

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: P180151

Luminaire Tested: **ICS-F04-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180151  
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: ICS-F04-LED-E1-5WQ-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7986.2 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

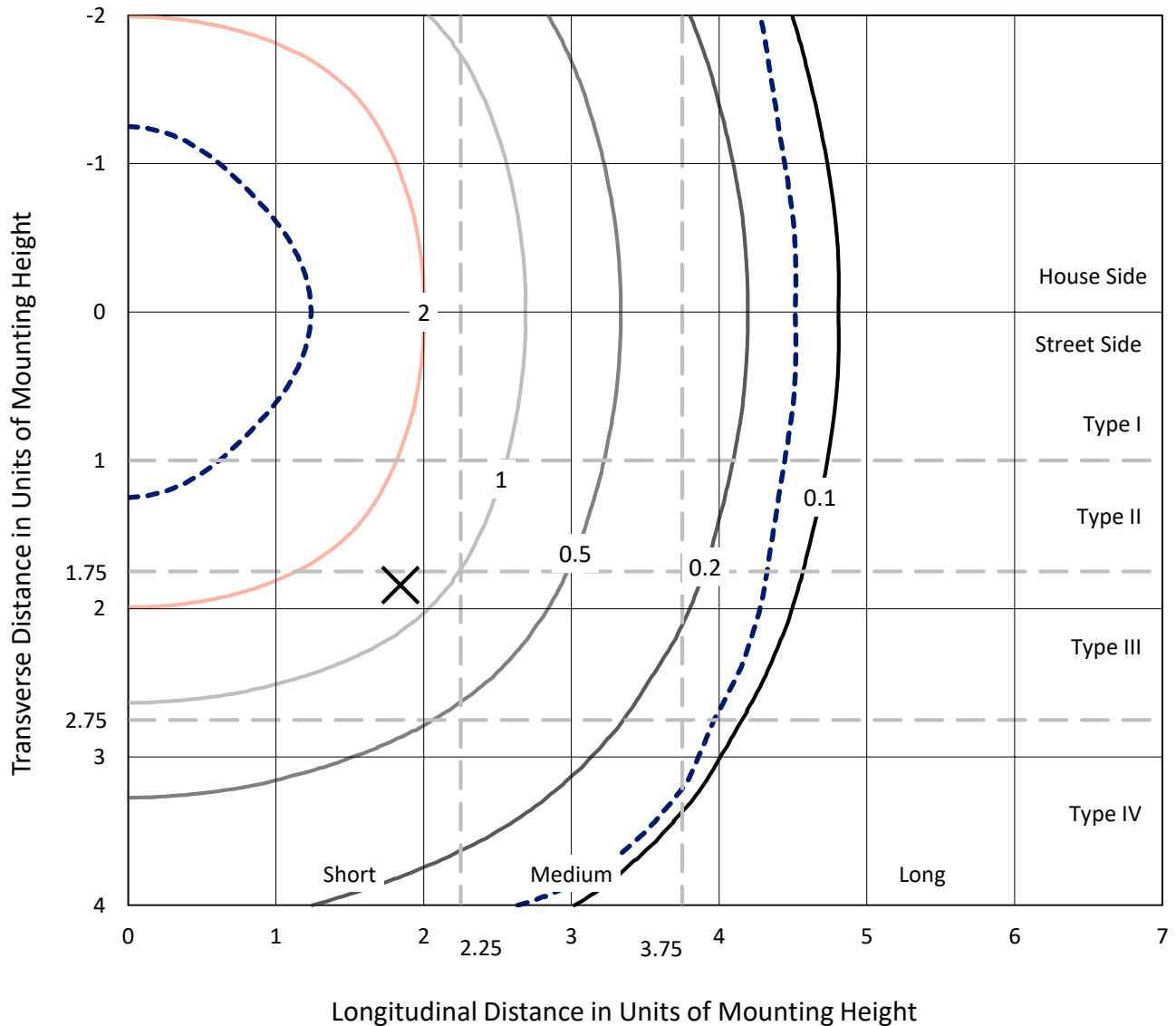
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180151  
 CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

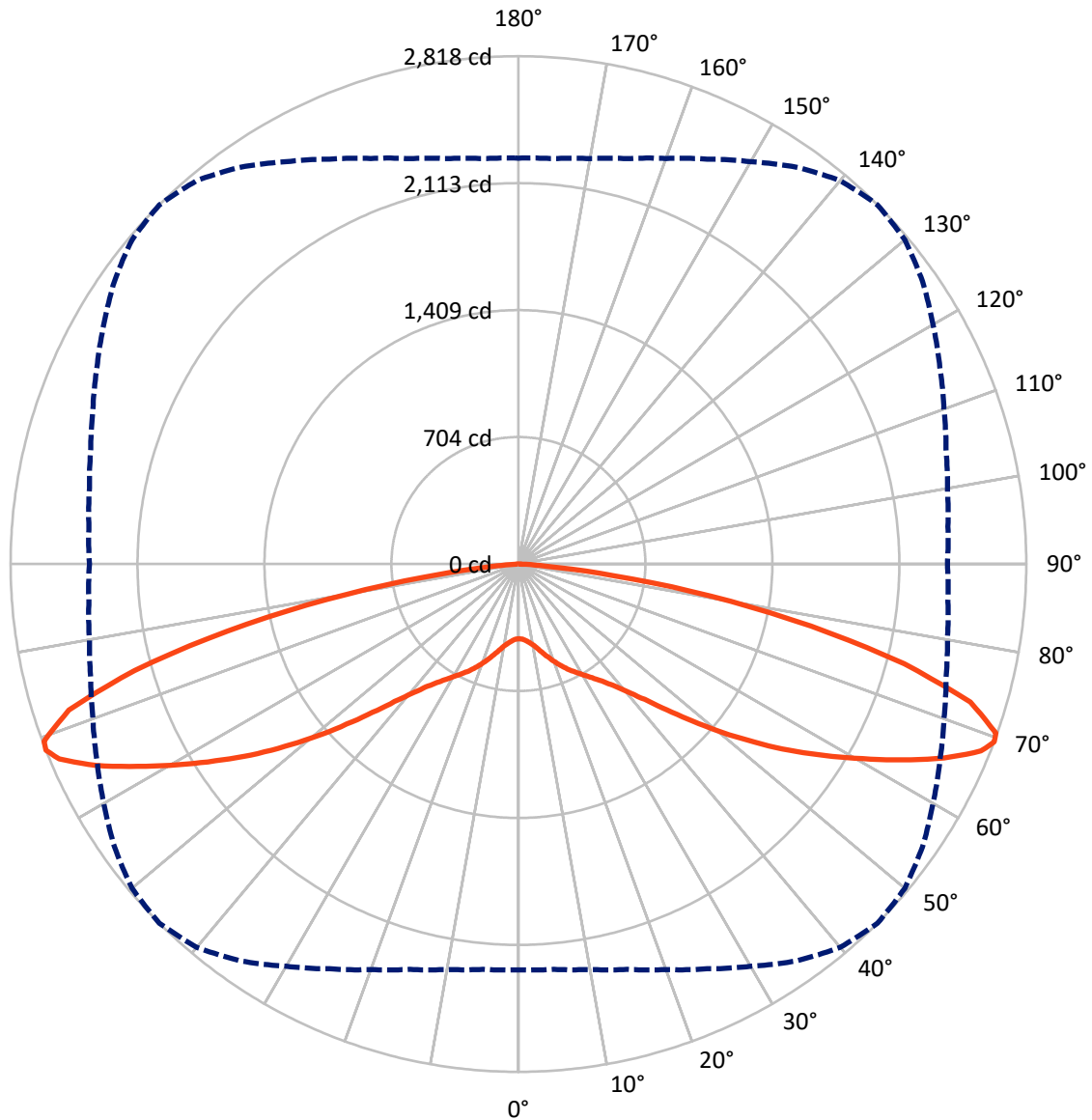
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P180151  
CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P180151

CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

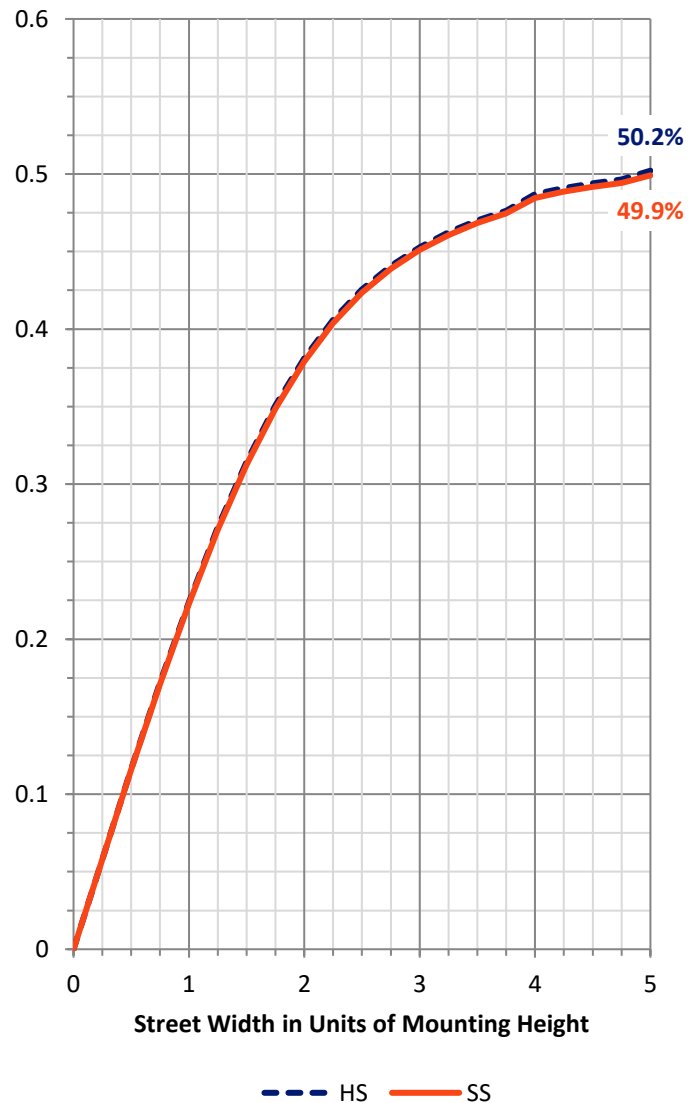
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3993.1	0.0	3993.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3993.1	0.0	3993.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7986.2	0.0	7986.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	0.5
10°-20°	147.0	1.8
20°-30°	297.8	3.7
30°-40°	499.2	6.3
40°-50°	880.6	11.0
50°-60°	1552.9	19.4
