

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: P180013

Luminaire Tested: **ICM-F06-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180013
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-F06-LED-E1-5MQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14853.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

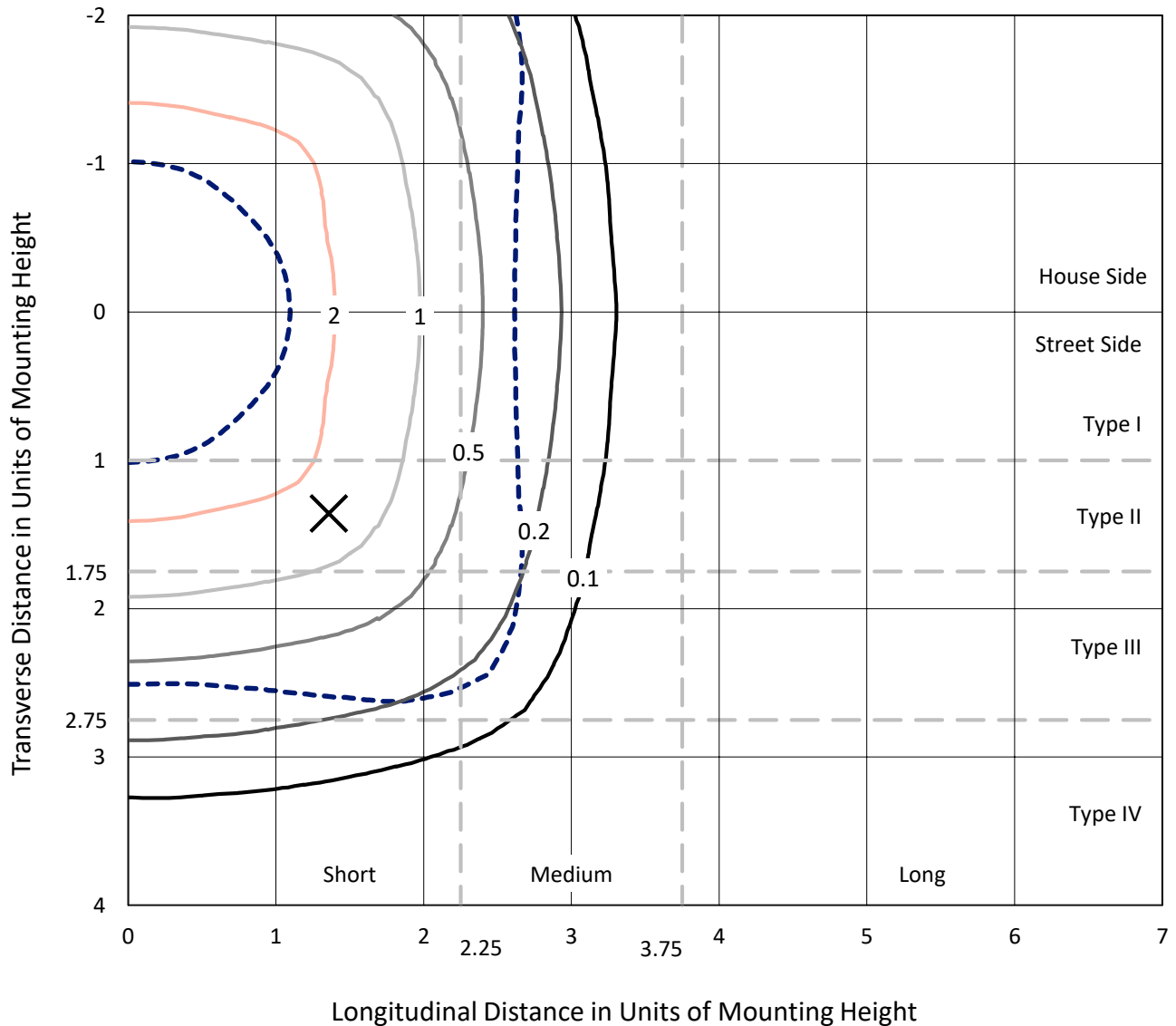
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180013
 CATALOG NUMBER: ICM-F06-LED-E1-5MQ

