

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: P180083

Luminaire Tested: **ICM-F03-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180083
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7334.9 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 78.3
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

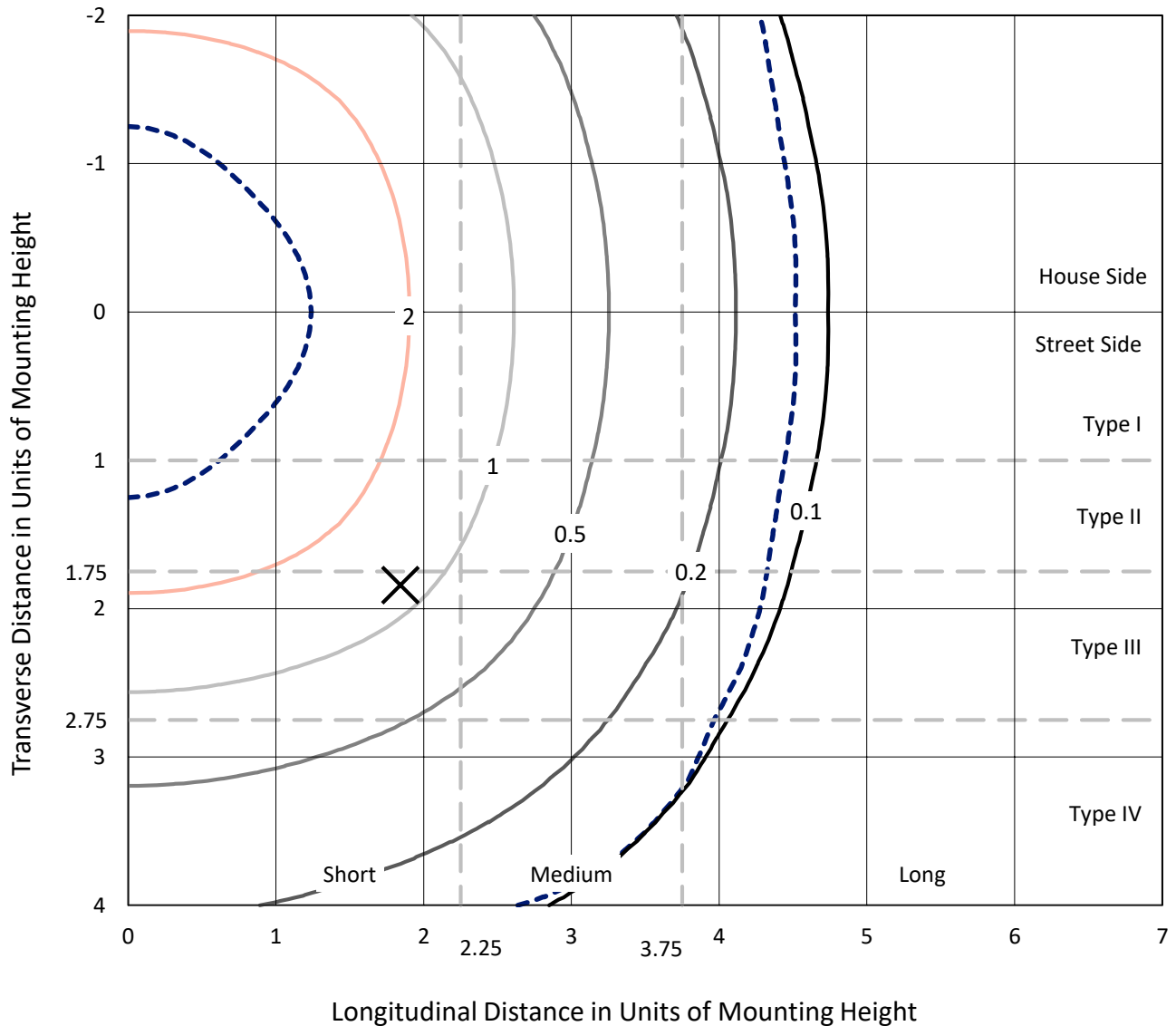


REPORT NUMBER: P180083

CATALOG NUMBER: ICM-F03-LED-E1-5WQ

Iso-Footcandle Lines of Horizontal Illumination

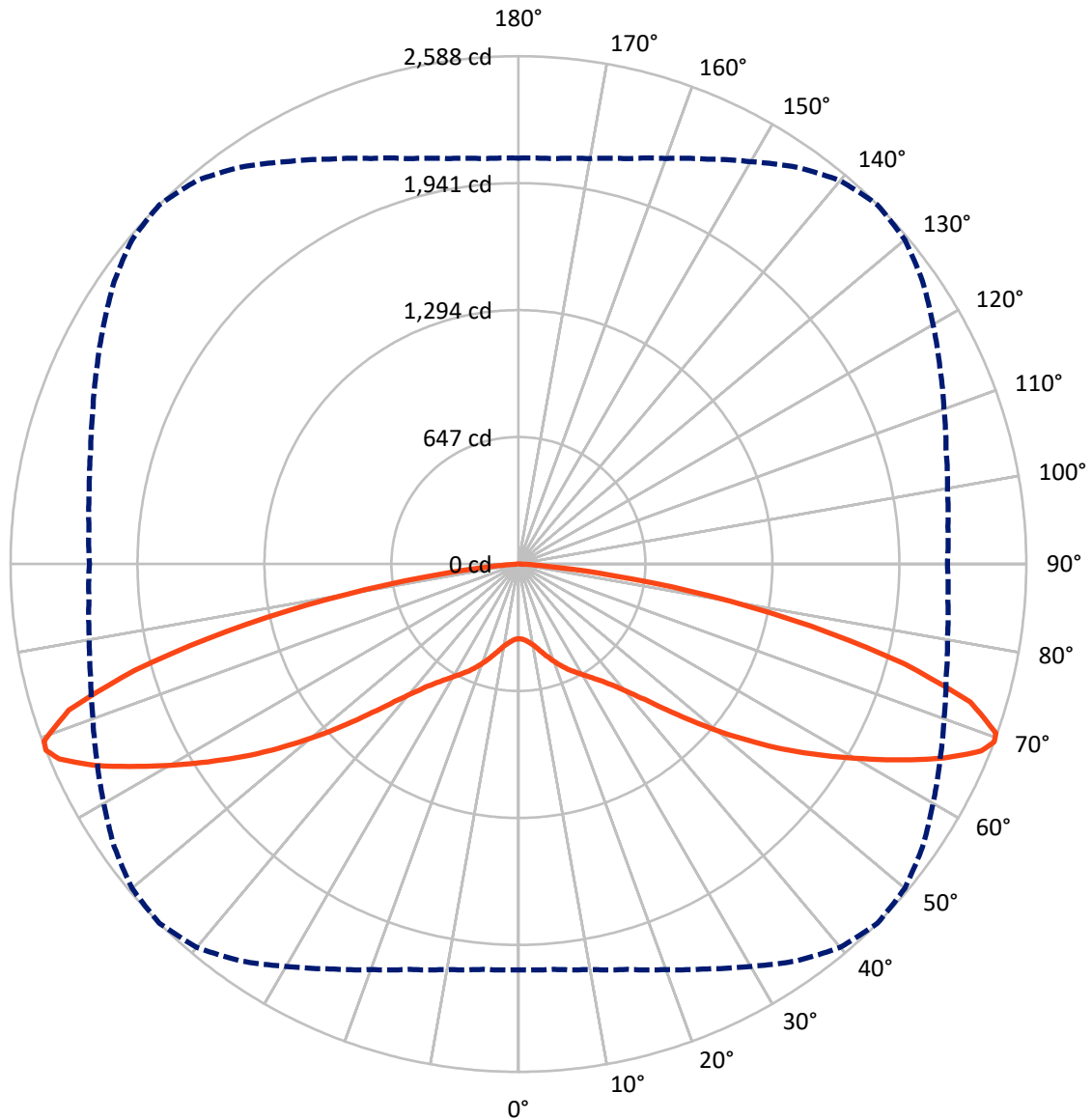
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P180083
CATALOG NUMBER: ICM-F03-LED-E1-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P180083

