

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: P157363

Luminaire Tested: **VST-F06-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157363
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13372.6 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

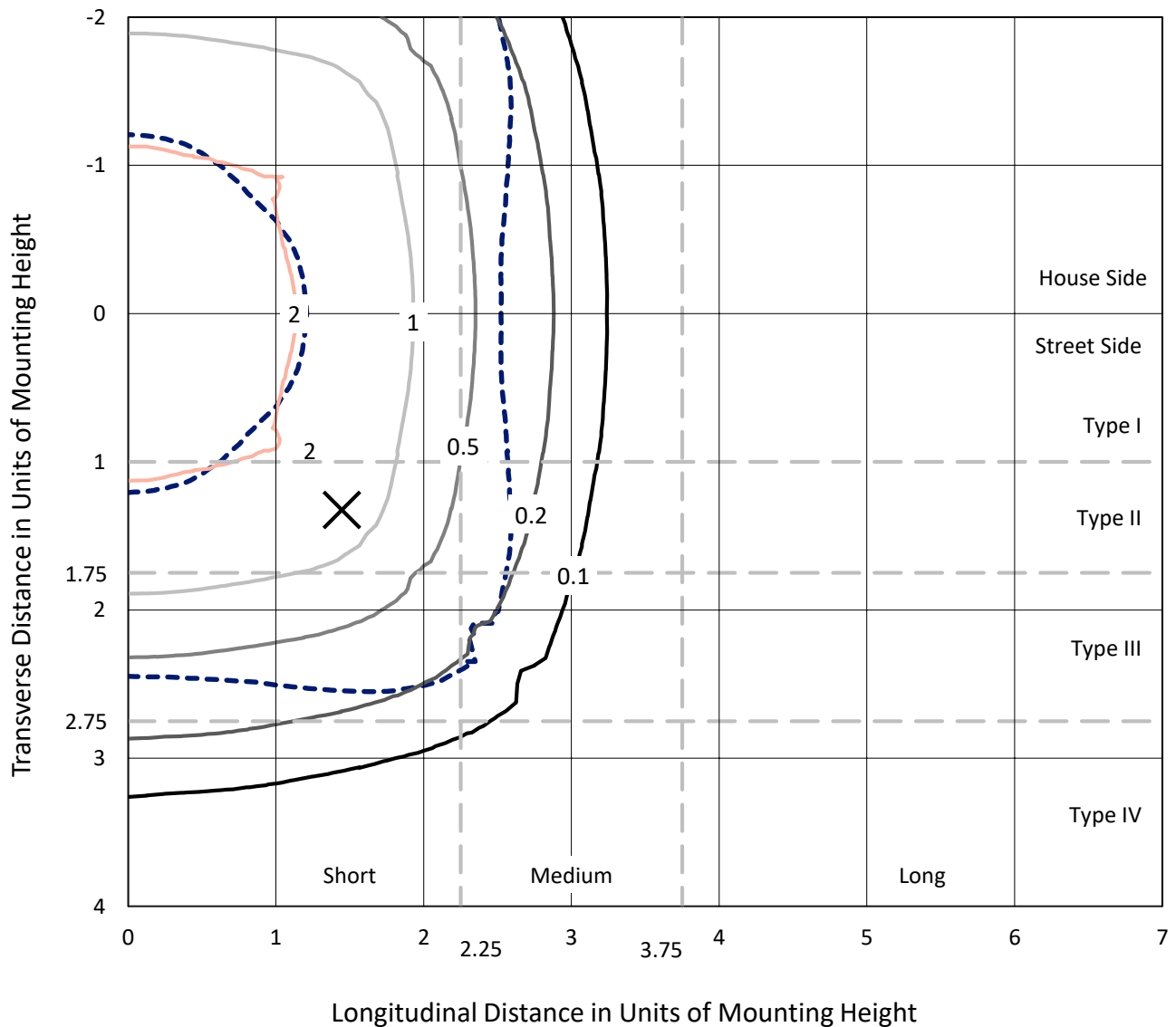
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P157363
 CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

