

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: INVUE

Report Number: P180003

Luminaire Tested: **ICM-F05-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180003
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-5MQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12378.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

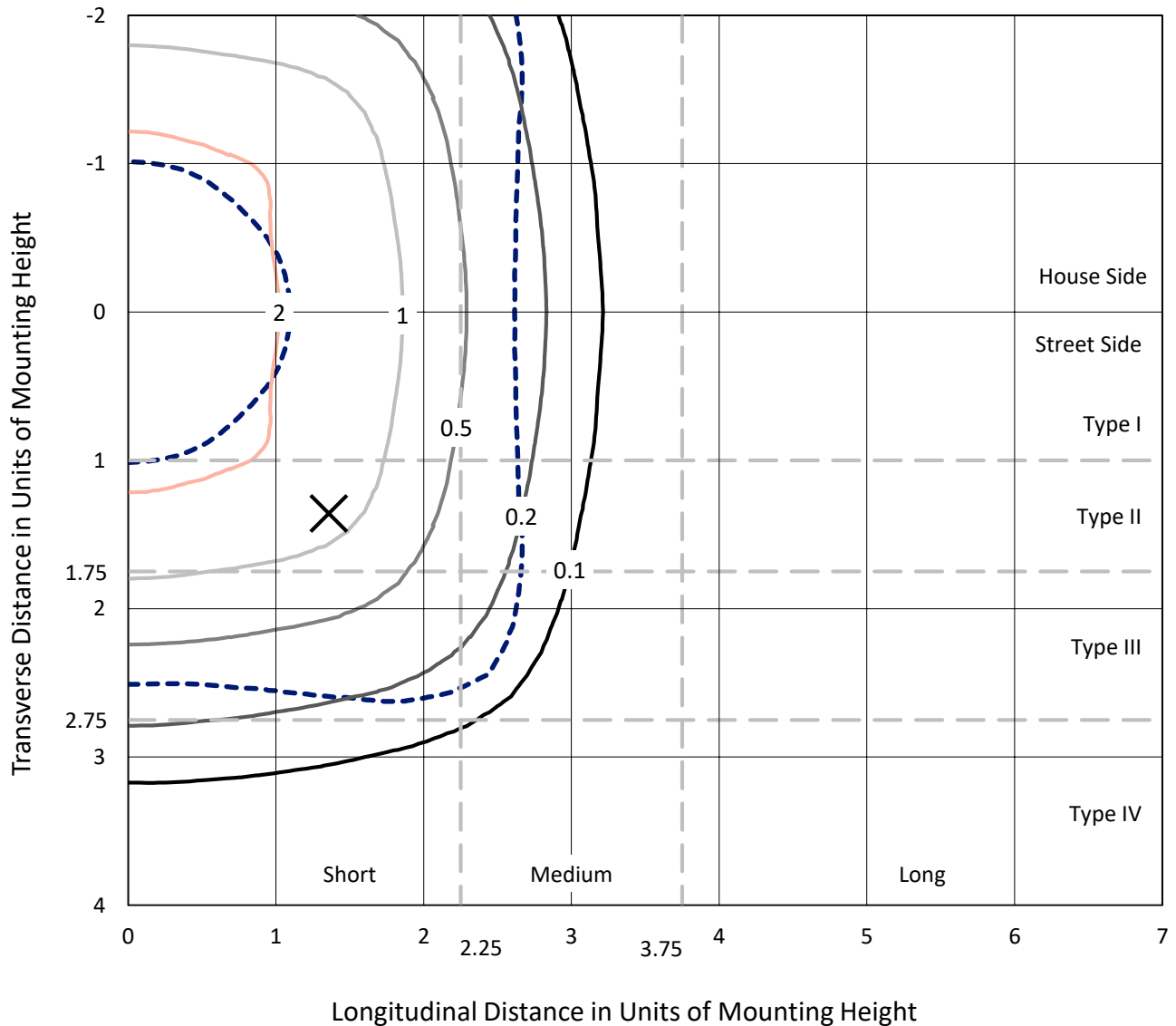
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

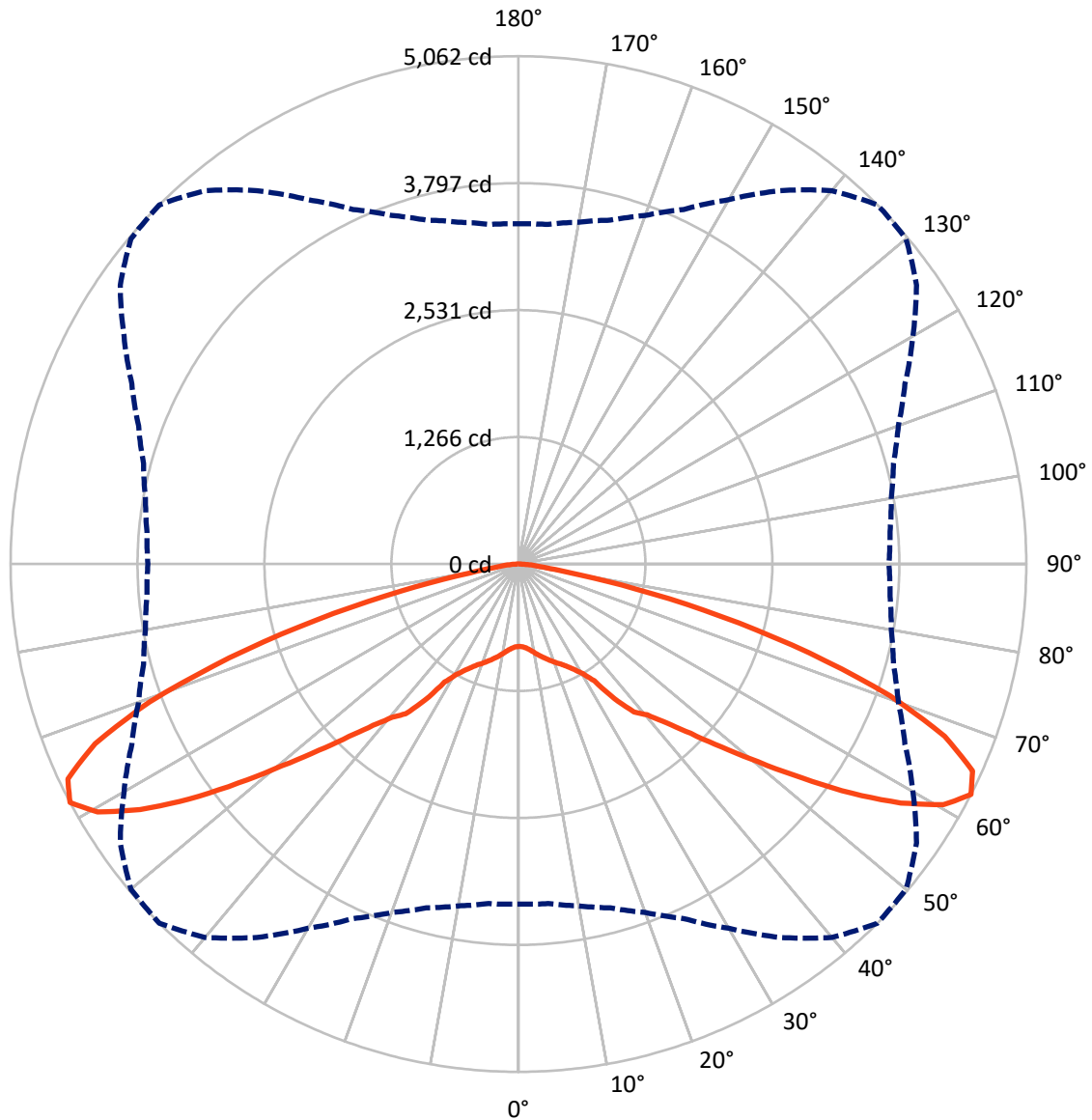
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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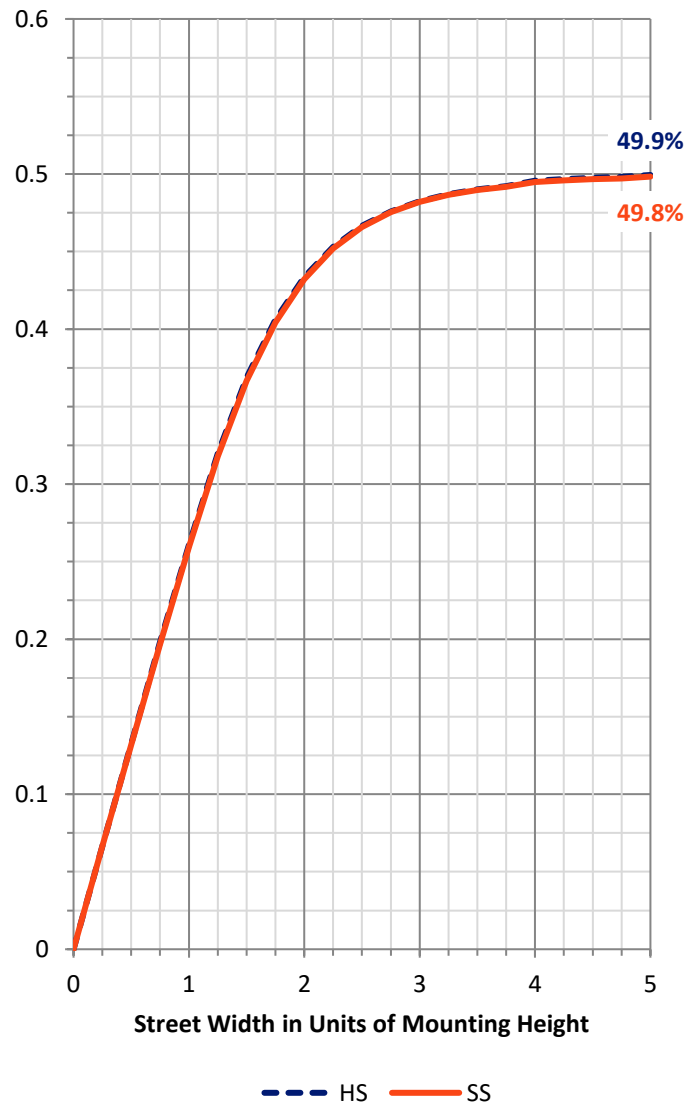
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6189.1	0.0	6189.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6189.1	0.0	6189.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12378.2	0.0	12378.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	0.7
10°-20°	278.4	2.2
20°-30°	538.2	4.3
30°-40°	1042.0	8.4
40°-50°	1881.5	15.2
50°-60°	3271.7	26.4
60°-70°	3714.2	30.0
70°-80°	1440.0	11.6
80°-90°	129.9	1.0
