

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: P180138

Luminaire Tested: **ICS-E03-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180138
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-E03-LED-E1-5WQ
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8596.7 lumens
Efficiency: N/A
Efficacy: 114.3 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

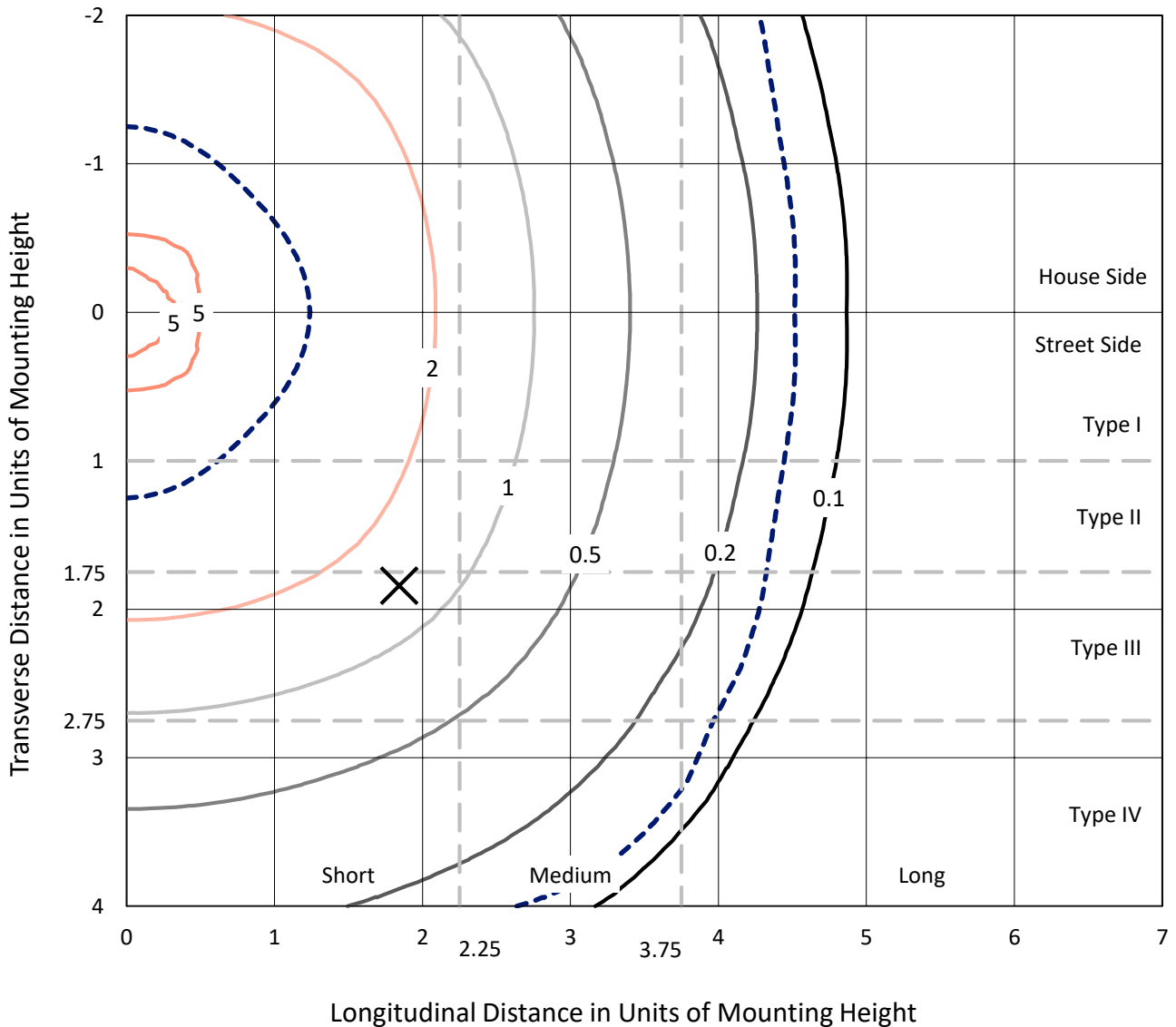
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

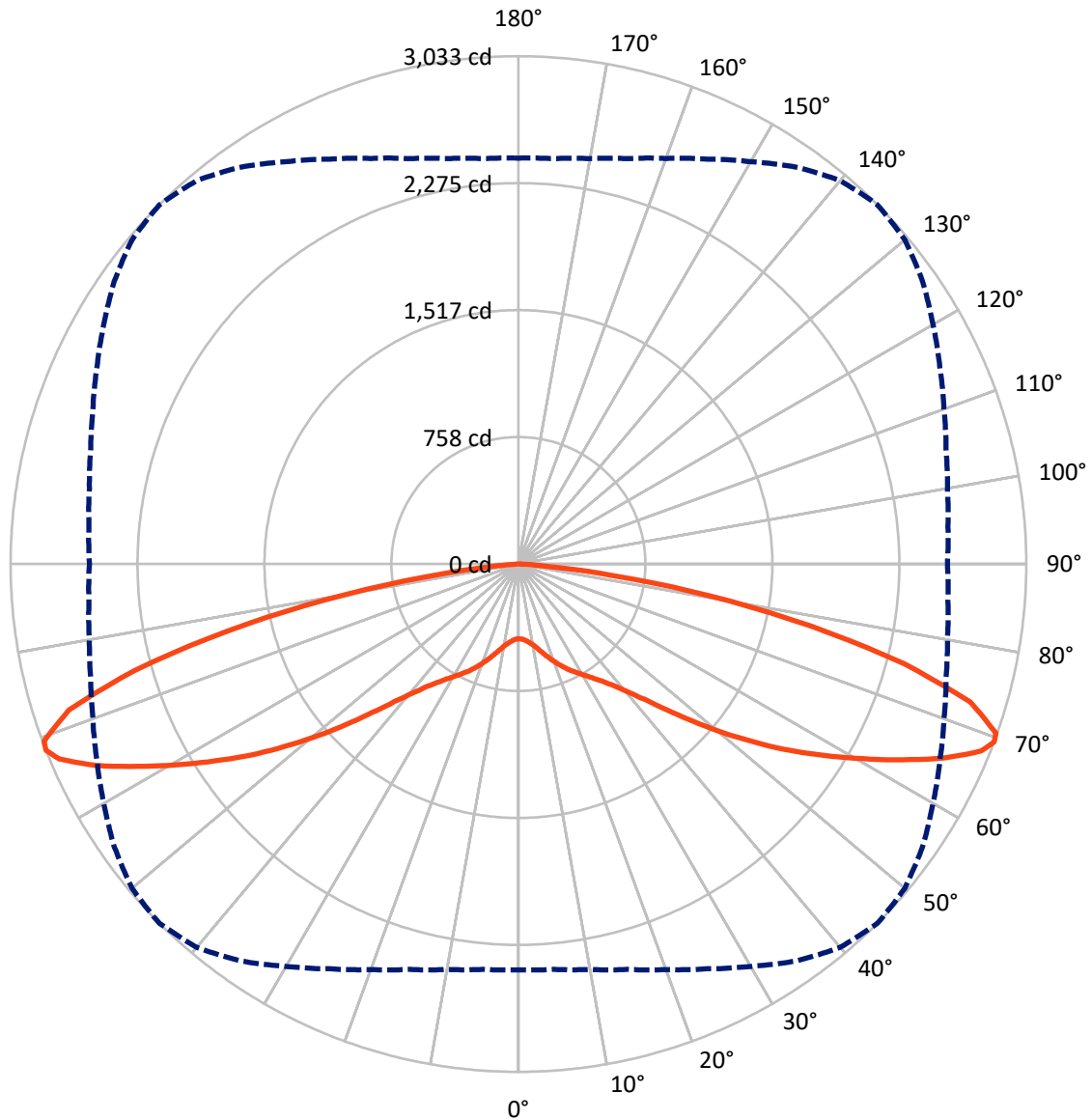


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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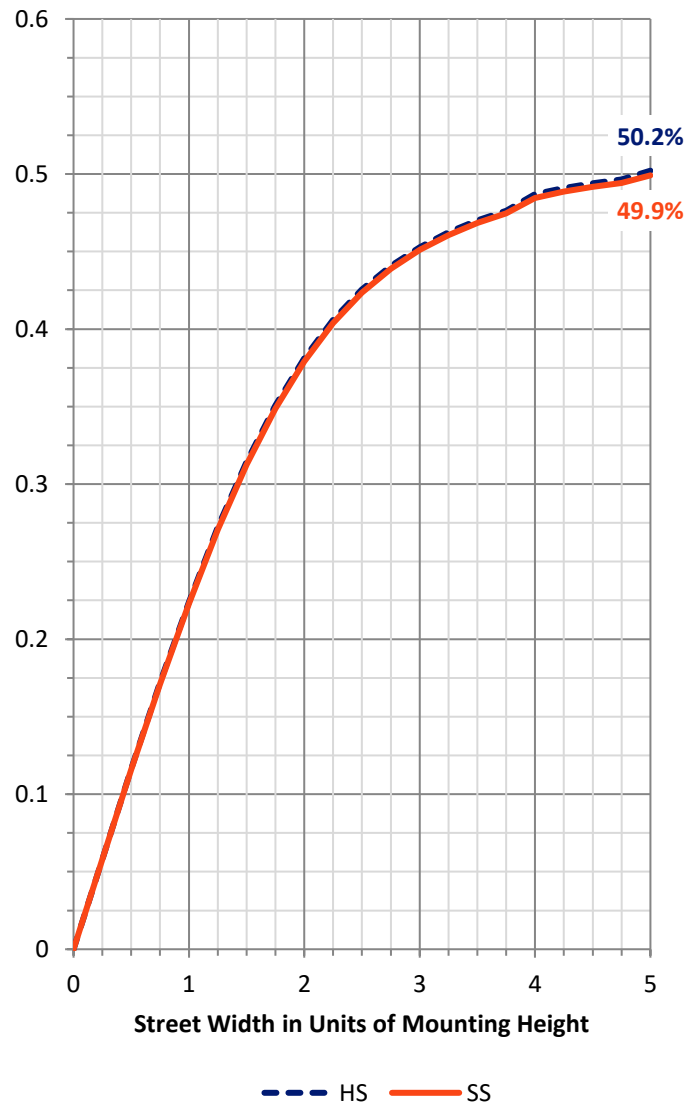