Iso-Footcandle Lines of Horizontal Illumination

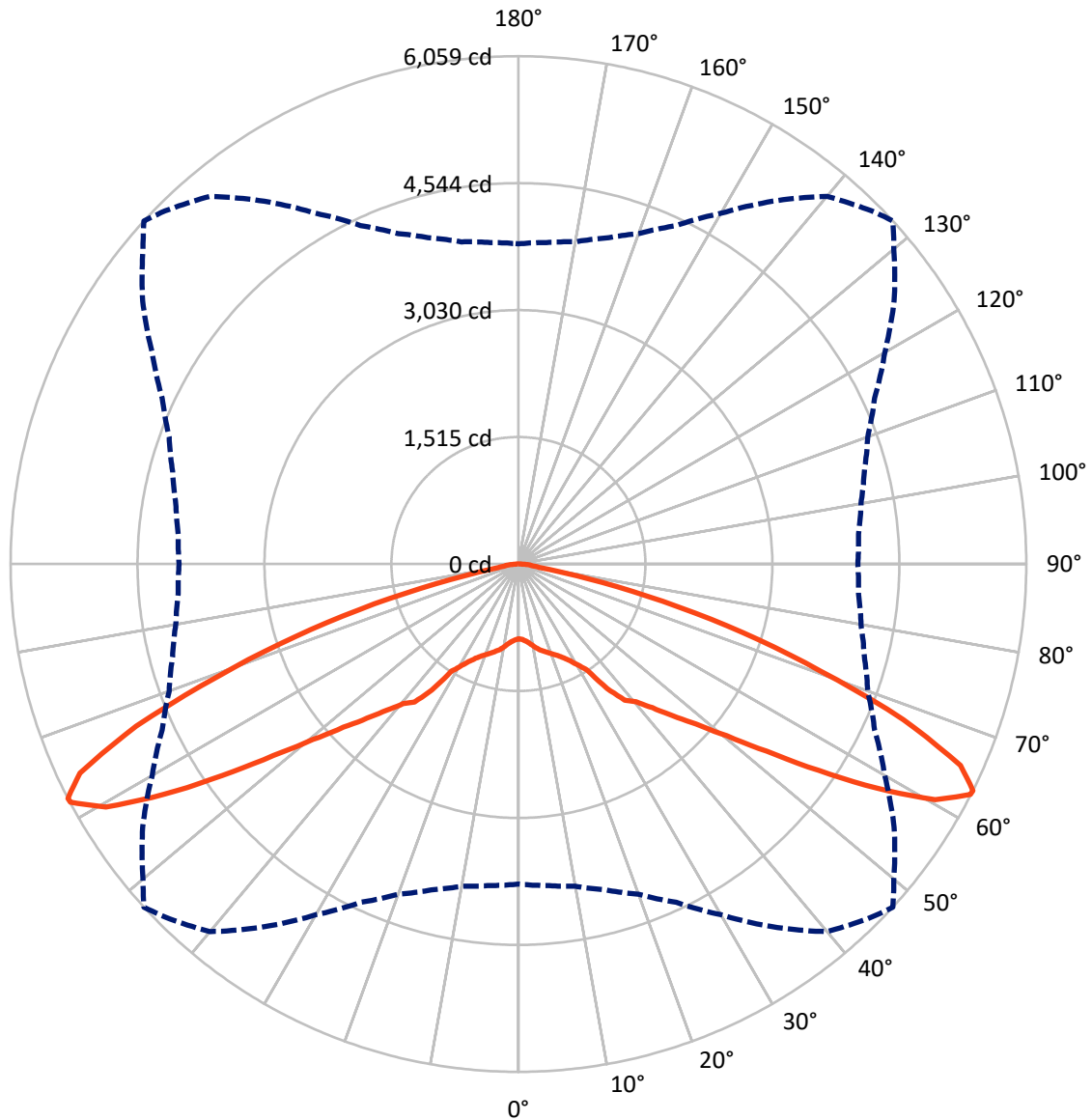
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157363
CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P157363