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°	12378.2	100.0
0°-180°	12378.2	100.0



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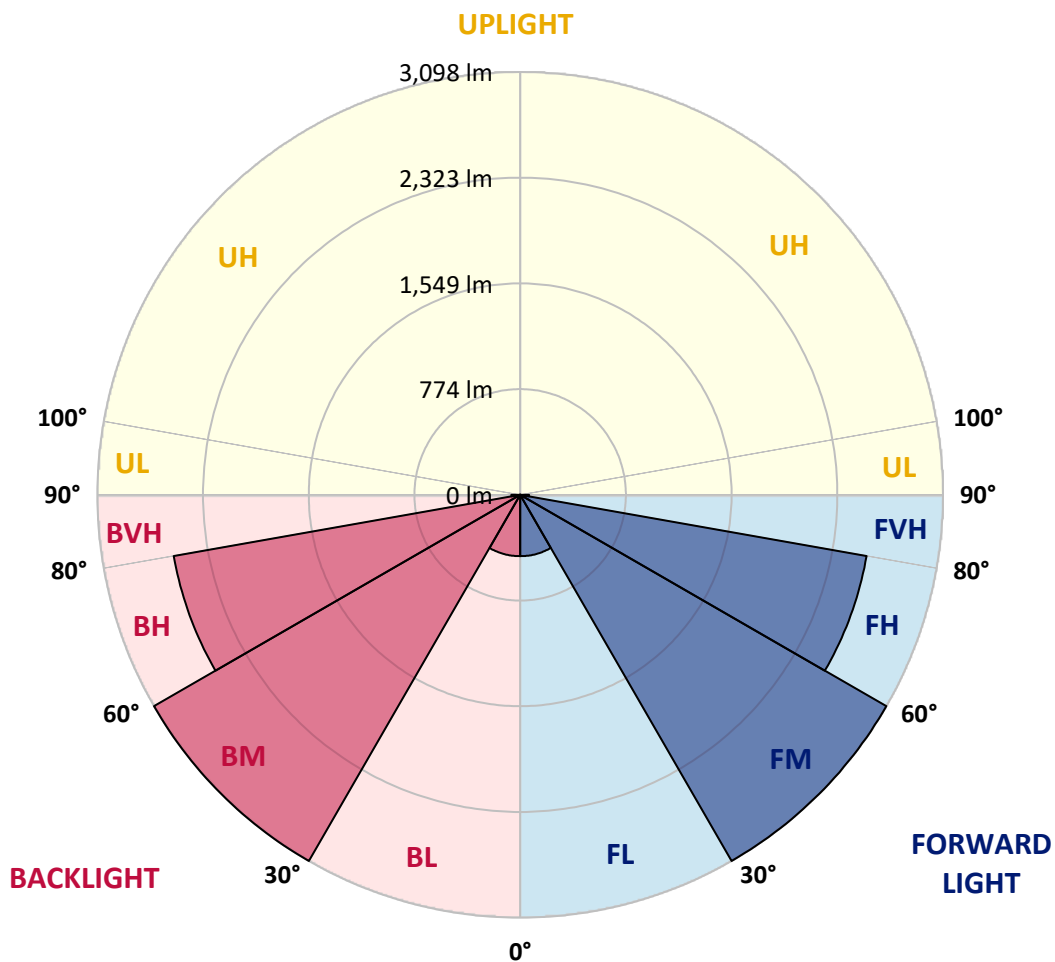
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.4	3.6			
FM	(30°-60°)	3097.6	25.0			
FH	(60°-80°)	2577.1	20.8			G2/5000
FVH	(80°-90°)	65.0	0.5			G1/100
BL	(0°-30°)	449.4	3.6	B1/500		
BM	(30°-60°)	3097.6	25.0	B3/5000		
BH	(60°-80°)	2577.1	20.8	B4/5000		G2/5000
BVH	(80°-90°)	65.0	0.5			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	826.8	829.4	828.7	827.4	827.4	827.4	826.8	824.9	824.2	825.5	826.8
5°	846.0	846.0	846.0	846.0	844.7	844.7	843.4	842.2	842.8	841.5	840.9
7.5°	875.4	873.5	873.5	872.9	872.9	871.6	869.7	867.2	867.7	867.2	866.4
10°	910.0	910.6	908.7	910.7	907.4	906.8	904.3	903.0	902.3	900.5	900.5
12.5°	951.6	949.7	949.7	948.4	947.2	945.9	942.0	941.4	938.8	937.5	935.6
15°	990.6	990.0	987.4	984.8	984.2	983.0	978.4	975.9	975.3	972.1	969.5
17.5°	1029.7	1028.4	1025.2	1023.9	1021.4	1019.4	1015.6	1011.7	1009.9	1008.6	1005.4
20°	1071.3	1070.0	1066.8	1064.2	1061.0	1058.4	1052.8	1049.5	1047.6	1045.7	1043.2
