

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: P509296

Luminaire Tested: **VERD-CA2-70-722-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509296
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-CA2-70-722-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7770 lumens
Efficiency: N/A
Efficacy: 105.6 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

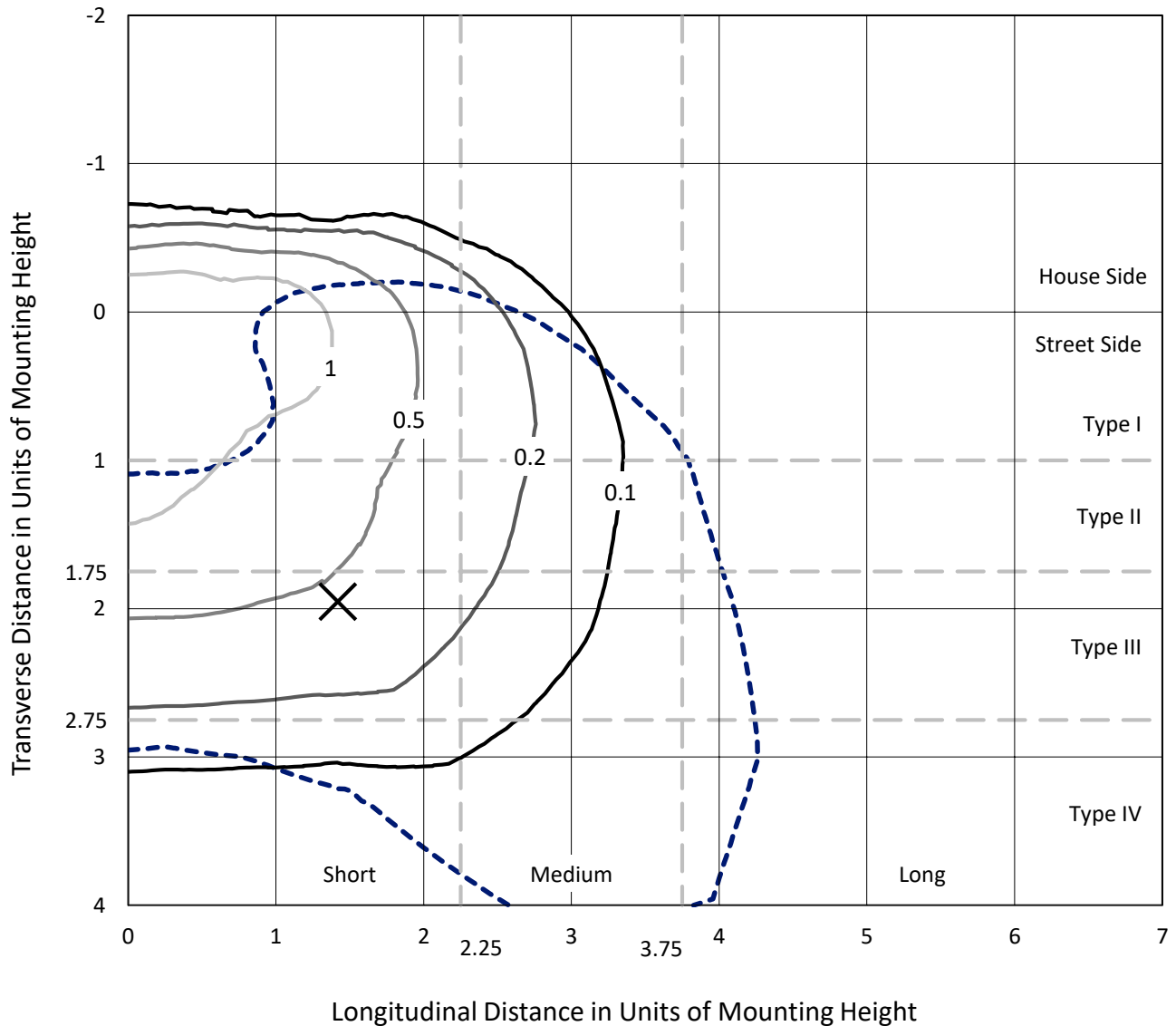
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

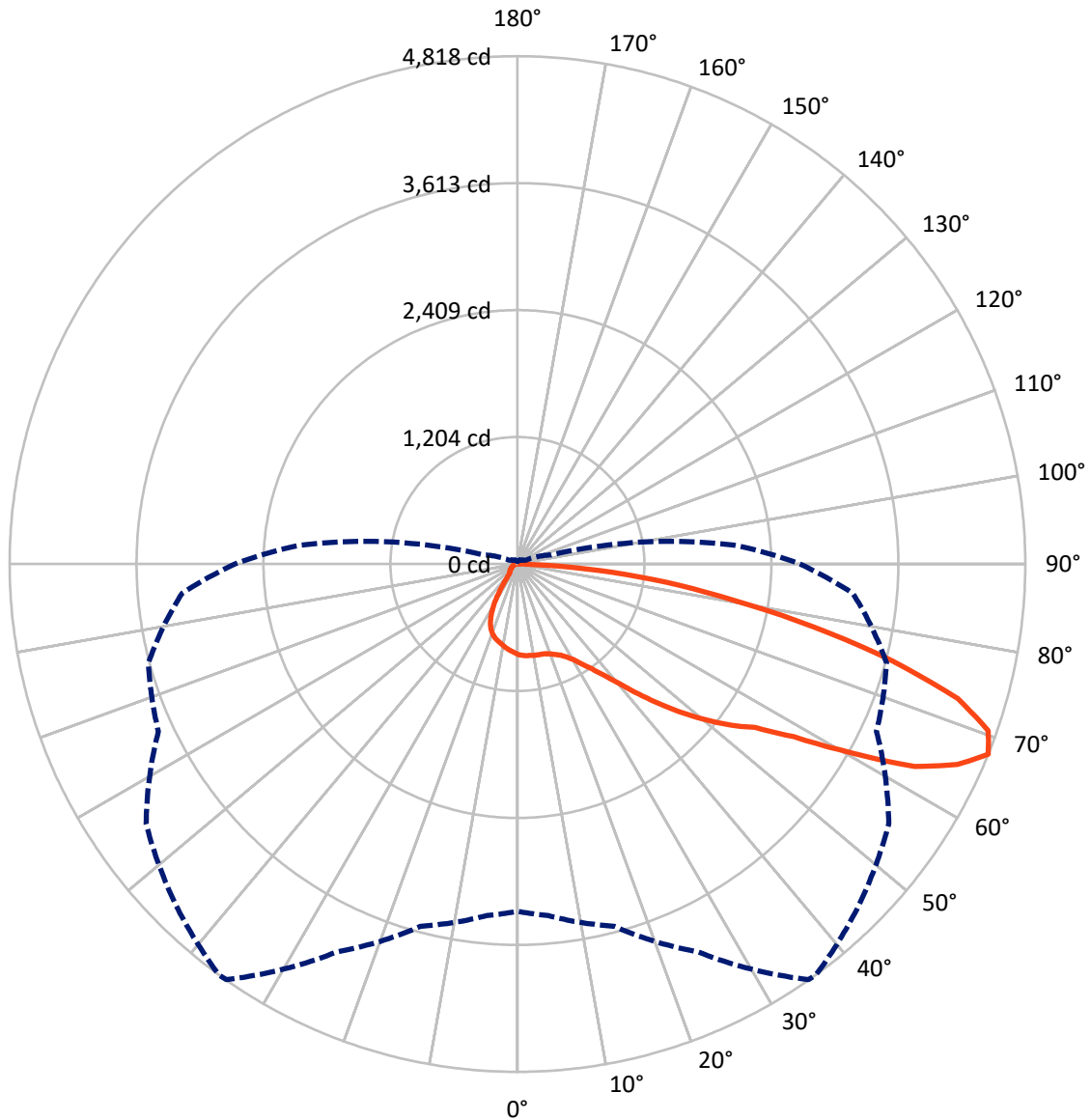
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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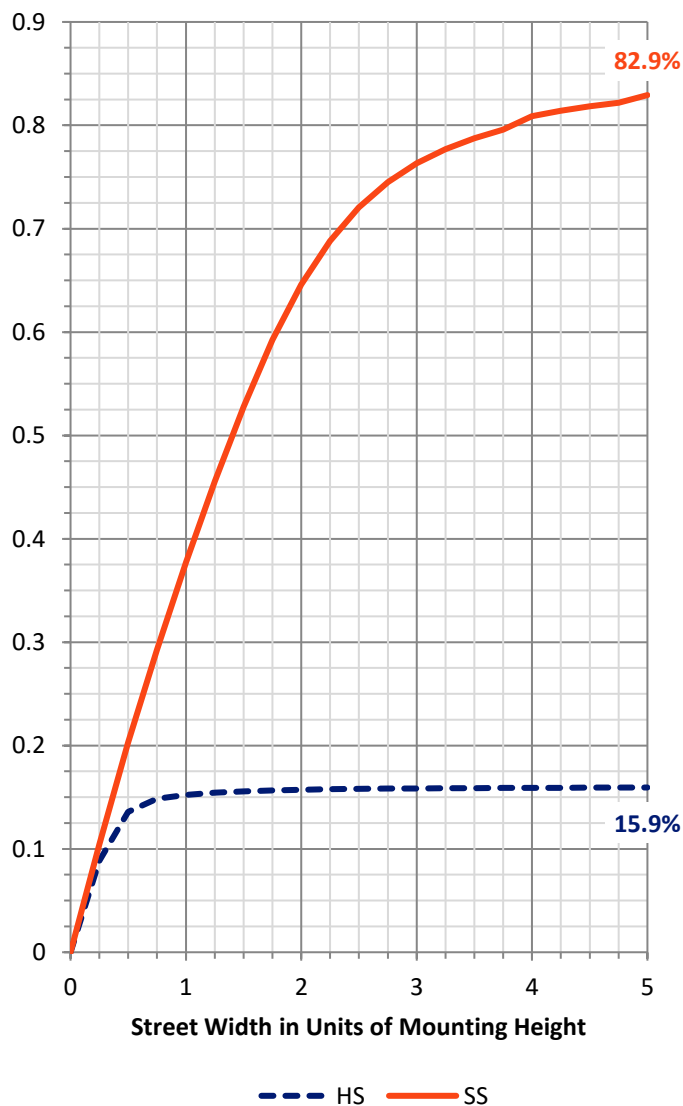
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.0	0.0	1253.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6516.9	0.0	6516.9
	% Fixture	83.9	0.0	83.9
Total	Lumens	7770.0	0.0	7770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.0
10°-20°	240.1	3.1
20°-30°	397.1	5.1
30°-40°	629.8	8.1
40°-50°	1087.1	14.0
50°-60°	1611.4	20.7
60°-70°	2083.3	26.8
70°-80°	1406.3	18.1
80°-90°	233.8	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°	7770.0	100.0
0°-180°	7770.0	100.0