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

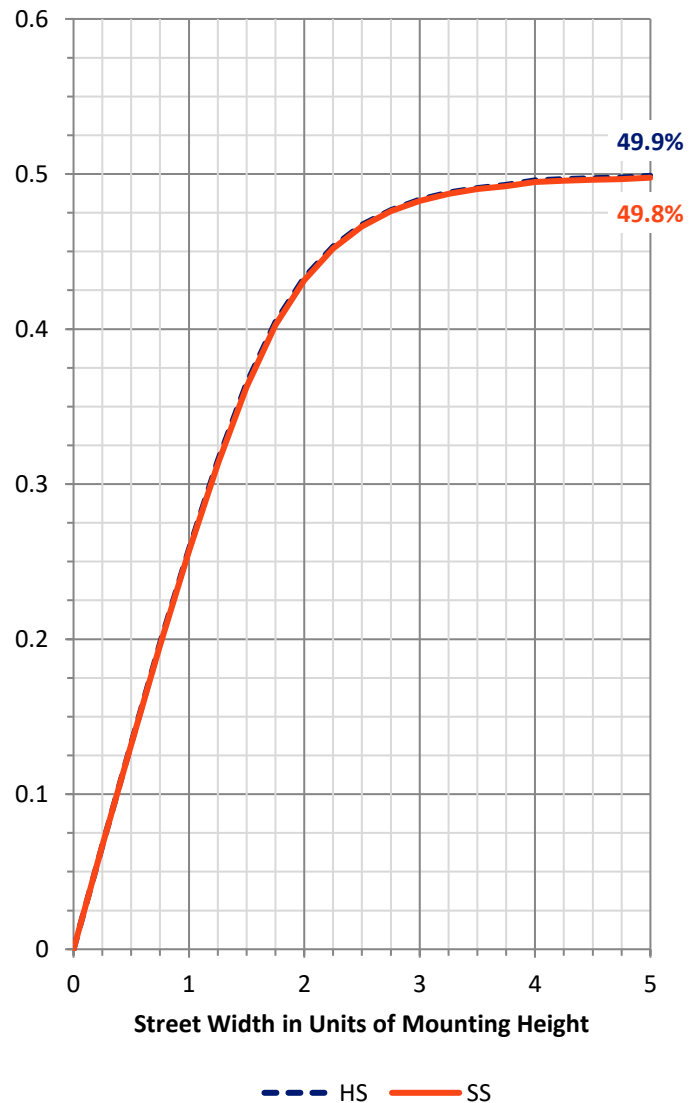
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6686.3	0.0	6686.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6686.3	0.0	6686.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	13372.6	0.0	13372.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.7
10°-20°	304.7	2.3
20°-30°	582.9	4.4
30°-40°	1115.0	8.3
40°-50°	1929.3	14.4
50°-60°	3465.0	25.9
60°-70°	4213.5	31.5
70°-80°	1521.7	11.4
80°-90°	150.7	1.1
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°	13372.6	100.0
0°-180°	13372.6	100.0

