

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: P180146

Luminaire Tested: **ICS-E04-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180146
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-E04-LED-E1-5WQ-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9674.1 lumens
Efficiency: N/A
Efficacy: 99.5 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: B4 - U0 - G2

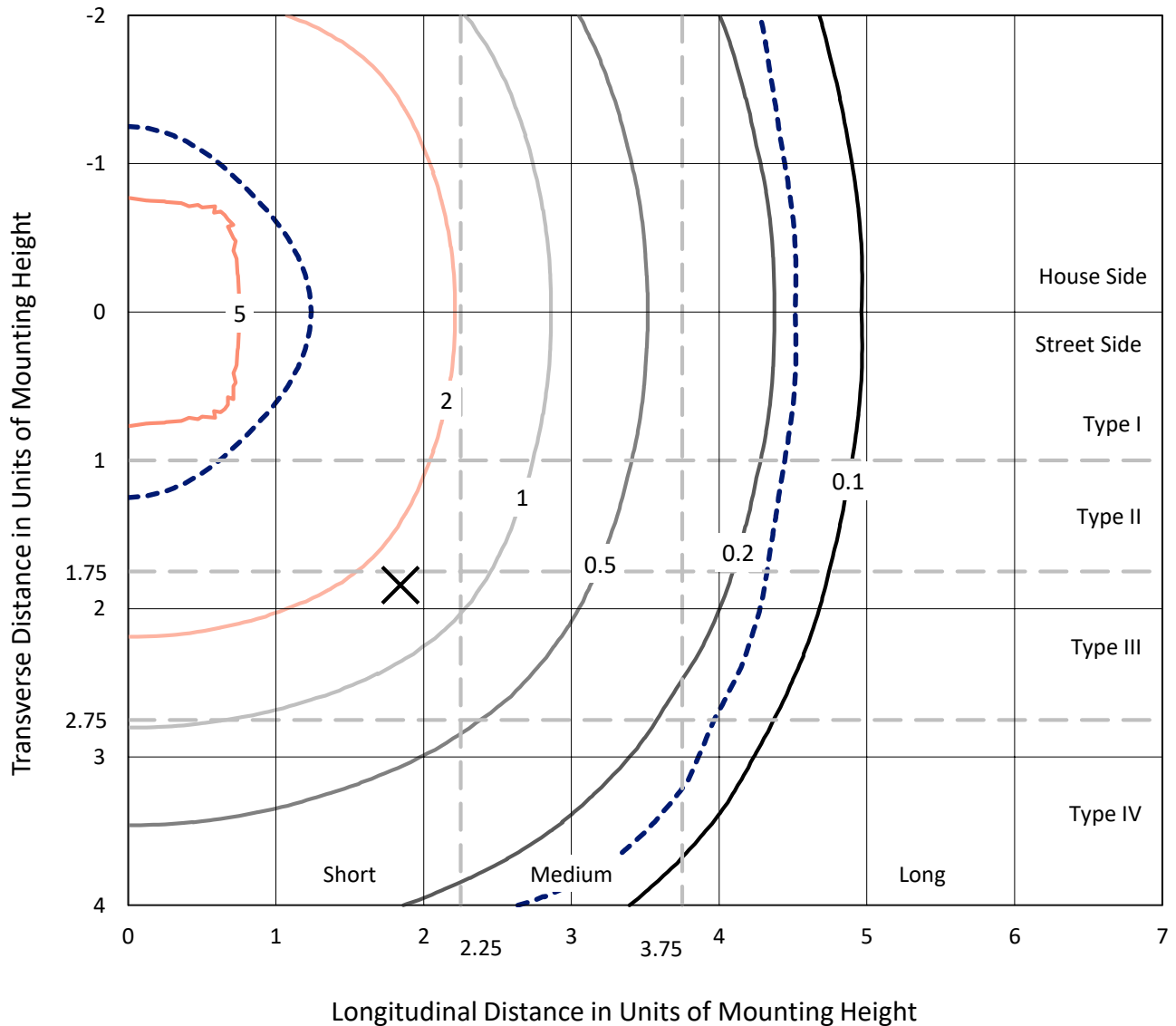
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

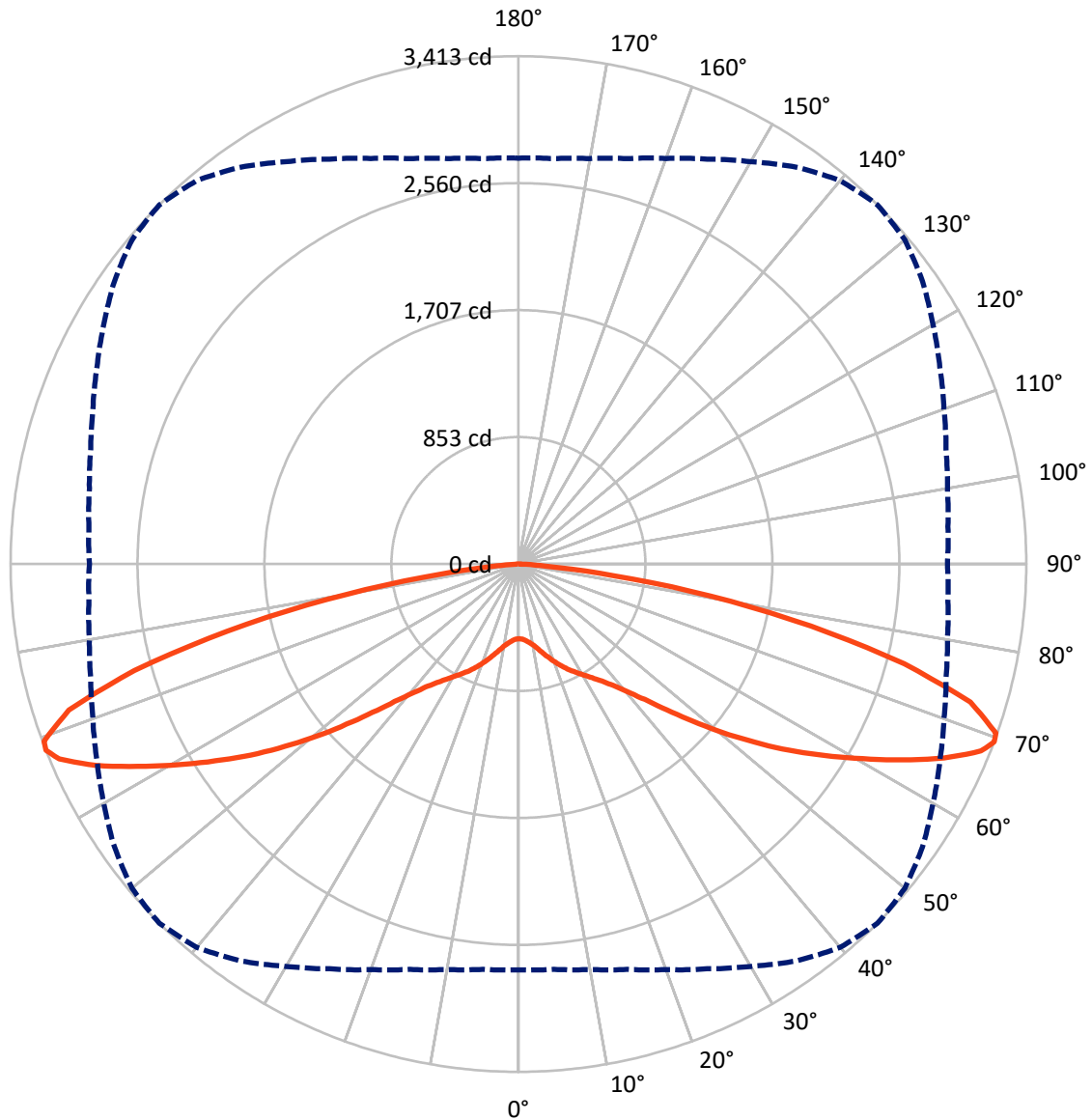
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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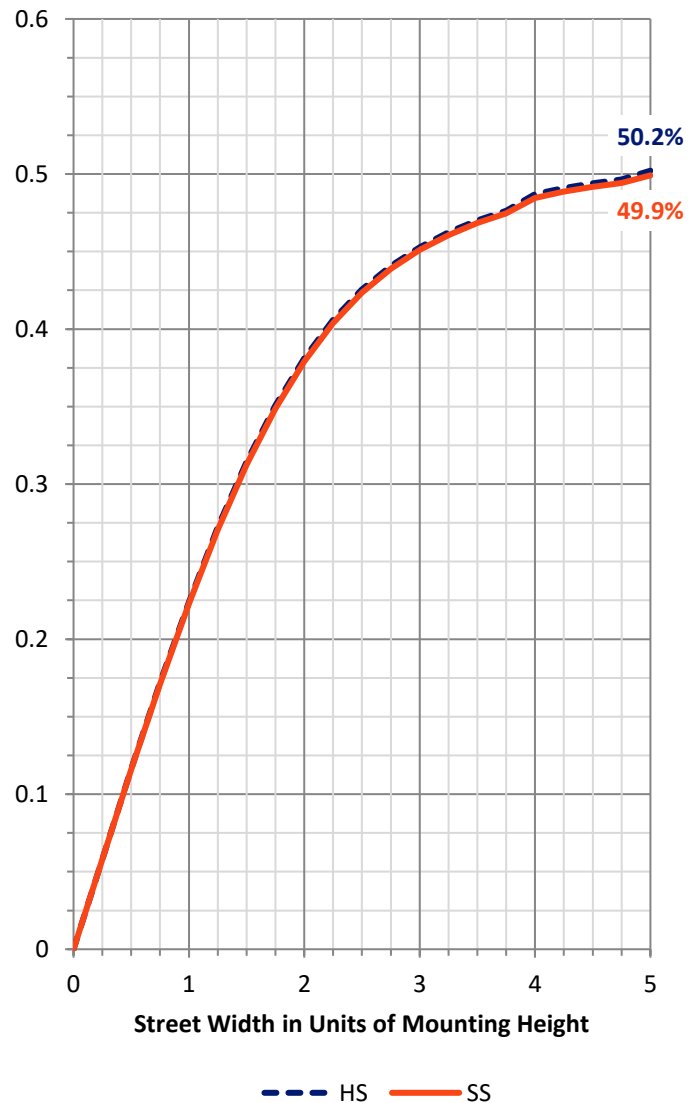
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4837.0	0.0	4837.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4837.0	0.0	4837.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9674.1	0.0	9674.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	0.5
10°-20°	178.1	1.8
20°-30°	360.7	3.7
30°-40°	604.7	6.3
40°-50°	1066.7	11.0
50°-60°	1881.1	19.4
60°-70°	2871.8	29.7
70°-80°	2399.7	24.8