Coefficient of Utilization



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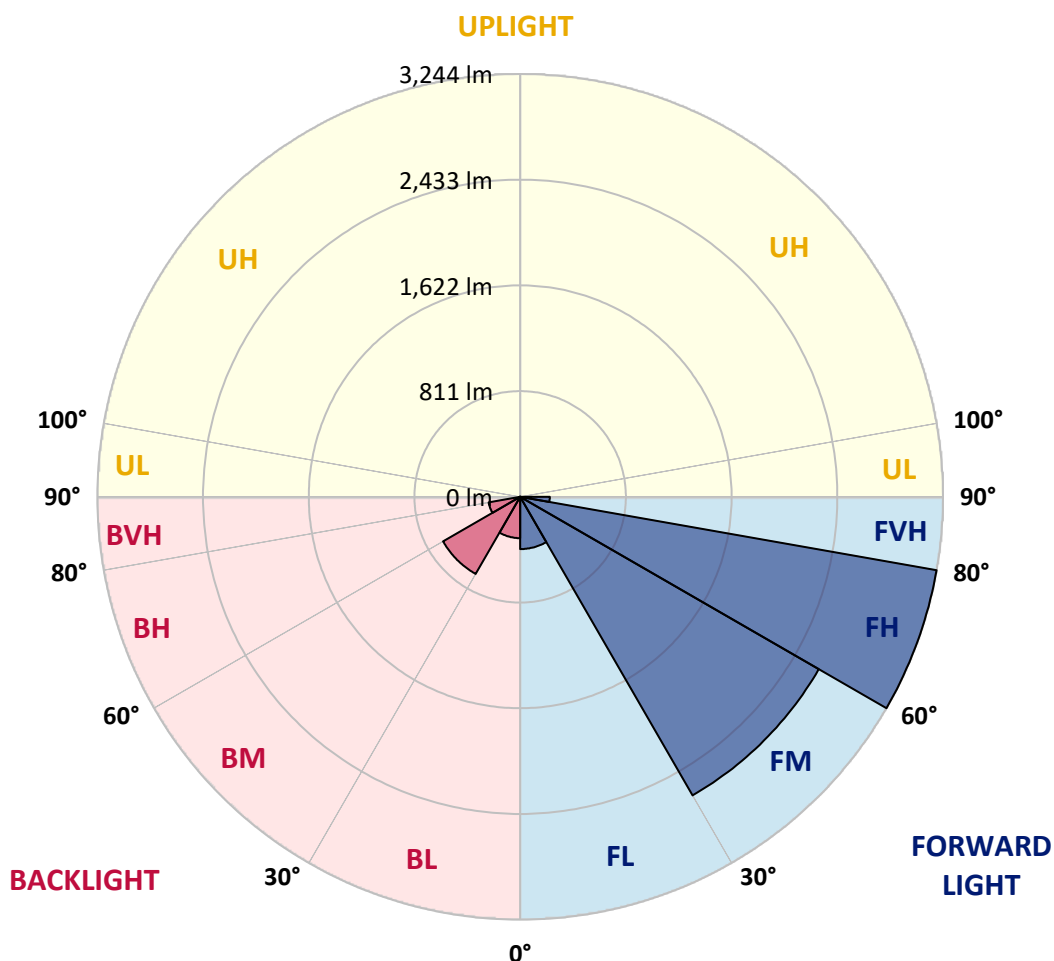
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.1	5.2			
FM	(30°-60°)	2644.8	34.0			
FH	(60°-80°)	3244.0	41.8			G2/5000
FVH	(80°-90°)	227.1	2.9			G3/500
BL	(0°-30°)	317.1	4.1	B1/500		
BM	(30°-60°)	683.6	8.8	B1/1000		
BH	(60°-80°)	245.7	3.2	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7
2.5°	862.4	870.8	869.9	869.0	869.0	868.0	862.4	856.9	859.7	858.7	857.8
5°	866.2	874.5	873.6	872.7	872.7	873.6	865.2	858.7	860.6	862.4	861.5
7.5°	868.0	875.5	873.6	872.7	871.7	874.5	868.0	869.0	870.8	870.8	870.8
10°	870.8	876.4	876.4	877.3	878.2	881.0	878.2	881.0	888.5	886.6	891.3
12.5°	863.4	869.9	872.7	877.3	882.0	883.8	886.6	894.0	903.3	908.0	912.6
15°	860.6	867.1	871.7	877.3	884.8	886.6	894.0	907.1	918.2	927.5	937.7
17.5°	869.9	877.3	883.8	887.5	891.3	894.0	901.5	918.2	937.7	954.5	969.3
20°	887.5	895.0	902.4	906.1	908.9	910.8	916.3	932.1	957.2	983.3	1004.6
22.5°	908.0	915.4	923.8	926.6	933.1	933.1	934.0	949.8	980.5	1015.8	1041.8
25°	930.3	934.9	942.4	947.0	956.3	958.2	961.0	974.9	1013.0	1053.0	1093.9