Coefficient of Utilization



REPORT NUMBER: P157363

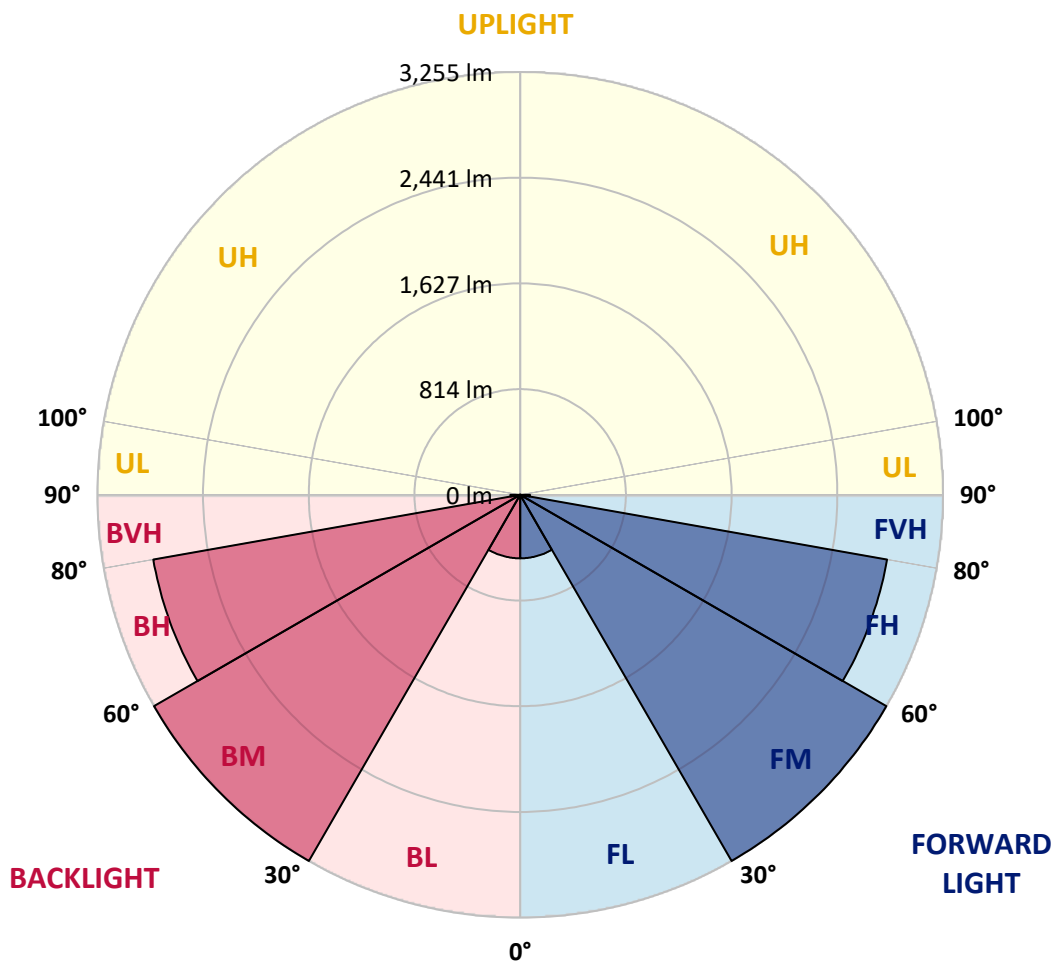
CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.6	3.7			
FM	(30°-60°)	3254.7	24.3			
FH	(60°-80°)	2867.6	21.4			G2/5000
FVH	(80°-90°)	75.4	0.6			G1/100
BL	(0°-30°)	488.6	3.7	B1/500		
BM	(30°-60°)	3254.7	24.3	B3/5000		
BH	(60°-80°)	2867.6	21.4	B4/5000		G2/5000
BVH	(80°-90°)	75.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P157363
 CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	898.8	897.1	898.0	898.8	898.0	897.1	897.1	897.1	898.8	897.1	901.3
5°	916.3	914.7	915.5	915.5	915.5	913.8	913.8	913.8	913.0	913.8	923.0
7.5°	949.8	947.3	946.4	948.1	946.4	945.6	944.8	944.8	943.1	943.1	954.8
10°	989.9	986.6	988.2	989.1	986.6	984.9	984.9	984.9	982.4	981.6	996.6
12.5°	1034.2	1032.6	1032.6	1030.9	1030.1	1028.4	1027.5	1028.4	1025.0	1025.0	1040.1
15°	1076.9	1073.5	1074.4	1071.9	1070.2	1068.5	1067.7	1066.8	1065.2	1065.2	1074.4
17.5°	1116.2	1113.7	1112.8	1110.3	1107.8	1105.3	1103.6	1102.8	1100.3	1100.3	1108.6
20°	1157.1	1154.6	1153.0	1148.8	1144.6	1142.1	1138.7	1137.1	1133.7	1134.6	1143.8
22.5°	1204.0	1199.8	1196.4	1193.1	1185.6	1180.5	1176.4	1173.0	1171.4	1171.4	1183.9
25°	1266.7	1264.2	1259.1	1248.3	1239.1	1231.5	1224.9	1221.5	1218.2	1216.5	1235.7
27.5°	1343.6	1341.1	1334.4	1323.5	1311.0	1298.4	1290.9	1285.1	1280.9	1278.4	1306.0
30°	1445.6	1441.4	1435.6	1418.0	1407.1	1387.9	1379.5	1371.2	1362.0	1364.5	1397.1
32.5°	1645.4	1639.6	1621.2	1601.9	1568.5	1542.6	1515.8	1495.8	1476.5	1474.0	1509.1
35°	1826.8	1824.3	1821.0	1807.6	1795.1	1779.2	1766.6	1745.7	1728.2	1724.0	1822.7
37.5°	1924.7	1930.5	1925.5	1923.8	1923.8	1931.4	1954.8	1978.2	1994.9	2004.9	2060.1
