

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: P509288

Luminaire Tested: **VERD-CA2-60-760-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509288
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-CA2-60-760-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8334 lumens
Efficiency: N/A
Efficacy: 131.5 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

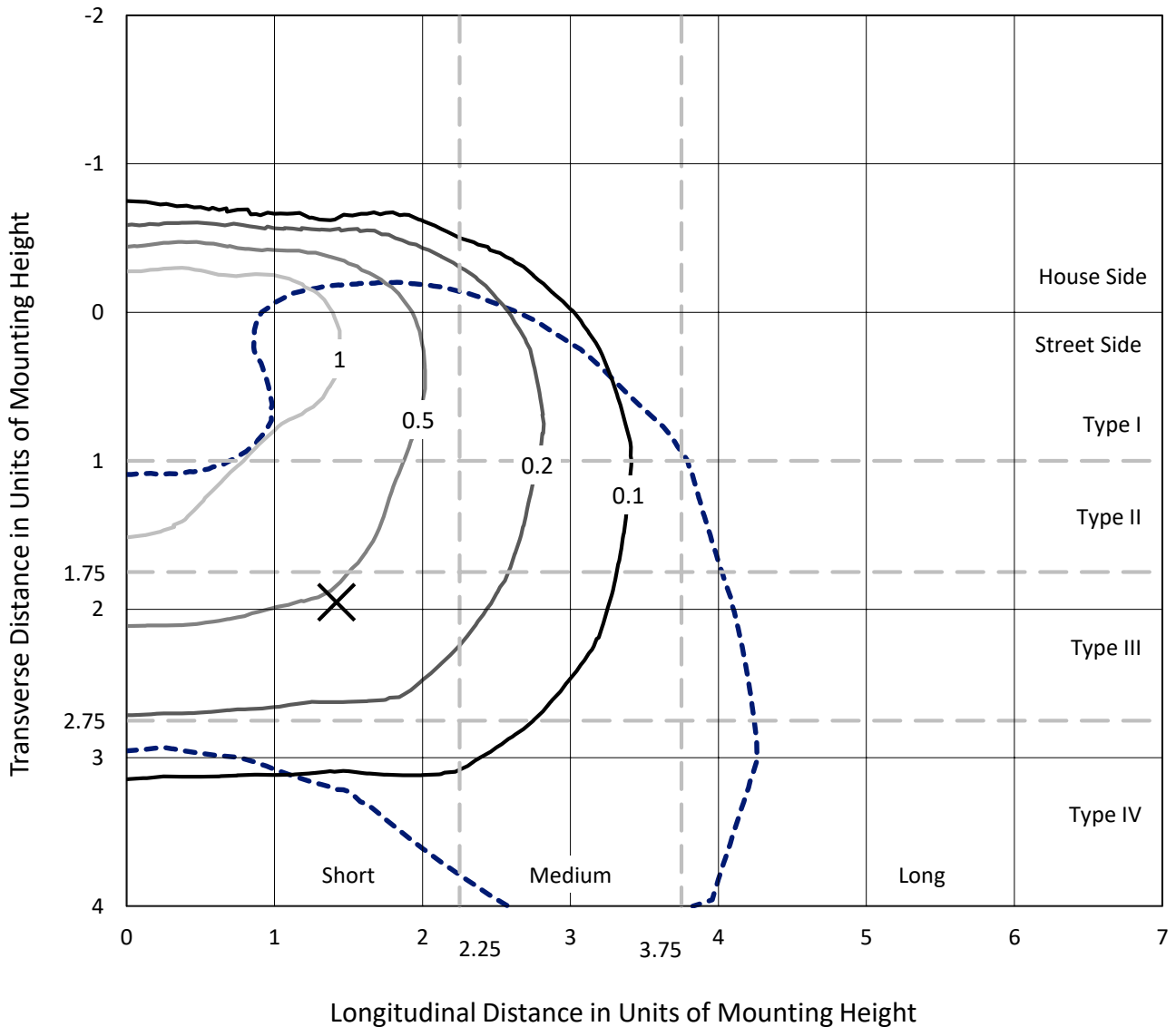
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

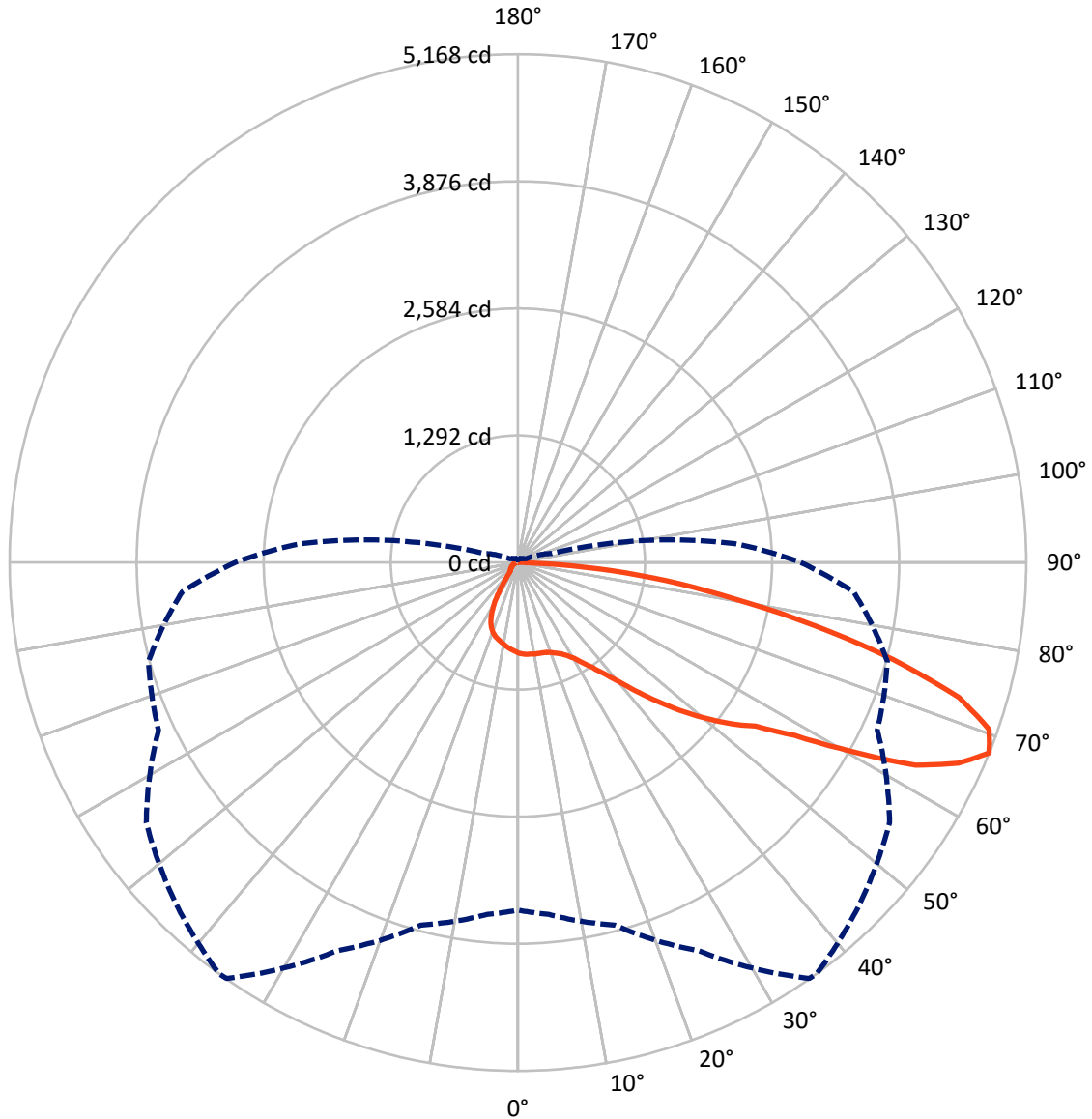
✕ Max cd
 - - - 1/2 Max cd



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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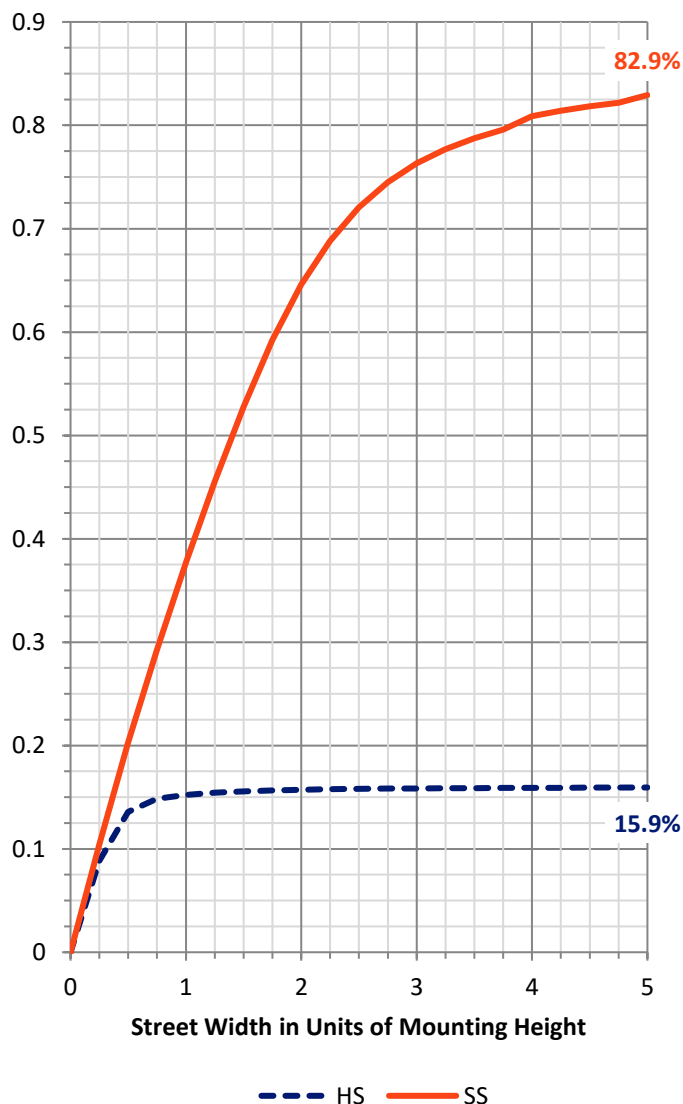
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1344.0	0.0	1344.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	6990.0	0.0	6990.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	8334.0	0.0	8334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.0
10°-20°	257.5	3.1
20°-30°	425.9	5.1
30°-40°	675.6	8.1
40°-50°	1166.1	14.0
50°-60°	1728.4	20.7
60°-70°	2234.6	26.8
70°-80°	1508.4	18.1
80°-90°	250.7	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°	8334.0	100.0