60°-70°	2370.8	29.7
70°-80°	1981.0	24.8
80°-90°	215.3	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°	7986.2	100.0
0°-180°	7986.2	100.0



REPORT NUMBER: P180151

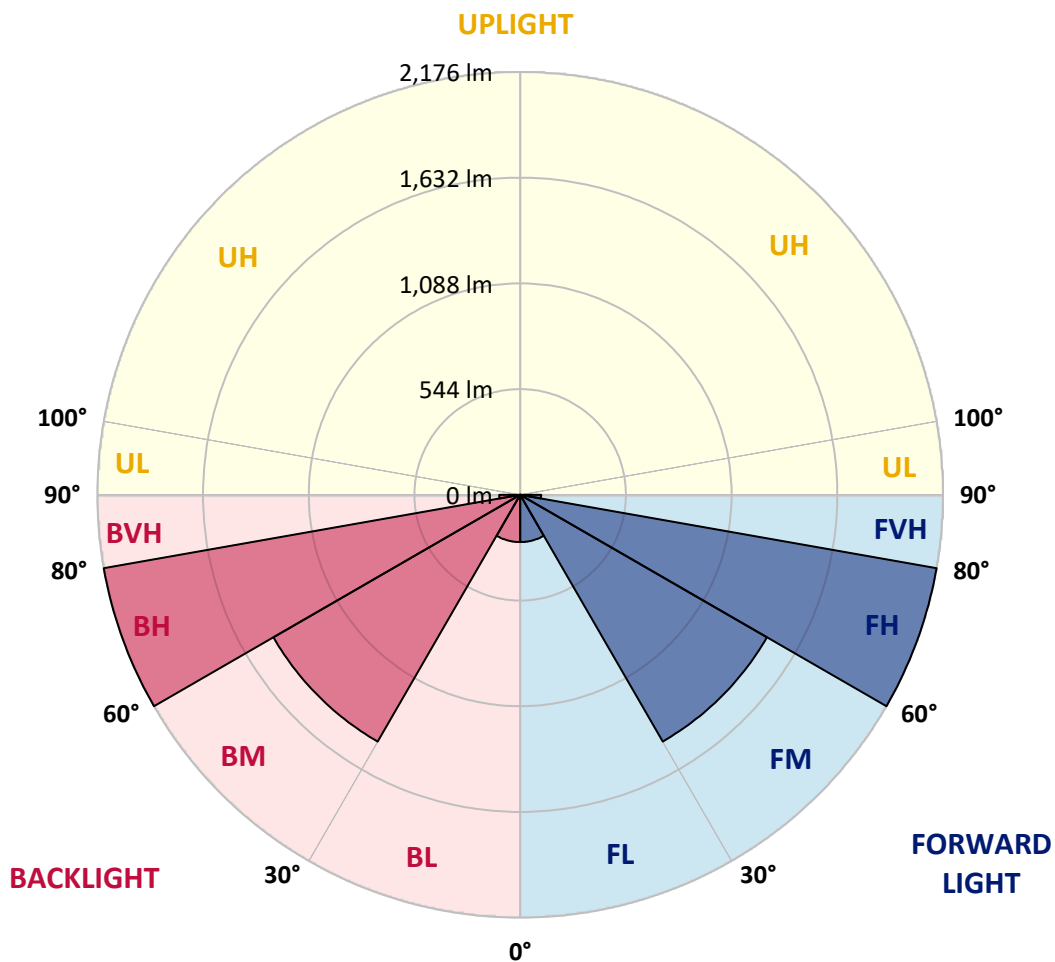
CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.2	3.0			
FM	(30°-60°)	1466.3	18.4			
FH	(60°-80°)	2175.9	27.2			G2/5000
FVH	(80°-90°)	107.6	1.3			G2/225
BL	(0°-30°)	243.2	3.0	B1/500		
BM	(30°-60°)	1466.3	18.4	B2/2500		
BH	(60°-80°)	2175.9	27.2	B3/2500		G2/5000
BVH	(80°-90°)	107.6	1.3			G2/225
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: P180151

CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	418.1	418.9	418.1	418.1	418.1	418.1	418.1	417.2	417.2	417.2	418.1
5°	426.4	427.3	426.4	427.3	427.3	427.3	427.3	426.4	426.4	426.4	426.4
7.5°	439.8	439.8	439.8	440.6	439.8	439.8	440.6	439.8	439.8	439.8	439.8
10°	459.0	458.2	458.2	458.2	458.2	458.2	459.0	459.0	459.0	458.2	458.2
12.5°	482.4	481.6	482.4	482.4	483.3	483.3	483.3	483.3	483.3	483.3	482.4
15°	510.9	510.9	510.9	511.7	513.4	513.4	512.5	513.4	513.4	513.4	513.4
17.5°	542.6	544.3	542.6	543.5	544.3	543.5	545.2	546.0	546.8	546.0	543.5