80°-90°	260.8	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°	9674.1	100.0
0°-180°	9674.1	100.0



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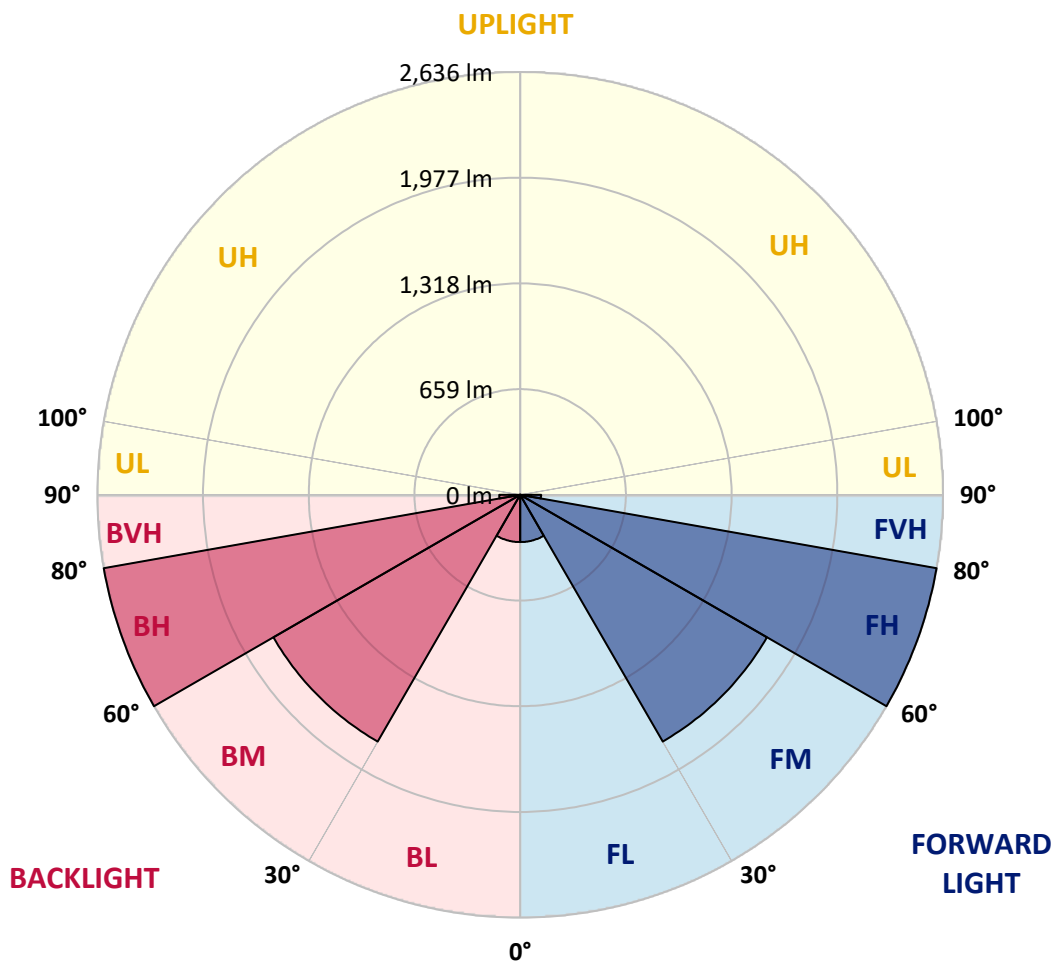
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.6	3.0			
FM	(30°-60°)	1776.2	18.4			
FH	(60°-80°)	2635.8	27.2			G2/5000
FVH	(80°-90°)	130.4	1.3			G2/225
BL	(0°-30°)	294.6	3.0	B1/500		
BM	(30°-60°)	1776.2	18.4	B2/2500		
BH	(60°-80°)	2635.8	27.2	B4/5000		G2/5000
BVH	(80°-90°)	130.4	1.3			G2/225
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°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	506.4	507.4	506.4	506.4	506.4	506.4	506.4	505.4	505.4	505.4	506.4
5°	516.6	517.6	516.6	517.6	517.6	517.6	517.6	516.6	516.6	516.6	516.6
7.5°	532.8	532.8	532.8	533.8	532.8	532.8	533.8	532.8	532.8	532.8	532.8
10°	556.1	555.0	555.0	555.0	555.0	555.0	556.1	556.1	556.1	555.0	555.0
12.5°	584.4	583.4	584.4	584.4	585.4	585.4	585.4	585.4	585.4	585.4	584.4
15°	618.8	618.8	618.8	619.9	621.9	621.9	620.9	621.9	621.9	621.9	621.9
17.5°	657.3	659.4	657.3	658.3	659.4	658.3	660.4	661.4	662.4	661.4	658.3