27.5°	956.3	965.6	973.0	978.6	997.2	998.1	996.3	1013.9	1051.1	1100.4	1158.0
30°	1003.7	1013.9	1021.4	1030.7	1054.8	1053.9	1066.0	1084.6	1105.9	1159.8	1237.0
32.5°	1079.0	1079.9	1083.6	1095.7	1130.1	1133.8	1157.1	1190.5	1233.3	1267.6	1349.4
35°	1216.5	1211.9	1200.7	1198.9	1222.1	1224.0	1269.5	1340.1	1433.1	1547.4	1673.8
37.5°	1377.3	1389.4	1376.4	1336.4	1340.1	1341.1	1395.0	1485.1	1658.0	1944.2	2064.1
40°	1659.8	1666.3	1585.5	1522.3	1500.0	1489.8	1517.6	1654.3	1875.5	2248.1	2332.7
42.5°	1908.9	1908.9	1833.6	1736.0	1679.4	1686.8	1678.4	1814.1	2098.5	2512.1	2542.7
45°	2158.0	2149.6	2080.8	1999.1	1899.6	1893.1	1871.7	1975.8	2303.9	2701.7	2702.6
47.5°	2390.3	2409.8	2306.7	2216.5	2115.2	2110.6	2072.5	2153.3	2500.9	2868.0	2842.9
50°	2634.7	2661.7	2532.5	2431.2	2321.5	2328.0	2296.5	2353.1	2697.0	3023.2	2977.7
52.5°	2982.3	2932.1	2777.9	2637.5	2524.1	2542.7	2510.2	2543.7	2900.5	3146.8	3052.0
55°	3355.0	3265.8	3137.5	2902.4	2737.9	2736.0	2711.9	2751.8	3105.9	3288.1	3136.6
57.5°	3554.8	3581.8	3552.0	3361.5	3095.7	3091.1	2946.1	2950.7	3294.6	3408.9	3254.6
60°	3782.5	3816.0	3881.0	3762.1	3629.2	3632.9	3271.4	3163.5	3493.5	3505.5	3263.9