CATALOG NUMBER: ICM-F03-LED-E1-5WQ

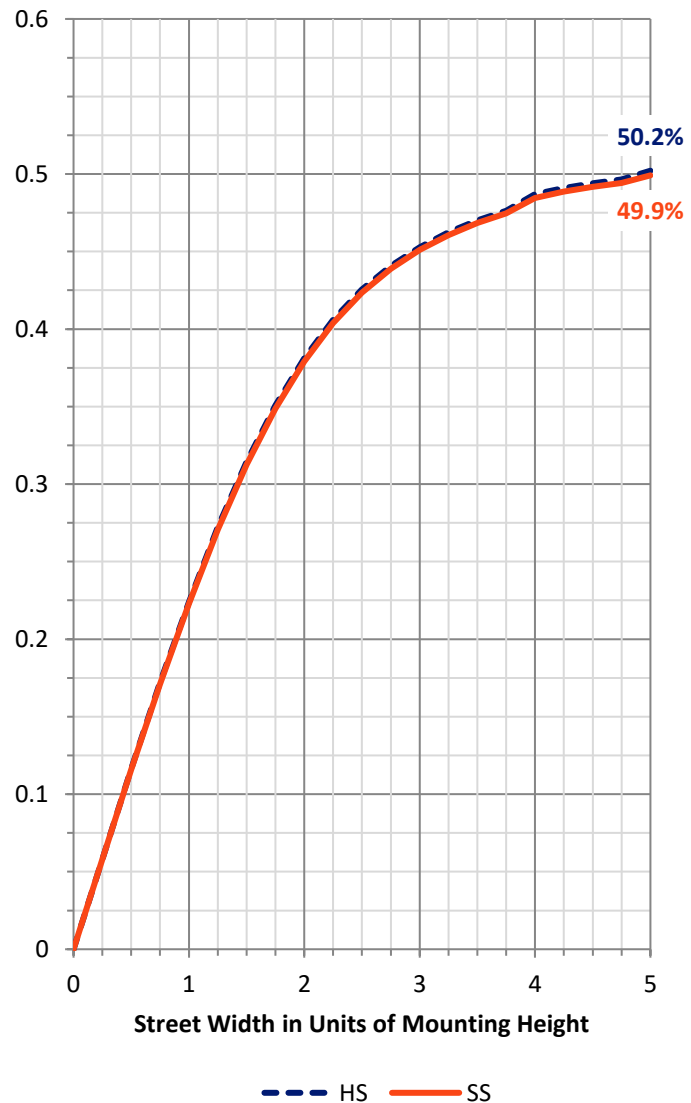
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3667.4	0.0	3667.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3667.4	0.0	3667.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7334.9	0.0	7334.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	0.5
10°-20°	135.1	1.8
20°-30°	273.5	3.7
30°-40°	458.5	6.3
40°-50°	808.7	11.0
50°-60°	1426.2	19.4
60°-70°	2177.4	29.7
70°-80°	1819.5	24.8
80°-90°	197.7	2.7
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°	7334.9	100.0
0°-180°	7334.9	100.0