Iso-Footcandle Lines of Horizontal Illumination

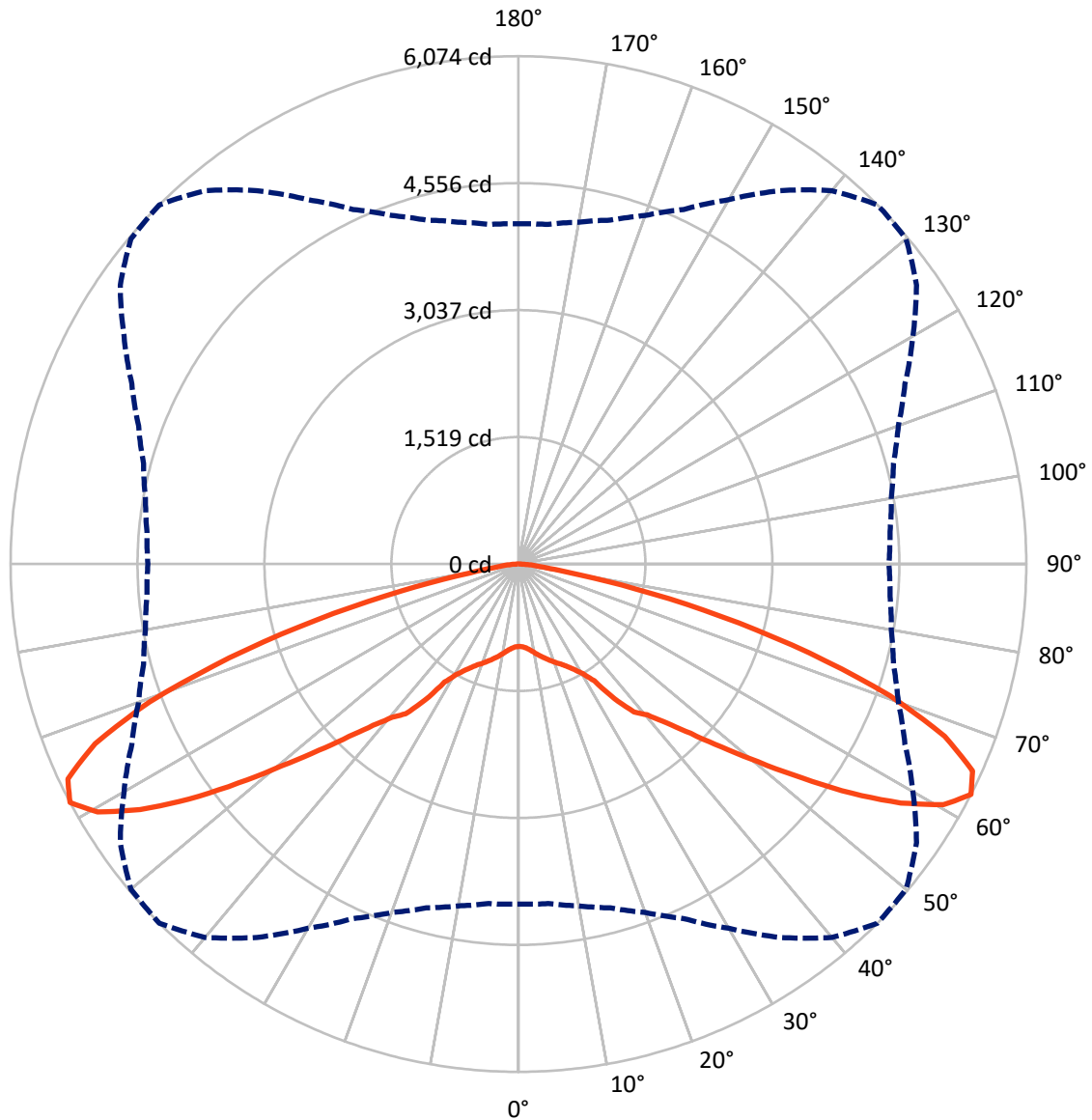
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P180013
CATALOG NUMBER: ICM-F06-LED-E1-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180013