0°-180°	8334.0	100.0

Coefficient of Utilization



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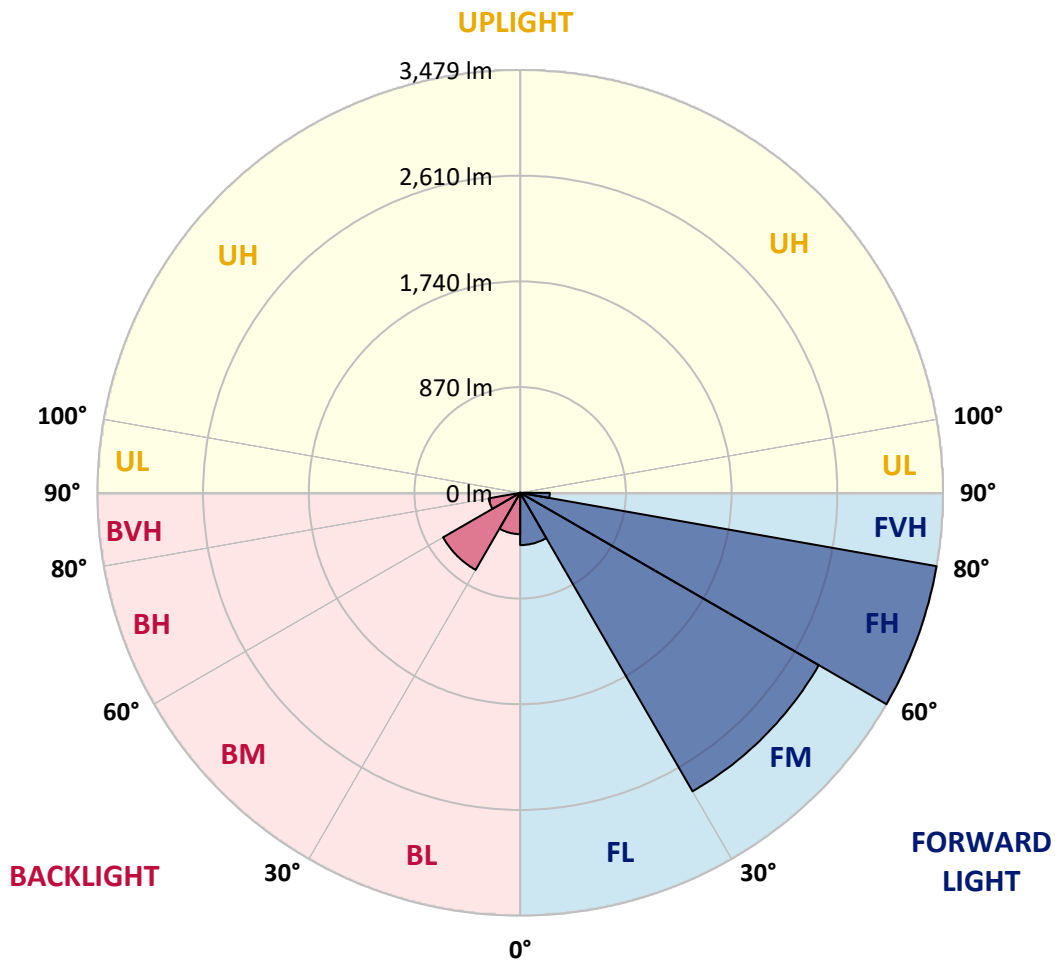
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.2	5.2			
FM	(30°-60°)	2836.7	34.0			
FH	(60°-80°)	3479.5	41.8			G2/5000
FVH	(80°-90°)	243.6	2.9			G3/500
BL	(0°-30°)	340.1	4.1	B1/500		
BM	(30°-60°)	733.2	8.8	B1/1000		
BH	(60°-80°)	263.5	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°	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1
2.5°	925.0	934.0	933.0	932.0	932.0	931.0	925.0	919.1	922.1	921.1	920.1
5°	929.0	938.0	937.0	936.0	936.0	937.0	928.0	921.1	923.1	925.0	924.1
7.5°	931.0	939.0	937.0	936.0	935.0	938.0	931.0	932.0	934.0	934.0	934.0
10°	934.0	940.0	940.0	941.0	942.0	945.0	942.0	945.0	953.0	951.0	956.0
12.5°	926.0	933.0	936.0	941.0	946.0	948.0	951.0	958.9	968.9	973.9	978.9
15°	923.1	930.0	935.0	941.0	949.0	951.0	958.9	972.9	984.9	994.8	1005.8
17.5°	933.0	941.0	948.0	952.0	956.0	958.9	966.9	984.9	1005.8	1023.7	1039.7
20°	952.0	959.9	967.9	971.9	974.9	976.9	982.9	999.8	1026.7	1054.6	1077.6
22.5°	973.9	981.9	990.8	993.8	1000.8	1000.8	1001.8	1018.8	1051.6	1089.5	1117.4