REPORT NUMBER: P180083

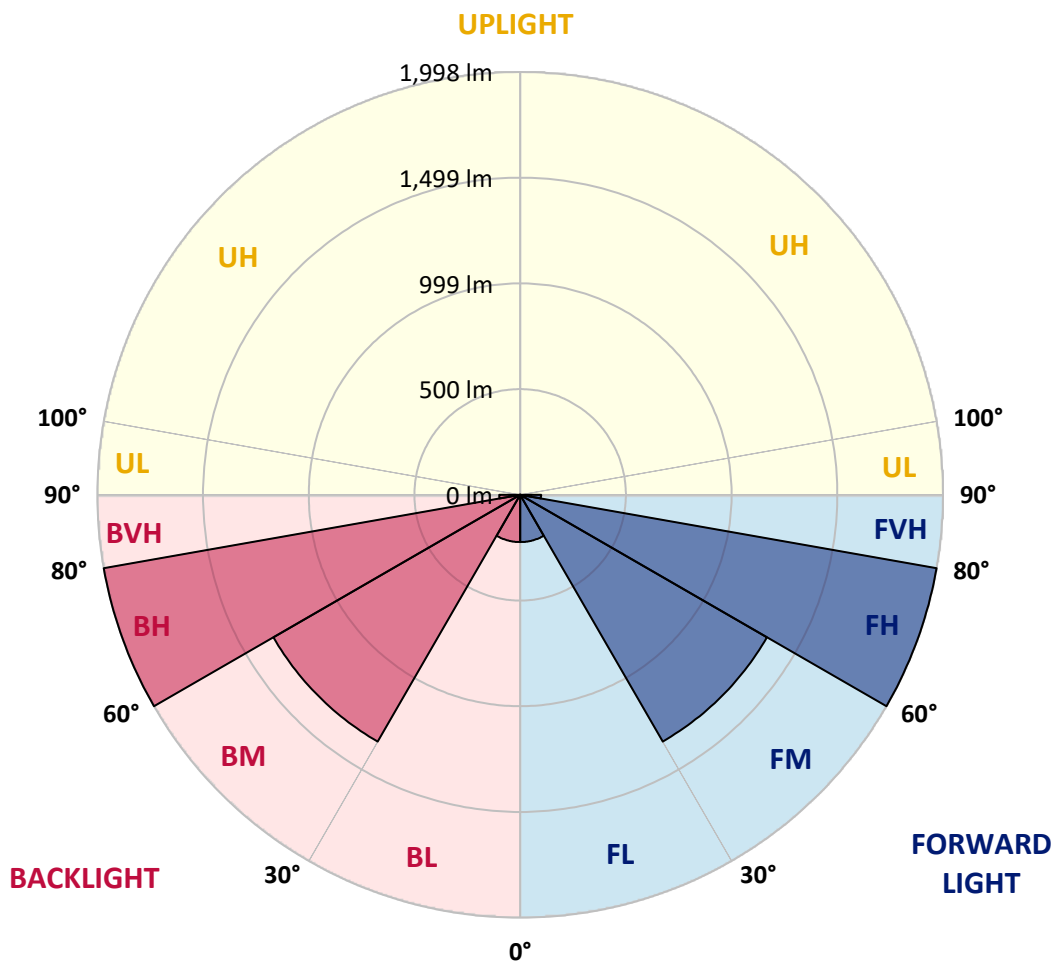
CATALOG NUMBER: ICM-F03-LED-E1-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.4	3.0			
FM	(30°-60°)	1346.7	18.4			
FH	(60°-80°)	1998.4	27.2			G2/5000
FVH	(80°-90°)	98.9	1.3			G1/100
BL	(0°-30°)	223.4	3.0	B1/500		
BM	(30°-60°)	1346.7	18.4	B2/2500		
BH	(60°-80°)	1998.4	27.2	B3/2500		G2/5000
BVH	(80°-90°)	98.9	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P180083