20°	696.8	697.8	697.8	697.8	697.8	699.9	700.9	700.9	703.9	702.9	701.9
22.5°	734.3	736.3	736.3	737.4	737.4	740.4	740.4	740.4	742.4	744.4	742.4
25°	773.8	772.8	772.8	774.8	775.8	779.9	779.9	781.9	785.0	786.0	783.9
27.5°	809.3	808.2	808.2	811.3	812.3	817.4	817.4	821.4	823.4	824.5	822.4
30°	846.7	846.7	845.7	848.8	851.8	855.9	857.9	861.9	865.0	866.0	864.0
32.5°	891.3	889.3	890.3	892.3	894.3	898.4	901.4	906.5	910.5	911.6	909.5
35°	941.9	938.9	939.9	941.9	945.0	951.1	956.1	959.2	965.2	967.3	963.2
37.5°	997.7	998.7	997.7	1002.7	1007.8	1014.9	1020.9	1025.0	1031.1	1034.1	1031.1
40°	1076.7	1073.6	1076.7	1081.7	1089.8	1098.9	1111.1	1114.1	1120.2	1126.3	1119.2
42.5°	1179.0	1176.9	1184.0	1188.1	1197.2	1207.3	1222.5	1230.6	1239.7	1243.8	1237.7
45°	1312.6	1312.6	1320.7	1321.8	1335.9	1349.1	1370.4	1380.5	1397.7	1397.7	1397.7
47.5°	1460.5	1466.6	1471.7	1481.8	1491.9	1516.2	1537.5	1559.8	1576.0	1578.0	1575.0
50°	1613.5	1619.5	1634.7	1648.9	1671.2	1701.6	1724.9	1754.2	1768.4	1780.6	1776.5
52.5°	1782.6	1783.6	1801.8	1820.1	1852.5	1885.9	1923.4	1953.8	1979.1	1990.2	1981.1
55°	1968.0	1970.0	1986.2	2005.4	2041.9	2080.4	2127.0	2158.4	2190.8	2211.0	2195.8