25°	997.8	1002.8	1010.8	1015.8	1025.7	1027.7	1030.7	1045.7	1086.5	1129.4	1173.3
27.5°	1025.7	1035.7	1043.7	1049.7	1069.6	1070.6	1068.6	1087.5	1127.4	1180.2	1242.0
30°	1076.6	1087.5	1095.5	1105.5	1131.4	1130.4	1143.4	1163.3	1186.2	1244.0	1326.8
32.5°	1157.3	1158.3	1162.3	1175.3	1212.1	1216.1	1241.0	1276.9	1322.8	1359.7	1447.4
35°	1304.8	1299.9	1287.9	1285.9	1310.8	1312.8	1361.7	1437.4	1537.1	1659.7	1795.3
37.5°	1477.3	1490.2	1476.3	1433.4	1437.4	1438.4	1496.2	1592.9	1778.3	2085.3	2213.9
40°	1780.3	1787.3	1700.6	1632.8	1608.9	1597.9	1627.8	1774.3	2011.6	2411.3	2502.0
42.5°	2047.5	2047.5	1966.7	1862.1	1801.3	1809.2	1800.3	1945.8	2250.8	2694.4	2727.3
45°	2314.6	2305.6	2231.9	2144.2	2037.5	2030.5	2007.6	2119.2	2471.1	2897.8	2898.8
47.5°	2563.8	2584.8	2474.1	2377.4	2268.8	2263.8	2222.9	2309.6	2682.4	3076.2	3049.3
50°	2826.0	2854.9	2716.3	2607.7	2490.1	2497.0	2463.1	2523.9	2892.8	3242.7	3193.8
52.5°	3198.8	3145.0	2979.5	2829.0	2707.4	2727.3	2692.4	2728.3	3111.1	3375.2	3273.6
55°	3598.5	3502.8	3365.3	3113.1	2936.6	2934.6	2908.7	2951.6	3331.4	3526.8	3364.3
57.5°	3812.8	3841.7	3809.8	3605.5	3320.4	3315.4	3159.9	3164.9	3533.7	3656.3	3490.9