CATALOG NUMBER: ICM-F03-LED-E1-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	384.0	384.7	384.0	384.0	384.0	384.0	384.0	383.2	383.2	383.2	384.0
5°	391.6	392.4	391.6	392.4	392.4	392.4	392.4	391.6	391.6	391.6	391.6
7.5°	403.9	403.9	403.9	404.7	403.9	403.9	404.7	403.9	403.9	403.9	403.9
10°	421.6	420.8	420.8	420.8	420.8	420.8	421.6	421.6	421.6	420.8	420.8
12.5°	443.1	442.3	443.1	443.1	443.9	443.9	443.9	443.9	443.9	443.9	443.1
15°	469.2	469.2	469.2	470.0	471.5	471.5	470.7	471.5	471.5	471.5	471.5
17.5°	498.4	499.9	498.4	499.2	499.9	499.2	500.7	501.5	502.2	501.5	499.2
20°	528.4	529.1	529.1	529.1	529.1	530.6	531.4	531.4	533.7	532.9	532.2
22.5°	556.7	558.3	558.3	559.1	559.1	561.4	561.4	561.4	562.9	564.5	562.9
25°	586.7	586.0	586.0	587.4	588.3	591.4	591.4	592.8	595.2	595.9	594.4
27.5°	613.6	612.8	612.8	615.1	615.9	619.7	619.7	622.8	624.4	625.1	623.5
30°	642.0	642.0	641.2	643.5	645.9	648.9	650.4	653.5	655.8	656.6	655.1
32.5°	675.8	674.2	675.0	676.6	678.1	681.1	683.4	687.3	690.3	691.2	689.6
35°	714.1	711.9	712.7	714.1	716.5	721.1	724.9	727.3	731.8	733.4	730.3
37.5°	756.4	757.2	756.4	760.3	764.1	769.5	774.1	777.1	781.8	784.1	781.8
40°	816.3	814.1	816.3	820.2	826.3	833.2	842.4	844.7	849.3	854.0	848.6
42.5°	893.9	892.4	897.7	900.7	907.7	915.4	926.9	933.0	939.9	943.0	938.4
45°	995.3	995.3	1001.4	1002.1	1012.9	1022.9	1039.0	1046.7	1059.7	1059.7	1059.7
47.5°	1107.4	1112.0	1115.8	1123.4	1131.2	1149.6	1165.7	1182.6	1194.9	1196.5	1194.1
50°	1223.4	1227.9	1239.4	1250.2	1267.1	1290.1	1307.8	1330.1	1340.8	1350.1	1347.0
52.5°	1351.5	1352.3	1366.1	1380.0	1404.6	1429.9	1458.3	1481.3	1500.6	1509.0	1502.1
55°	1492.1	1493.6	1506.0	1520.5	1548.2	1577.3	1612.7	1636.5	1661.0	1676.4	1664.8
57.5°	1644.1	1644.9	1657.2	1674.9	1707.9	1737.0	1770.9	1804.7	1827.6	1841.5	1833.9
60°	1812.3	1816.2	1825.4	1847.6	1879.2	1909.9	1943.6	1973.6	2000.5	2015.1	2007.4
62.5°	1992.0	1995.8	2008.9	2026.6	2054.2	2088.0	2120.3	2158.7	2180.9	2197.0	2185.5
65°	2112.6	2119.5	2140.2	2164.0	2204.8	2248.5	2286.2	2338.3	2365.2	2384.5	2373.7
67.5°	2120.3	2124.1	2149.4	2185.5	2240.1	2306.2	2382.9	2464.3	2517.3	2542.6	2524.2
69°	2068.0	2073.4	2098.0	2138.7	2199.4	2276.2	2367.5	2468.9	2550.3	2587.9	2570.2
70°	2008.9	2020.5	2047.3	2091.8	2151.0	2231.6	2326.1	2434.3	2529.6	2581.0	2568.0
72.5°	1884.5	1887.5	1905.2	1940.6	1985.9	2052.7	2141.8	2243.9	2334.5	2408.2	2419.0
75°	1672.6	1682.5	1695.6	1719.5	1742.4	1790.8	1850.7	1920.6	1973.6	2030.4	2032.8
77.5°	1264.0	1294.0	1303.9	1309.3	1319.4	1357.7	1410.0	1470.6	1514.3	1523.5	1522.1
80°	567.5	607.4	616.7	660.5	687.3	751.1	830.9	923.8	986.1	992.9	976.0
82.5°	111.3	119.1	139.0	173.6	236.6	274.1	326.3	391.6	451.5	486.1	465.4
85°	36.8	39.2	45.3	50.0	57.6	65.3	79.1	98.3	122.1	135.2	120.6
87.5°	14.6	14.6	16.9	18.4	20.0	20.0	20.0	18.4	17.7	14.6	13.0
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: P180083