62.5°	3903.3	3907.0	4056.7	4098.5	4206.3	4230.5	3956.3	3423.8	3625.4	3579.9	3279.7
65°	3689.6	3696.1	3984.2	4195.1	4554.8	4587.3	4469.3	3927.5	3723.9	3618.9	3264.8
67.5°	3294.6	3347.6	3557.6	4061.3	4813.2	4817.8	4579.9	4300.2	3758.3	3624.5	3193.3
70°	2761.1	2742.5	3008.3	3613.4	4773.2	4738.8	4531.6	4342.9	3733.2	3548.3	2867.1
72.5°	2047.4	2019.5	2293.7	2905.2	4305.7	4370.8	4315.0	4092.9	3638.4	3263.9	2327.1
75°	1401.5	1434.0	1680.3	2190.5	3576.2	3674.7	3921.0	3899.6	3237.0	2705.4	1592.9
77.5°	959.1	973.0	1184.0	1630.1	2834.6	2872.7	3280.6	3150.5	2380.1	1662.6	531.6
80°	624.5	619.9	809.5	1160.8	2078.1	2073.4	2342.9	1993.5	1282.5	566.9	73.4
82.5°	348.5	369.0	485.1	763.0	1404.3	1419.1	1462.8	1090.1	493.5	66.0	46.5
85°	196.1	204.5	278.8	432.2	736.1	773.2	652.4	400.6	88.3	36.2	27.0
87.5°	46.5	44.6	89.2	165.4	122.7	132.9	63.2	18.6	9.3	6.5	6.5
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°	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7	858.7
2.5°	857.8	855.9	854.1	850.4	847.6	839.2	840.1	845.7	840.1	849.4	843.9
5°	859.7	856.9	852.2	841.1	832.7	826.2	824.3	823.4	816.0	824.3	820.6