57.5°	2168.5	2169.5	2185.7	2209.0	2252.6	2291.1	2335.6	2380.2	2410.6	2428.8	2418.7
60°	2390.3	2395.4	2407.5	2436.9	2478.4	2518.9	2563.5	2603.0	2638.5	2657.7	2647.6
62.5°	2627.3	2632.4	2649.6	2672.9	2709.4	2753.9	2796.5	2847.1	2876.5	2897.7	2882.6
65°	2786.3	2795.5	2822.8	2854.2	2907.9	2965.6	3015.2	3084.1	3119.6	3144.9	3130.7
67.5°	2796.5	2801.5	2835.0	2882.6	2954.5	3041.6	3142.9	3250.2	3320.1	3353.5	3329.2
69°	2727.6	2734.7	2767.1	2820.8	2900.8	3002.1	3122.6	3256.3	3363.7	3413.3	3390.0
70°	2649.6	2664.8	2700.2	2759.0	2837.0	2943.3	3067.9	3210.7	3336.3	3404.2	3387.0
72.5°	2485.5	2489.6	2512.9	2559.5	2619.2	2707.3	2824.8	2959.5	3079.0	3176.3	3190.5
75°	2206.0	2219.1	2236.4	2267.8	2298.1	2362.0	2441.0	2533.1	2603.0	2678.0	2681.0
77.5°	1667.1	1706.6	1719.8	1726.9	1740.1	1790.7	1859.6	1939.6	1997.3	2009.5	2007.5
80°	748.5	801.2	813.3	871.0	906.5	990.6	1095.9	1218.5	1300.5	1309.6	1287.3
82.5°	146.9	157.0	183.3	228.9	312.0	361.6	430.5	516.6	595.6	641.1	613.8
85°	48.6	51.7	59.8	65.8	76.0	86.1	104.3	129.6	161.0	178.3	159.0
87.5°	19.2	19.2	22.3	24.3	26.3	26.3	26.3	24.3	23.3	19.2	17.2