CATALOG NUMBER: ICM-F03-LED-E1-5WQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2
5°	391.6	390.9	390.9	390.1	390.1	390.1	390.1	390.1
7.5°	403.2	402.4	401.6	402.4	401.6	401.6	401.6	401.6
10°	420.8	419.3	418.5	417.8	417.8	417.8	417.0	417.0
12.5°	441.6	441.6	440.8	440.0	438.5	439.3	438.5	436.9
15°	470.0	468.5	467.6	466.9	465.4	465.4	465.4	464.6
17.5°	498.4	496.8	496.8	494.5	493.8	493.8	493.8	494.5
20°	529.9	527.5	526.0	524.5	523.0	523.7	522.2	523.7
22.5°	561.4	558.3	556.7	554.4	552.2	552.2	551.4	549.9
25°	592.1	588.3	586.7	584.4	581.3	581.3	579.8	578.2
27.5°	621.2	617.4	615.9	611.3	608.2	607.4	605.9	605.1
30°	653.5	648.9	646.6	642.0	637.4	636.7	634.3	634.3
32.5°	687.3	682.7	681.1	674.2	670.4	670.4	668.8	667.4
35°	729.5	722.6	721.1	714.1	708.8	708.8	707.3	708.0
37.5°	779.4	774.1	768.7	763.4	757.2	756.4	754.9	753.3
40°	846.2	840.1	834.0	826.3	820.9	819.4	817.1	816.3
42.5°	935.4	929.2	916.9	910.8	905.4	900.7	900.0	899.3
45°	1049.0	1041.3	1032.8	1021.3	1014.4	1004.5	1002.9	999.1
47.5°	1185.7	1171.1	1156.5	1146.5	1135.8	1124.3	1122.0	1115.8
50°	1330.8	1319.4	1294.7	1278.6	1261.7	1250.2	1242.5	1240.2
52.5°	1486.7	1465.2	1440.7	1419.2	1394.6	1379.2	1365.4	1361.6
55°	1649.5	1618.8	1588.1	1562.7	1538.1	1519.7	1506.7	1500.6
57.5°	1812.3	1778.5	1744.8	1717.1	1696.4	1672.6	1659.5	1656.5
60°	1982.1	1949.8	1915.3	1887.5	1862.2	1841.5	1833.9	1819.3
62.5°	2161.8	2127.9	2095.7	2068.8	2036.6	2022.0	2008.9	2000.5
65°	2338.3	2299.2	2258.5	2230.1	2197.9	2177.1	2160.9	2149.4
67.5°	2475.1	2415.9	2361.4	2313.8	2270.1	2237.8	2217.0	2206.2
69°	2513.4	2439.7	2369.9	2307.6	2256.2	2220.1	2197.0	2186.3
70°	2508.9	2427.5	2350.6	2282.3	2226.2	2187.8	2165.6	2145.6
72.5°	2366.8	2292.3	2207.1	2132.6	2081.9	2045.0	2022.7	2012.0
75°	2019.6	1969.8	1908.3	1850.7	1813.9	1792.4	1764.8	1765.5
77.5°	1470.6	1472.1	1430.7	1371.5	1330.1	1322.4	1310.1	1297.8
80°	912.3	839.4	791.7	728.0	681.1	640.5	622.8	584.4
82.5°	420.8	328.7	255.0	192.7	148.2	116.0	101.4	83.0
85°	93.7	71.4	59.2	47.6	40.7	37.7	30.7	28.4
87.5°	13.0	11.5	10.8	10.0	8.5	6.1	4.7	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)