7.5°	867.1	864.3	854.1	842.0	829.9	810.4	807.6	803.9	790.0	795.5	790.9
10°	884.8	881.0	863.4	846.6	828.1	802.0	787.2	776.0	760.2	762.1	757.4
12.5°	907.1	903.3	882.9	855.0	829.0	792.7	766.7	745.3	722.1	722.1	717.5
15°	933.1	929.4	906.1	873.6	832.7	785.3	746.3	711.9	674.7	670.1	664.5
17.5°	968.4	962.8	935.9	894.0	842.9	778.8	725.8	674.7	618.0	600.4	591.1
20°	1004.6	998.1	974.9	922.9	856.9	772.3	696.1	626.4	553.0	516.7	510.2
22.5°	1051.1	1049.2	1020.4	947.9	861.5	758.4	658.9	572.5	474.0	423.8	413.6
25°	1105.9	1103.2	1058.5	967.5	855.9	730.5	605.9	495.3	384.8	334.6	323.4
27.5°	1171.0	1163.6	1091.1	972.1	840.1	686.8	538.1	395.9	284.4	241.6	233.3
30°	1239.8	1228.6	1125.5	973.0	808.5	632.9	448.9	290.9	201.7	171.0	171.0
32.5°	1355.0	1316.9	1158.9	960.0	763.0	555.8	342.0	196.1	141.3	129.2	129.2
35°	1602.2	1511.1	1211.9	943.3	703.5	460.0	232.3	132.9	118.0	118.0	117.1
37.5°	1973.0	1803.9	1302.0	915.4	622.7	342.0	153.3	109.7	112.5	112.5	112.5
40°	2210.0	2032.5	1424.7	871.7	529.7	232.3	109.7	104.1	105.9	107.8	107.8
42.5°	2431.2	2231.4	1547.4	811.3	427.5	148.7	102.2	97.6	98.5	98.5	99.4
45°	2571.5	2379.2	1638.5	747.2	315.1	105.9	100.4	92.0	89.2	89.2	91.1