40°	2074.3	2074.3	2068.5	2065.1	2058.4	2068.5	2078.5	2096.1	2103.6	2104.4	2160.4
42.5°	2244.0	2244.9	2239.0	2229.0	2225.7	2234.8	2248.2	2264.9	2275.0	2277.5	2342.7
45°	2433.0	2430.5	2425.5	2422.1	2424.6	2433.0	2448.9	2481.5	2496.5	2508.2	2579.3
47.5°	2637.8	2654.6	2640.3	2642.9	2642.9	2668.8	2704.7	2731.5	2755.7	2778.3	2853.6
50°	2906.2	2908.7	2911.2	2918.8	2923.8	2958.1	3003.2	3035.0	3070.1	3099.4	3222.3
52.5°	3264.9	3259.9	3272.4	3280.8	3309.2	3327.6	3402.9	3443.0	3491.5	3529.1	3708.9
55°	3693.8	3691.3	3709.7	3716.4	3754.0	3799.2	3882.8	3970.6	4053.3	4099.3	4345.1
57.5°	4001.5	4008.2	4040.0	4084.3	4157.8	4254.0	4378.6	4572.5	4729.7	4779.9	5050.8
60°	4069.2	4091.0	4138.6	4227.2	4353.5	4532.4	4777.4	5074.2	5361.8	5457.9	5712.1
62.5°	3879.4	3904.5	3974.7	4080.9	4245.6	4510.7	4864.3	5283.2	5710.4	5924.5	6052.4
63°	3819.2	3850.2	3902.8	4025.7	4193.0	4454.6	4830.9	5282.4	5725.5	5958.8	6059.1
65°	3536.6	3542.5	3621.1	3744.0	3932.1	4203.8	4583.4	5105.1	5596.7	5866.0	5796.6
67.5°	3043.3	3067.6	3133.6	3257.4	3440.5	3723.1	4135.3	4617.7	5049.9	5264.8	4954.6
70°	2458.9	2457.2	2539.2	2638.7	2800.0	3048.4	3409.5	3845.1	4187.9	4344.3	3825.1
72.5°	1756.6	1713.1	1773.3	1883.7	2015.8	2213.9	2499.9	2838.5	3145.3	3280.8	2796.7
75°	800.1	788.4	841.9	951.5	1085.2	1261.6	1496.6	1789.2	2083.5	2242.4	1781.7
77.5°	269.2	272.6	293.5	332.8	404.7	493.3	639.6	826.9	1065.2	1222.4	836.1
80°	180.6	185.6	192.3	198.2	206.5	219.9	251.7	300.2	373.7	452.3	264.2
82.5°	148.0	153.8	168.9	175.6	180.6	184.8	187.3	190.6	190.6	192.3	167.2
85°	106.2	116.2	136.3	148.8	153.8	157.2	161.4	166.4	158.9	152.2	129.6
87.5°	36.8	50.2	73.6	81.1	87.0	87.8	93.6	103.7	98.7	80.3	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157363