CATALOG NUMBER: ICM-F06-LED-E1-5MQ

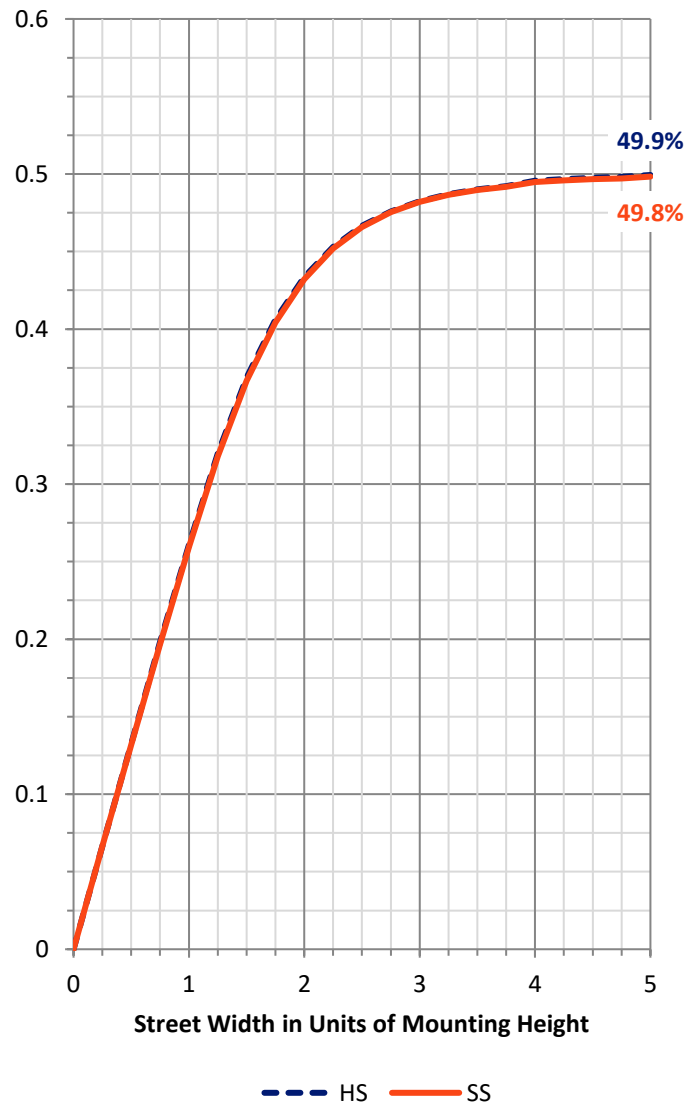
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7426.9	0.0	7426.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7426.9	0.0	7426.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14853.9	0.0	14853.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	0.7
10°-20°	334.0	2.2
20°-30°	645.8	4.3
30°-40°	1250.5	8.4
40°-50°	2257.8	15.2
50°-60°	3926.0	26.4
60°-70°	4457.1	30.0
70°-80°	1728.0	11.6
80°-90°	155.9	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°	14853.9	100.0
0°-180°	14853.9	100.0