47.5°	2701.7	2475.8	1678.4	662.6	203.5	99.4	95.7	85.5	81.8	80.9	80.9
50°	2831.8	2575.3	1700.7	562.3	127.3	95.7	88.3	78.1	74.3	73.4	73.4
52.5°	2889.4	2606.9	1650.5	448.9	94.8	92.0	82.7	71.6	66.0	66.0	66.0
55°	2949.8	2665.4	1566.0	321.6	90.1	85.5	76.2	64.1	59.5	61.3	61.3
57.5°	3016.7	2623.6	1475.8	209.1	89.2	77.1	67.8	57.6	53.9	55.8	56.7
60°	2996.3	2633.8	1346.6	140.3	85.5	70.6	61.3	51.1	48.3	48.3	48.3
62.5°	2996.3	2554.8	1134.7	106.9	78.1	65.1	56.7	47.4	42.8	40.9	39.0
65°	2917.3	2368.0	829.0	92.9	69.7	60.4	51.1	41.8	36.2	33.5	32.5
67.5°	2678.4	2058.5	333.6	84.6	64.1	55.8	47.4	38.1	31.6	27.9	27.0
70°	2276.9	1519.5	95.7	75.3	65.1	52.0	44.6	33.5	27.9	23.2	22.3
72.5°	1687.7	803.0	78.1	59.5	57.6	44.6	41.8	31.6	24.2	19.5	18.6
75°	852.2	109.7	66.9	42.8	44.6	46.5	40.0	27.9	22.3	15.8	14.9
77.5°	88.3	65.1	58.5	28.8	31.6	32.5	34.4	26.0	19.5	13.0	12.1
80°	54.8	49.3	57.6	25.1	18.6	22.3	23.2	20.4	15.8	10.2	10.2
82.5°	39.0	41.8	42.8	15.8	13.9	13.0	12.1	12.1	13.9	9.3	9.3
85°	27.0	27.9	17.7	10.2	9.3	8.4	7.4	7.4	6.5	7.4	6.5
87.5°	6.5	5.6	5.6	5.6	4.6	4.6	3.7	3.7	3.7	3.7	4.6
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)