22.5°	1123.1	1120.6	1115.4	1110.9	1103.9	1101.4	1093.7	1089.1	1086.0	1083.4	1082.1
25°	1179.4	1180.1	1173.0	1167.3	1158.9	1151.8	1142.3	1137.1	1134.0	1131.4	1130.8
27.5°	1249.9	1250.4	1244.1	1235.7	1222.9	1215.3	1202.4	1196.1	1194.1	1191.5	1190.9
30°	1361.1	1355.4	1344.6	1331.2	1319.6	1302.9	1284.4	1278.0	1271.6	1269.6	1269.6
32.5°	1566.0	1562.8	1553.8	1520.6	1505.1	1470.6	1438.0	1419.4	1398.3	1388.1	1381.6
35°	1709.2	1708.0	1701.0	1689.5	1679.8	1672.8	1653.6	1650.4	1646.5	1646.5	1651.7
37.5°	1814.9	1807.2	1806.0	1807.8	1805.3	1806.5	1822.0	1843.0	1861.0	1870.0	1868.7
40°	1971.0	1960.2	1966.5	1962.1	1956.3	1955.0	1960.2	1968.5	1976.8	1976.8	1974.9
42.5°	2175.2	2180.3	2182.9	2164.3	2152.2	2148.9	2161.1	2158.5	2166.9	2163.7	2155.4
45°	2478.5	2475.3	2470.8	2448.4	2429.2	2413.9	2417.1	2412.7	2413.2	2408.1	2401.8
47.5°	2784.4	2795.3	2776.8	2765.9	2744.1	2733.2	2742.2	2734.4	2749.2	2722.3	2709.6
50°	3081.3	3089.0	3082.6	3067.3	3067.3	3082.6	3093.5	3107.6	3128.0	3097.3	3051.3
52.5°	3324.5	3331.0	3340.5	3353.3	3384.7	3417.3	3463.4	3512.7	3551.6	3545.9	3493.4