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4298.3	0.0	4298.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4298.3	0.0	4298.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8596.7	0.0	8596.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	0.5
10°-20°	158.3	1.8
20°-30°	320.5	3.7
30°-40°	537.4	6.3
40°-50°	947.9	11.0
50°-60°	1671.6	19.4
60°-70°	2552.0	29.7
70°-80°	2132.5	24.8
80°-90°	231.7	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°	8596.7	100.0
0°-180°	8596.7	100.0



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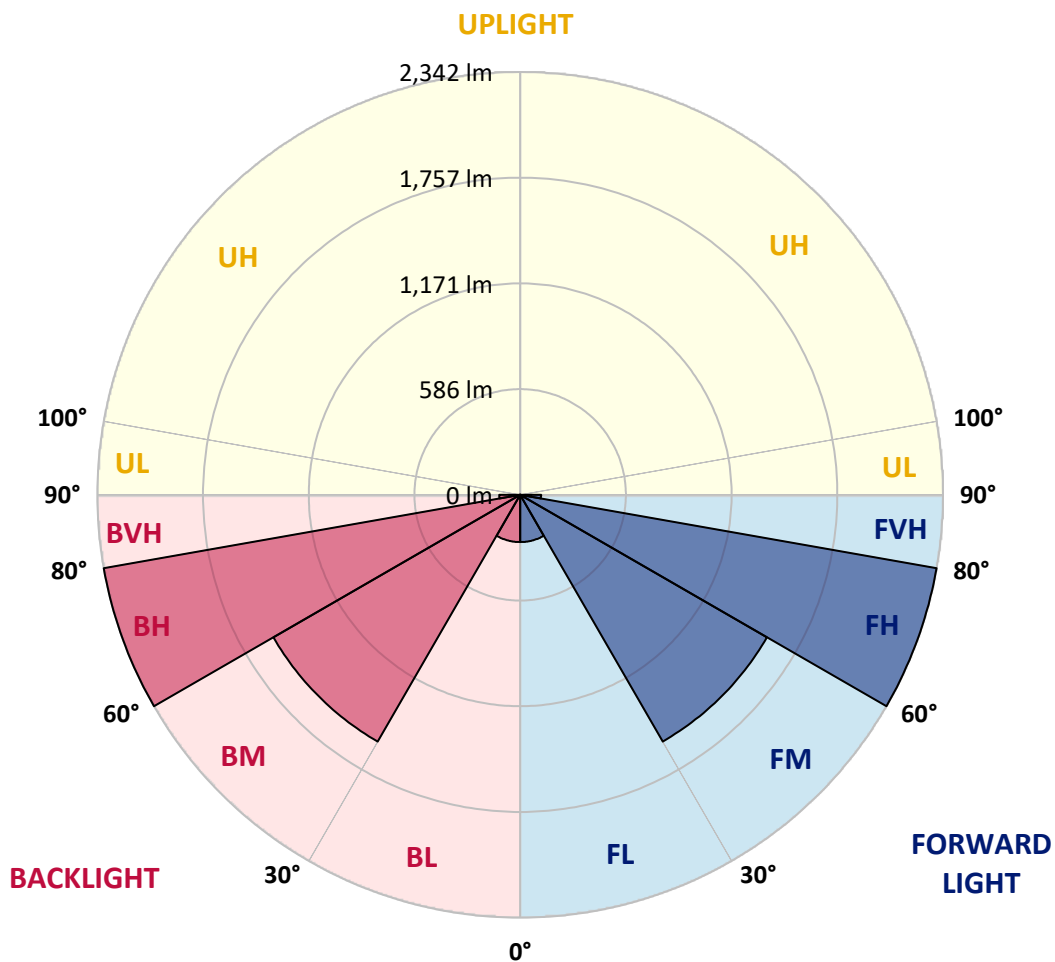
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.8	3.0			