REPORT NUMBER: P180013

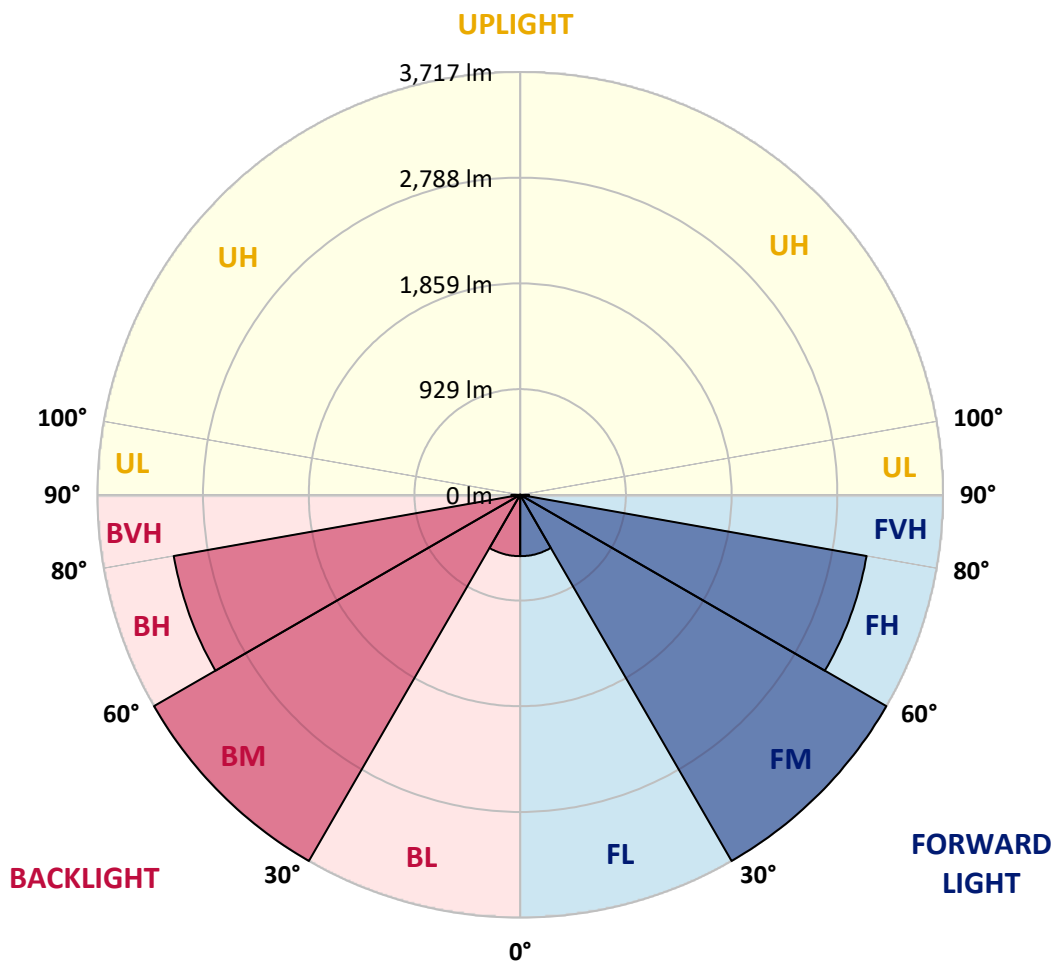
CATALOG NUMBER: ICM-F06-LED-E1-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.3	3.6			
FM (30°-60°)	3717.1	25.0			
FH (60°-80°)	3092.5	20.8			G2/5000
FVH (80°-90°)	77.9	0.5			G1/100
BL (0°-30°)	539.3	3.6	B2/1000		
BM (30°-60°)	3717.1	25.0	B3/5000		
BH (60°-80°)	3092.5	20.8	B4/5000		G2/5000
BVH (80°-90°)	77.9	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