55°	3473.0	3480.7	3496.7	3540.9	3597.1	3682.9	3787.2	3901.8	3991.3	4034.8	3996.5
57.5°	3522.9	3528.6	3572.1	3625.3	3713.0	3840.3	4015.0	4212.8	4385.0	4494.4	4477.1
60°	3511.5	3511.4	3555.6	3628.5	3751.4	3920.3	4167.3	4441.2	4705.0	4868.7	4844.4
62.5°	3390.4	3396.9	3460.1	3547.8	3696.4	3898.5	4193.0	4543.0	4858.4	5062.0	5042.2
65°	3125.5	3130.0	3198.4	3302.7	3468.5	3707.8	4029.7	4417.5	4779.1	4974.9	4937.8
67.5°	2697.3	2701.8	2757.6	2875.3	3050.6	3300.9	3648.4	4075.2	4429.1	4583.9	4472.6
70°	2145.7	2158.5	2194.3	2319.2	2452.3	2697.4	3017.3	3444.2	3778.3	3924.9	3801.9
72.5°	1462.2	1494.9	1538.4	1649.1	1776.5	1980.0	2234.6	2594.3	2862.4	3032.0	2922.6
75°	823.6	869.7	883.2	967.0	1071.9	1232.6	1418.8	1676.7	1947.4	2084.9	1953.1
77.5°	355.8	393.6	410.2	449.3	531.2	598.3	711.6	885.7	1094.9	1191.6	1033.5
80°	175.3	184.4	191.4	203.5	226.6	248.3	302.1	378.2	464.0	485.7	386.6
82.5°	135.6	142.0	154.2	163.9	169.6	175.3	180.5	190.7	199.1	203.5	192.0
85°	95.3	103.6	117.1	128.0	134.4	138.8	143.3	146.6	138.8	126.7	133.1
