°	906.4	904.4	902.4	898.5	895.6	886.7	887.7	893.6	887.7	897.5	891.6
5°	908.3	905.4	900.5	888.7	879.9	873.0	871.0	870.0	862.2	871.0	867.1
7.5°	916.2	913.2	902.4	889.7	876.9	856.3	853.3	849.4	834.7	840.6	835.7
10°	934.9	930.9	912.3	894.6	875.0	847.5	831.7	820.0	803.3	805.2	800.3
12.5°	958.4	954.5	932.9	903.4	875.9	837.6	810.1	787.6	763.0	763.0	758.1
15°	985.9	982.0	957.4	923.1	879.9	829.8	788.5	752.2	712.9	708.0	702.1
17.5°	1023.2	1017.3	988.9	944.7	890.7	822.9	766.9	712.9	653.0	634.4	624.5
20°	1061.5	1054.7	1030.1	975.1	905.4	816.0	735.5	661.9	584.3	546.0	539.1
22.5°	1110.6	1108.7	1078.2	1001.6	910.3	801.3	696.2	604.9	500.8	447.8	437.0
25°	1168.6	1165.6	1118.5	1022.3	904.4	771.8	640.3	523.4	406.5	353.5	341.7
27.5°	1237.3	1229.4	1152.9	1027.2	887.7	725.7	568.6	418.3	300.5	255.3	246.5
30°	1310.0	1298.2	1189.2	1028.1	854.3	668.7	474.3	307.4	213.1	180.7	180.7
32.5°	1431.7	1391.5	1224.5	1014.4	806.2	587.2	361.4	207.2	149.3	136.5	136.5
35°	1692.9	1596.7	1280.5	996.7	743.4	486.1	245.5	140.4	124.7	124.7	123.7
37.5°	2084.8	1906.0	1375.8	967.3	657.9	361.4	162.0	115.9	118.8	118.8	118.8
40°	2335.2	2147.6	1505.4	921.1	559.7	245.5	115.9	110.0	111.9	113.9	113.9
42.5°	2568.9	2357.8	1635.0	857.3	451.7	157.1	108.0	103.1	104.1	104.1	105.1
45°	2717.2	2513.9	1731.2	789.5	332.9	111.9	106.1	97.2	94.3	94.3	96.2
47.5°	2854.6	2616.0	1773.5	700.2	215.1	105.1	101.1	90.3	86.4	85.4	85.4
50°	2992.1	2721.1	1797.0	594.1	134.5	101.1	93.3	82.5	78.6	77.6	77.6
52.5°	3053.0	2754.5	1744.0	474.3	100.2	97.2	87.4	75.6	69.7	69.7	69.7
55°	3116.8	2816.3	1654.7	339.8	95.3	90.3	80.5	67.8	62.8	64.8	64.8
57.5°	3187.5	2772.2	1559.4	220.9	94.3	81.5	71.7	60.9	57.0	58.9	59.9
60°	3165.9	2783.0	1422.9	148.3	90.3	74.6	64.8	54.0	51.1	51.1	51.1
62.5°	3165.9	2699.5	1199.0	112.9	82.5	68.7	59.9	50.1	45.2	43.2	41.2
65°	3082.5	2502.1	875.9	98.2	73.6	63.8	54.0	44.2	38.3	35.4	34.4
67.5°	2830.1	2175.1	352.5	89.4	67.8	58.9	50.1	40.3	33.4	29.5	28.5
70°	2405.9	1605.6	101.1	79.5	68.7	55.0	47.1	35.4	29.5	24.5	23.6
72.5°	1783.3	848.4	82.5	62.8	60.9	47.1	44.2	33.4	25.5	20.6	19.6
75°	900.5	115.9	70.7	45.2	47.1	49.1	42.2	29.5	23.6	16.7	15.7
77.5°	93.3	68.7	61.9	30.4	33.4	34.4	36.3	27.5	20.6	13.7	12.8
80°	57.9	52.0	60.9	26.5	19.6	23.6	24.5	21.6	16.7	10.8	10.8
82.5°	41.2	44.2	45.2	16.7	14.7	13.7	12.8	12.8	14.7	9.8	9.8
85°	28.5	29.5	18.7	10.8	9.8	8.8	7.9	7.9	6.9	7.9	6.9
87.5°	6.9	5.9	5.9	5.9	4.9	4.9	3.9	3.9	3.9	3.9	4.9
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)