REPORT NUMBER: P180013

CATALOG NUMBER: ICM-F06-LED-E1-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1
2.5°	992.2	995.3	994.5	992.9	992.9	992.9	992.2	989.9	989.0	990.7	992.2
5°	1015.3	1015.3	1015.3	1015.3	1013.7	1013.7	1012.2	1010.6	1011.4	1009.9	1009.1
7.5°	1050.5	1048.2	1048.2	1047.4	1047.4	1046.0	1043.6	1040.6	1041.3	1040.6	1039.8
10°	1092.0	1092.8	1090.4	1092.8	1088.9	1088.2	1085.0	1083.5	1082.8	1080.5	1080.5
12.5°	1142.0	1139.6	1139.6	1138.1	1136.6	1135.0	1130.4	1129.7	1126.6	1125.0	1122.8
15°	1188.8	1188.0	1184.9	1181.9	1181.0	1179.5	1174.1	1171.1	1170.3	1166.5	1163.4
17.5°	1235.5	1234.1	1230.2	1228.7	1225.6	1223.4	1218.7	1214.1	1211.7	1210.3	1206.4
20°	1285.6	1283.9	1280.2	1277.0	1273.2	1270.1	1263.3	1259.4	1257.1	1254.8	1251.7
22.5°	1347.7	1344.7	1338.5	1333.1	1324.7	1321.7	1312.4	1307.1	1303.2	1300.1	1298.5
25°	1415.3	1416.0	1407.6	1400.8	1390.7	1382.3	1370.8	1364.7	1360.8	1357.7	1356.9
27.5°	1499.7	1500.6	1492.8	1482.9	1467.5	1458.2	1443.0	1435.3	1432.9	1429.9	1429.1
30°	1633.3	1626.4	1613.4	1597.3	1583.5	1563.5	1541.2	1533.6	1525.9	1523.6	1523.5
32.5°	1879.1	1875.3	1864.6	1824.6	1806.2	1764.7	1725.6	1703.3	1678.0	1665.7	1658.0
35°	2051.2	2049.7	2041.1	2027.4	2015.8	2007.4	1984.4	1980.5	1975.8	1975.8	1982.0
37.5°	2177.9	2168.6	2167.1	2169.5	2166.3	2167.8	2186.2	2211.6	2233.1	2243.9	2242.4
40°	2365.2	2352.2	2359.8	2354.5	2347.5	2346.1	2352.2	2362.2	2372.1	2372.1	2369.9
42.5°	2610.2	2616.4	2619.5	2597.2	2582.5	2578.7	2593.3	2590.2	2600.2	2596.4	2586.4
45°	2974.2	2970.3	2965.0	2938.1	2915.1	2896.6	2900.5	2895.1	2895.8	2889.7	2882.1
47.5°	3341.2	3354.3	3332.1	3319.0	3292.9	3279.8	3290.6	3281.4	3299.0	3266.8	3251.5
50°	3697.6	3706.8	3699.2	3680.8	3680.7	3699.2	3712.2	3729.1	3753.7	3716.9	3661.5
52.5°	3989.4	3997.0	4008.6	4024.0	4061.6	4100.8	4156.1	4215.2	4262.0	4255.1	4192.2
55°	4167.6	4176.8	4195.9	4249.0	4316.6	4419.5	4544.7	4682.1	4789.6	4841.9	4795.8
57.5°	4227.5	4234.4	4286.5	4350.4	4455.6	4608.4	4818.1	5055.3	5261.9	5393.1	5372.5
60°	4213.6	4213.7	4266.6	4354.2	4501.6	4704.4	5000.8	5329.5	5645.8	5842.5	5813.2
62.5°	4068.5	4076.2	4152.2	4257.4	4435.6	4678.3	5031.5	5451.6	5830.2	6074.4	6050.5
65°	3750.5	3755.9	3838.2	3963.4	4162.3	4449.4	4835.7	5301.1	5734.9	5969.9	5925.4
67.5°	3236.9	3242.3	3309.0	3450.3	3660.8	3961.0	4378.0	4890.2	5314.8	5500.7	5367.1
70°	2574.9	2590.2	2633.3	2783.0	2942.7	3236.9	3620.9	4133.0	4533.9	4709.8	4562.3
72.5°	1754.7	1793.9	1846.1	1979.0	2131.7	2375.9	2681.7	3113.2	3435.0	3638.5	3507.2
75°	988.3	1043.6	1059.7	1160.4	1286.3	1479.1	1702.5	2012.0	2336.8	2501.9	2343.7
77.5°	427.0	472.3	492.3	539.2	637.4	718.1	854.0	1062.9	1313.9	1430.0	1240.2
80°	210.4	221.2	229.6	244.3	271.8	298.0	362.4	453.9	556.7	582.9	463.8
82.5°	162.8	170.4	185.1	196.7	203.5	210.4	216.6	228.8	238.9	244.2	230.4
85°	114.4	124.5	140.6	153.6	161.3	166.7	172.0	175.8	166.6	152.0	159.7
87.5°	30.0	39.2	54.5	59.2	66.8	70.6	69.1	71.4	64.6	46.8	52.3
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: P180013