87.5°	24.9	32.7	45.4	49.3	55.6	58.9	57.6	59.5	53.8	39.1	43.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	826.1	825.5	826.1	826.1	826.2	825.5	825.5	825.5
5°	840.9	840.9	841.5	840.3	840.2	840.9	840.2	839.6
7.5°	865.9	865.2	865.2	864.6	865.2	864.6	864.6	863.9
10°	899.2	897.9	898.4	896.6	896.6	896.0	895.9	895.9
12.5°	935.0	933.0	933.7	931.7	928.6	929.1	929.9	929.2
15°	969.5	967.6	965.7	964.5	962.4	963.2	963.2	962.5
17.5°	1004.8	1000.9	1000.2	998.3	997.7	997.7	997.7	998.3
20°	1041.2	1038.7	1038.0	1036.1	1035.4	1037.4	1038.0	1036.8
22.5°	1080.2	1078.9	1080.2	1078.9	1080.9	1082.1	1082.8	1081.5
25°	1129.5	1128.2	1130.1	1134.6	1137.2	1138.4	1141.7	1140.4
27.5°	1192.8	1191.5	1196.1	1202.4	1206.3	1212.7	1215.9	1217.2
30°	1274.8	1280.6	1283.1	1295.9	1298.4	1308.7	1308.7	1313.1
32.5°	1393.8	1404.7	1423.8	1443.6	1471.3	1491.0	1491.1	1501.3
35°	1654.9	1659.4	1674.1	1677.3	1683.1	1689.5	1683.0	1688.2
37.5°	1855.3	1835.4	1821.2	1801.5	1789.3	1789.2	1790.5	1789.3
40°	1957.6	1950.0	1943.5	1926.9	1924.3	1923.6	1923.7	1926.2
42.5°	2140.7	2122.1	2111.8	2097.7	2093.2	2092.0	2091.4	2092.7