60°	4057.1	4092.9	4162.7	4035.1	3892.6	3896.6	3508.8	3393.2	3747.0	3760.0	3500.8
62.5°	4186.6	4190.6	4351.1	4396.0	4511.6	4537.5	4243.5	3672.3	3888.6	3839.8	3517.8
65°	3957.4	3964.4	4273.4	4499.6	4885.4	4920.3	4793.7	4212.6	3994.3	3881.6	3501.8
67.5°	3533.7	3590.5	3815.8	4356.1	5162.5	5167.5	4912.3	4612.3	4031.1	3887.6	3425.1
70°	2961.6	2941.6	3226.7	3875.6	5119.7	5082.8	4860.5	4658.1	4004.2	3805.9	3075.2
72.5°	2196.0	2166.1	2460.2	3116.1	4618.3	4688.0	4628.2	4390.0	3902.6	3500.8	2496.0
75°	1503.2	1538.1	1802.3	2349.5	3835.8	3941.4	4205.6	4182.7	3471.9	2901.7	1708.5
77.5°	1028.7	1043.7	1269.9	1748.4	3040.3	3081.2	3518.8	3379.2	2552.9	1783.3	570.2
80°	669.9	664.9	868.2	1245.0	2228.9	2223.9	2513.0	2138.2	1375.6	608.1	78.7
82.5°	373.8	395.7	520.3	818.4	1506.2	1522.1	1569.0	1169.3	529.3	70.8	49.8
85°	210.3	219.3	299.0	463.5	789.5	829.4	699.8	429.6	94.7	38.9	28.9
87.5°	49.8	47.8	95.7	177.4	131.6	142.5	67.8	19.9	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°	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1	921.1
2.5°	920.1	918.1	916.1	912.1	909.1	900.1	901.1	907.1	901.1	911.1	905.1