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°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	505.4	505.4	505.4	505.4	505.4	505.4	505.4	505.4
5°	516.6	515.5	515.5	514.5	514.5	514.5	514.5	514.5
7.5°	531.7	530.7	529.7	530.7	529.7	529.7	529.7	529.7
10°	555.0	553.0	552.0	551.0	551.0	551.0	550.0	550.0
12.5°	582.4	582.4	581.4	580.4	578.3	579.3	578.3	576.3
15°	619.9	617.8	616.8	615.8	613.8	613.8	613.8	612.8
17.5°	657.3	655.3	655.3	652.3	651.3	651.3	651.3	652.3
20°	698.9	695.8	693.8	691.8	689.7	690.8	688.7	690.8
22.5°	740.4	736.3	734.3	731.3	728.2	728.2	727.2	725.2
25°	780.9	775.8	773.8	770.8	766.7	766.7	764.7	762.7
27.5°	819.4	814.3	812.3	806.2	802.2	801.2	799.1	798.1
30°	861.9	855.9	852.8	846.7	840.7	839.6	836.6	836.6
32.5°	906.5	900.4	898.4	889.3	884.2	884.2	882.2	880.2
35°	962.2	953.1	951.1	941.9	934.9	934.9	932.8	933.8
37.5°	1028.0	1020.9	1013.9	1006.8	998.7	997.7	995.6	993.6
40°	1116.2	1108.1	1099.9	1089.8	1082.7	1080.7	1077.7	1076.7
42.5°	1233.6	1225.5	1209.3	1201.2	1194.1	1188.1	1187.1	1186.0
45°	1383.5	1373.4	1362.3	1347.1	1338.0	1324.8	1322.8	1317.7