20°	575.3	576.1	576.1	576.1	576.1	577.8	578.6	578.6	581.1	580.3	579.4
22.5°	606.2	607.9	607.9	608.7	608.7	611.2	611.2	611.2	612.9	614.6	612.9
25°	638.8	638.0	638.0	639.6	640.5	643.8	643.8	645.5	648.0	648.8	647.2
27.5°	668.1	667.2	667.2	669.7	670.6	674.8	674.8	678.1	679.8	680.6	678.9
30°	699.0	699.0	698.2	700.7	703.2	706.5	708.2	711.5	714.1	714.9	713.2
32.5°	735.8	734.1	735.0	736.6	738.3	741.6	744.2	748.3	751.7	752.5	750.8
35°	777.6	775.1	775.9	777.6	780.1	785.1	789.3	791.8	796.8	798.5	795.2
37.5°	823.6	824.4	823.6	827.8	831.9	837.8	842.8	846.2	851.2	853.7	851.2
40°	888.8	886.3	888.8	893.0	899.7	907.2	917.2	919.7	924.8	929.8	923.9
42.5°	973.3	971.6	977.4	980.8	988.3	996.7	1009.2	1015.9	1023.4	1026.8	1021.7
45°	1083.6	1083.6	1090.3	1091.1	1102.9	1113.7	1131.3	1139.6	1153.9	1153.9	1153.9
47.5°	1205.7	1210.7	1214.9	1223.3	1231.6	1251.7	1269.2	1287.6	1301.0	1302.7	1300.2
50°	1332.0	1337.0	1349.5	1361.2	1379.6	1404.7	1423.9	1448.2	1459.9	1469.9	1466.6
52.5°	1471.6	1472.4	1487.5	1502.5	1529.3	1556.9	1587.8	1612.9	1633.8	1643.0	1635.5
55°	1624.6	1626.3	1639.6	1655.5	1685.6	1717.4	1755.9	1781.8	1808.5	1825.3	1812.7