CATALOG NUMBER: VST-F06-LED-E-U-5MQ-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	897.1	896.3	897.1	898.0	898.0	898.0	898.8	899.6	899.6
5°	913.8	914.7	913.8	914.7	914.7	915.5	915.5	917.2	917.2
7.5°	942.3	943.9	943.1	944.8	944.8	946.4	945.6	948.1	948.1
10°	980.7	982.4	984.1	984.9	984.1	985.7	987.4	988.2	987.4
12.5°	1024.2	1025.0	1024.2	1025.9	1025.9	1027.5	1027.5	1030.1	1030.1
15°	1064.3	1063.5	1062.7	1065.2	1066.8	1067.7	1069.3	1071.9	1069.3
17.5°	1100.3	1101.1	1099.4	1102.0	1105.3	1107.8	1109.5	1112.8	1112.0
20°	1136.2	1134.6	1136.2	1140.4	1143.8	1147.1	1150.4	1155.5	1154.6
22.5°	1171.4	1173.0	1177.2	1180.5	1186.4	1191.4	1195.6	1202.3	1204.8
25°	1220.7	1220.7	1227.4	1231.5	1239.9	1246.6	1255.8	1263.3	1267.5
27.5°	1283.4	1283.4	1290.9	1300.1	1312.6	1324.4	1334.4	1344.4	1342.7
30°	1368.7	1372.8	1379.5	1391.2	1408.0	1422.2	1435.6	1445.6	1446.4
32.5°	1480.7	1485.7	1505.8	1535.9	1571.0	1597.8	1617.8	1642.1	1645.4
35°	1734.9	1747.4	1773.3	1797.6	1811.8	1827.7	1837.7	1838.5	1840.2
37.5°	2002.4	1980.7	1960.6	1942.2	1933.9	1932.2	1932.2	1935.5	1937.2
40°	2100.2	2089.4	2080.2	2068.5	2071.8	2071.0	2076.8	2081.8	2085.2
42.5°	2267.5	2259.1	2250.7	2235.7	2244.0	2241.5	2249.9	2257.4	2261.6
45°	2500.7	2474.8	2456.4	2432.2	2440.5	2435.5	2435.5	2444.7	2446.4
47.5°	2758.2	2728.1	2690.5	2660.4	2650.4	2641.2	2649.5	2649.5	2640.3
50°	3066.8	3030.8	2986.5	2938.0	2921.3	2912.1	2915.4	2919.6	2893.7
52.5°	3485.6	3445.5	3382.8	3309.2	3293.3	3285.8	3284.1	3278.3	3271.6
55°	4053.3	3978.1	3901.2	3804.2	3774.9	3766.6	3767.4	3760.7	3776.6
57.5°	4723.0	4612.7	4435.4	4317.5	4247.3	4220.5	4196.3	4186.3	4187.1
60°	5386.0	5161.1	4896.1	4690.4	4543.3	4449.6	4376.1	4335.1	4323.4
62.5°	5813.3	5459.6	5061.6	4728.0	4486.4	4331.7	4215.5	4142.0	4118.5
63°	5846.7	5472.2	5046.6	4688.8	4434.6	4272.4	4150.3	4074.2	4049.1
65°	5774.0	5345.9	4850.1	4423.7	4145.3	3965.5	3833.4	3761.5	3742.3
67.5°	5208.8	4852.6	4347.6	3907.0	3626.1	3443.8	3292.5	3223.9	3202.2
70°	4237.3	3993.1	3579.3	3203.0	2941.3	2765.8	2612.8	2555.9	2555.1
72.5°	3141.2	2824.3	2577.6	2301.7	2073.5	1933.9	1800.9	1737.4	1705.6
75°	2077.7	1738.2	1462.3	1229.9	1002.5	877.1	727.4	663.0	625.4
77.5°	1046.8	775.9	556.0	385.4	299.3	245.8	224.9	214.0	213.2
80°	348.6	261.7	224.9	210.7	206.5	207.3	204.8	200.7	195.6
82.5°	193.1	203.2	204.8	199.0	199.0	195.6	192.3	176.4	168.1
85°	165.5	182.3	183.9	180.6	179.8	174.7	168.9	147.2	134.6
87.5°	103.7	119.6	117.1	104.5	115.4	107.9	102.0	66.1	48.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)