47.5°	1563.8	1544.6	1525.3	1512.2	1498.0	1482.8	1479.8	1471.7
50°	1755.3	1740.1	1707.7	1686.4	1664.1	1648.9	1638.8	1635.7
52.5°	1960.9	1932.5	1900.1	1871.7	1839.3	1819.1	1800.8	1795.8
55°	2175.6	2135.1	2094.6	2061.1	2028.7	2004.4	1987.2	1979.1
57.5°	2390.3	2345.7	2301.2	2264.7	2237.4	2206.0	2188.8	2184.7
60°	2614.2	2571.6	2526.0	2489.6	2456.1	2428.8	2418.7	2399.4
62.5°	2851.2	2806.6	2764.1	2728.6	2686.1	2666.8	2649.6	2638.5
65°	3084.1	3032.5	2978.8	2941.3	2898.8	2871.4	2850.1	2835.0
67.5°	3264.4	3186.4	3114.5	3051.7	2994.0	2951.4	2924.1	2909.9
69°	3315.0	3217.8	3125.6	3043.6	2975.7	2928.1	2897.7	2883.6
70°	3309.0	3201.6	3100.3	3010.2	2936.2	2885.6	2856.2	2829.9
72.5°	3121.6	3023.3	2910.9	2812.7	2745.8	2697.2	2667.8	2653.7
75°	2663.8	2597.9	2516.9	2441.0	2392.3	2364.0	2327.5	2328.5
77.5°	1939.6	1941.6	1886.9	1808.9	1754.2	1744.1	1727.9	1711.7
80°	1203.3	1107.0	1044.2	960.2	898.4	844.7	821.4	770.8
82.5°	555.0	433.5	336.3	254.2	195.5	152.9	133.7	109.4
85°	123.6	94.2	78.0	62.8	53.7	49.6	40.5	37.5
87.5°	17.2	15.2	14.2	13.2	11.1	8.1	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)