CATALOG NUMBER: ICM-F06-LED-E1-5MQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	986.1	986.1	986.1	986.1	986.1	986.1	986.1	986.1
2.5°	991.4	990.6	991.4	991.4	991.4	990.6	990.6	990.6
5°	1009.1	1009.1	1009.9	1008.3	1008.3	1009.0	1008.3	1007.5
7.5°	1039.1	1038.2	1038.2	1037.5	1038.2	1037.5	1037.5	1036.8
10°	1078.9	1077.4	1078.1	1075.9	1075.9	1075.1	1075.1	1075.1
12.5°	1122.0	1119.6	1120.4	1118.1	1114.2	1115.1	1115.8	1115.1
15°	1163.4	1161.1	1158.9	1157.2	1155.0	1155.7	1155.7	1155.0
17.5°	1205.7	1201.0	1200.3	1198.0	1197.2	1197.2	1197.2	1198.0
20°	1249.5	1246.3	1245.6	1243.3	1242.5	1244.8	1245.6	1244.1
22.5°	1296.3	1294.7	1296.3	1294.7	1297.1	1298.6	1299.4	1297.8
25°	1355.5	1353.9	1356.2	1361.5	1364.7	1366.1	1370.0	1368.5
27.5°	1431.5	1429.9	1435.3	1443.0	1447.5	1455.3	1459.1	1460.6
30°	1529.7	1536.7	1539.7	1555.0	1558.1	1570.4	1570.4	1575.8
32.5°	1672.6	1685.6	1708.7	1732.5	1765.4	1789.2	1789.2	1801.6
35°	1985.9	1991.3	2008.9	2012.8	2019.6	2027.4	2019.6	2025.8
37.5°	2226.2	2202.4	2185.5	2161.8	2147.2	2147.2	2148.8	2147.2
40°	2349.0	2339.9	2332.2	2312.2	2309.2	2308.5	2308.4	2311.5
42.5°	2568.8	2546.4	2534.2	2517.2	2511.8	2510.3	2509.6	2511.2
45°	2854.3	2818.3	2785.3	2768.4	2753.8	2740.0	2744.6	2744.6
47.5°	3187.0	3130.8	3077.0	3047.9	3022.5	3011.1	3003.4	3001.1
50°	3591.6	3513.3	3444.1	3389.6	3352.8	3352.0	3355.9	3331.3
52.5°	4087.7	3964.1	3878.1	3804.3	3769.8	3766.0	3753.7	3739.8
55°	4637.6	4490.8	4348.9	4269.7	4224.4	4199.8	4185.2	4162.2
57.5°	5204.3	5006.9	4802.6	4675.9	4596.1	4540.8	4511.7	4498.5
60°	5641.2	5371.8	5102.2	4898.6	4765.8	4683.6	4633.0	4612.2
62.5°	5813.2	5447.7	5102.2	4834.9	4642.9	4529.3	4460.9	4431.0
65°	5608.2	5175.1	4781.9	4487.0	4272.8	4146.1	4071.7	4039.4
67.5°	5035.4	4652.9	4225.1	3931.8	3711.5	3586.3	3505.6	3481.8
70°	4221.4	3830.4	3421.9	3160.0	2963.5	2861.3	2777.7	2767.6
72.5°	3172.3	2835.2	2485.0	2268.5	2110.3	1941.3	1898.3	1919.8
75°	2033.5	1717.9	1406.1	1211.0	1066.6	905.4	843.2	858.5
77.5°	963.0	745.7	538.3	416.2	349.4	298.8	285.7	278.0
80°	357.1	289.5	255.7	242.6	233.5	225.0	218.9	211.9
82.5°	231.1	225.8	218.9	216.6	209.7	198.9	179.0	170.5
85°	172.8	172.8	163.5	164.3	159.0	145.1	126.7	116.7
87.5°	50.6	45.3	41.5	38.4	37.6	33.8	24.6	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)