5°	922.1	919.1	914.1	902.1	893.2	886.2	884.2	883.2	875.2	884.2	880.2
7.5°	930.0	927.0	916.1	903.1	890.2	869.2	866.2	862.2	847.3	853.3	848.3
10°	949.0	945.0	926.0	908.1	888.2	860.3	844.3	832.3	815.4	817.4	812.4
12.5°	972.9	968.9	947.0	917.1	889.2	850.3	822.4	799.4	774.5	774.5	769.5
15°	1000.8	996.8	971.9	937.0	893.2	842.3	800.4	763.6	723.7	718.7	712.7
17.5°	1038.7	1032.7	1003.8	958.9	904.1	835.3	778.5	723.7	662.9	643.9	634.0
20°	1077.6	1070.6	1045.7	989.8	919.1	828.4	746.6	671.9	593.1	554.2	547.3
22.5°	1127.4	1125.4	1094.5	1016.8	924.1	813.4	706.7	614.0	508.4	454.6	443.6
25°	1186.2	1183.2	1135.4	1037.7	918.1	783.5	649.9	531.3	412.7	358.9	346.9
27.5°	1256.0	1248.0	1170.3	1042.7	901.1	736.7	577.2	424.6	305.0	259.2	250.2
30°	1329.8	1317.8	1207.1	1043.7	867.2	678.8	481.5	312.0	216.3	183.4	183.4
32.5°	1453.4	1412.5	1243.0	1029.7	818.4	596.1	366.8	210.3	151.5	138.6	138.6
35°	1718.5	1620.8	1299.9	1011.8	754.6	493.4	249.2	142.5	126.6	126.6	125.6
37.5°	2116.2	1934.8	1396.5	981.9	667.9	366.8	164.5	117.6	120.6	120.6	120.6
40°	2370.4	2180.0	1528.1	935.0	568.2	249.2	117.6	111.6	113.6	115.6	115.6
42.5°	2607.7	2393.4	1659.7	870.2	458.5	159.5	109.7	104.7	105.7	105.7	106.7