57.5°	1790.2	1791.0	1804.4	1823.6	1859.5	1891.3	1928.1	1964.9	1990.0	2005.0	1996.7
60°	1973.3	1977.4	1987.5	2011.7	2046.0	2079.5	2116.2	2148.8	2178.1	2194.0	2185.6
62.5°	2168.9	2173.1	2187.3	2206.5	2236.6	2273.4	2308.5	2350.4	2374.6	2392.2	2379.6
65°	2300.2	2307.7	2330.3	2356.2	2400.5	2448.2	2489.2	2546.0	2575.3	2596.2	2584.5
67.5°	2308.5	2312.7	2340.3	2379.6	2439.0	2510.9	2594.5	2683.1	2740.8	2768.4	2748.4
69°	2251.7	2257.5	2284.3	2328.6	2394.7	2478.3	2577.8	2688.2	2776.8	2817.8	2798.5
70°	2187.3	2199.9	2229.1	2277.6	2342.0	2429.8	2532.6	2650.5	2754.2	2810.2	2796.0
72.5°	2051.9	2055.2	2074.4	2112.9	2162.2	2235.0	2332.0	2443.2	2541.8	2622.1	2633.8
75°	1821.1	1832.0	1846.2	1872.1	1897.2	1949.9	2015.1	2091.2	2148.8	2210.7	2213.2
77.5°	1376.3	1408.9	1419.7	1425.6	1436.5	1478.3	1535.1	1601.2	1648.8	1658.9	1657.2
80°	617.9	661.4	671.4	719.1	748.3	817.7	904.7	1005.9	1073.6	1081.1	1062.7
82.5°	121.2	129.6	151.3	189.0	257.5	298.5	355.4	426.4	491.6	529.3	506.7
85°	40.1	42.6	49.3	54.3	62.7	71.1	86.1	107.0	132.9	147.2	131.3
87.5°	15.9	15.9	18.4	20.1	21.7	21.7	21.7	20.1	19.2	15.9	14.2