45°	2378.6	2348.7	2321.0	2307.0	2294.9	2283.4	2287.2	2287.2
47.5°	2655.8	2609.0	2564.3	2539.9	2518.9	2509.2	2502.8	2500.9
50°	2993.0	2927.7	2870.2	2824.7	2794.1	2793.3	2796.5	2776.1
52.5°	3406.4	3303.4	3231.7	3170.3	3141.5	3138.3	3128.0	3116.6
55°	3864.6	3742.3	3624.0	3558.2	3520.4	3499.9	3487.7	3468.5
57.5°	4337.0	4172.5	4002.3	3896.6	3830.2	3784.0	3759.7	3748.8
60°	4701.1	4476.4	4251.8	4082.3	3971.6	3903.1	3860.9	3843.6
62.5°	4844.4	4539.7	4251.7	4029.0	3869.0	3774.3	3717.4	3692.5
65°	4673.5	4312.6	3985.0	3739.2	3560.7	3455.1	3393.0	3366.2
67.5°	4196.1	3877.4	3521.0	3276.5	3092.9	2988.5	2921.3	2901.5
70°	3517.8	3192.0	2851.6	2633.3	2469.6	2384.4	2314.6	2306.3
72.5°	2643.6	2362.7	2070.9	1890.4	1758.5	1617.8	1582.0	1599.8
75°	1694.5	1431.5	1171.7	1009.1	888.9	754.5	702.7	715.4
77.5°	802.5	621.4	448.6	346.8	291.2	248.9	238.1	231.6
80°	297.6	241.3	213.0	202.2	194.5	187.5	182.3	176.7
82.5°	192.7	188.1	182.3	180.5	174.7	165.7	149.1	142.0
85°	144.0	144.0	136.4	136.9	132.5	120.9	105.6	97.3
87.5°	42.2	37.8	34.6	32.0	31.3	28.1	20.5	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)