45°	2758.2	2551.9	1757.4	801.4	337.9	113.6	107.7	98.7	95.7	95.7	97.7
47.5°	2897.8	2655.5	1800.3	710.7	218.3	106.7	102.7	91.7	87.7	86.7	86.7
50°	3037.3	2762.2	1824.2	603.1	136.6	102.7	94.7	83.7	79.7	78.7	78.7
52.5°	3099.1	2796.1	1770.4	481.5	101.7	98.7	88.7	76.8	70.8	70.8	70.8
55°	3163.9	2858.9	1679.6	344.9	96.7	91.7	81.7	68.8	63.8	65.8	65.8
57.5°	3235.7	2814.0	1583.0	224.3	95.7	82.7	72.8	61.8	57.8	59.8	60.8
60°	3213.7	2825.0	1444.4	150.5	91.7	75.8	65.8	54.8	51.8	51.8	51.8
62.5°	3213.7	2740.3	1217.1	114.6	83.7	69.8	60.8	50.8	45.9	43.9	41.9
65°	3129.0	2539.9	889.2	99.7	74.8	64.8	54.8	44.9	38.9	35.9	34.9
67.5°	2872.8	2208.0	357.9	90.7	68.8	59.8	50.8	40.9	33.9	29.9	28.9
70°	2442.2	1629.8	102.7	80.7	69.8	55.8	47.8	35.9	29.9	24.9	23.9
72.5°	1810.2	861.3	83.7	63.8	61.8	47.8	44.9	33.9	25.9	20.9	19.9
75°	914.1	117.6	71.8	45.9	47.8	49.8	42.9	29.9	23.9	16.9	15.9
77.5°	94.7	69.8	62.8	30.9	33.9	34.9	36.9	27.9	20.9	14.0	13.0
80°	58.8	52.8	61.8	26.9	19.9	23.9	24.9	21.9	16.9	11.0	11.0
82.5°	41.9	44.9	45.9	16.9	15.0	14.0	13.0	13.0	15.0	10.0	10.0
85°	28.9	29.9	18.9	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)