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: P180151  
 CATALOG NUMBER: ICS-F04-LED-E1-5WQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	414.7	414.7	414.7	414.7	414.7	414.7	414.7	414.7
2.5°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2
5°	426.4	425.6	425.6	424.8	424.8	424.8	424.8	424.8
7.5°	439.0	438.1	437.3	438.1	437.3	437.3	437.3	437.3
10°	458.2	456.5	455.7	454.9	454.9	454.9	454.0	454.0
12.5°	480.8	480.8	479.9	479.1	477.4	478.3	477.4	475.8
15°	511.7	510.0	509.2	508.4	506.7	506.7	506.7	505.9
17.5°	542.6	541.0	541.0	538.5	537.6	537.6	537.6	538.5
20°	576.9	574.4	572.7	571.1	569.4	570.2	568.6	570.2
22.5°	611.2	607.9	606.2	603.7	601.2	601.2	600.3	598.7
25°	644.7	640.5	638.8	636.3	632.9	632.9	631.3	629.6
27.5°	676.4	672.2	670.6	665.6	662.2	661.4	659.7	658.9
30°	711.5	706.5	704.0	699.0	694.0	693.2	690.6	690.6
32.5°	748.3	743.3	741.6	734.1	729.9	729.9	728.3	726.6
35°	794.3	786.8	785.1	777.6	771.7	771.7	770.1	770.9
37.5°	848.7	842.8	837.0	831.1	824.4	823.6	821.9	820.2
40°	921.4	914.7	908.0	899.7	893.8	892.1	889.6	888.8
42.5°	1018.4	1011.7	998.3	991.6	985.8	980.8	979.9	979.1
45°	1142.2	1133.8	1124.6	1112.1	1104.5	1093.7	1092.0	1087.8
47.5°	1291.0	1275.1	1259.2	1248.3	1236.6	1224.1	1221.6	1214.9
50°	1449.0	1436.5	1409.7	1392.2	1373.8	1361.2	1352.9	1350.3
52.5°	1618.7	1595.3	1568.6	1545.2	1518.4	1501.7	1486.6	1482.5
55°	1796.0	1762.6	1729.1	1701.5	1674.8	1654.7	1640.5	1633.8
57.5°	1973.3	1936.5	1899.7	1869.6	1847.0	1821.1	1806.9	1803.5
60°	2158.0	2122.9	2085.3	2055.2	2027.6	2005.0	1996.7	1980.8
62.5°	2353.7	2316.9	2281.8	2252.5	2217.4	2201.5	2187.3	2178.1
65°	2546.0	2503.4	2459.1	2428.1	2393.0	2370.4	2352.9	2340.3
67.5°	2694.8	2630.5	2571.1	2519.3	2471.6	2436.5	2413.9	2402.2
69°	2736.6	2656.4	2580.3	2512.6	2456.5	2417.2	2392.2	2380.5
70°	2731.6	2643.0	2559.4	2485.0	2423.9	2382.1	2357.9	2336.1
72.5°	2576.9	2495.8	2403.0	2321.9	2266.7	2226.6	2202.4	2190.7
75°	2199.0	2144.7	2077.8	2015.1	1974.9	1951.5	1921.4	1922.3
77.5°	1601.2	1602.9	1557.7	1493.3	1448.2	1439.8	1426.4	1413.1
80°	993.3	913.9	862.0	792.6	741.6	697.3	678.1	636.3
82.5°	458.2	357.9	277.6	209.9	161.4	126.3	110.4	90.3
85°	102.0	77.8	64.4	51.8	44.3	41.0	33.4	30.9
87.5°	14.2	12.5	11.7	10.9	9.2	6.7	5.0	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)