FM	(30°-60°)	1578.4	18.4			
FH	(60°-80°)	2342.2	27.2			G2/5000
FVH	(80°-90°)	115.9	1.3			G2/225
BL	(0°-30°)	261.8	3.0	B1/500		
BM	(30°-60°)	1578.4	18.4	B2/2500		
BH	(60°-80°)	2342.2	27.2	B3/2500		G2/5000
BVH	(80°-90°)	115.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	450.0	450.9	450.0	450.0	450.0	450.0	450.0	449.1	449.1	449.1	450.0
5°	459.0	459.9	459.0	459.9	459.9	459.9	459.9	459.0	459.0	459.0	459.0
7.5°	473.4	473.4	473.4	474.3	473.4	473.4	474.3	473.4	473.4	473.4	473.4
10°	494.1	493.2	493.2	493.2	493.2	493.2	494.1	494.1	494.1	493.2	493.2
12.5°	519.3	518.4	519.3	519.3	520.2	520.2	520.2	520.2	520.2	520.2	519.3
15°	549.9	549.9	549.9	550.8	552.6	552.6	551.7	552.6	552.6	552.6	552.6
17.5°	584.1	585.9	584.1	585.0	585.9	585.0	586.8	587.7	588.6	587.7	585.0
20°	619.2	620.1	620.1	620.1	620.1	621.9	622.8	622.8	625.5	624.6	623.7
22.5°	652.5	654.3	654.3	655.2	655.2	657.9	657.9	657.9	659.7	661.5	659.7
25°	687.6	686.7	686.7	688.5	689.4	693.0	693.0	694.8	697.5	698.4	696.6
27.5°	719.1	718.2	718.2	720.9	721.8	726.3	726.3	729.9	731.7	732.6	730.8
30°	752.4	752.4	751.5	754.2	756.9	760.5	762.3	765.9	768.6	769.5	767.7
32.5°	792.0	790.2	791.1	792.9	794.7	798.3	801.0	805.5	809.1	810.0	808.2
35°	837.0	834.3	835.2	837.0	839.7	845.1	849.6	852.3	857.7	859.5	855.9
37.5°	886.5	887.4	886.5	891.0	895.5	901.8	907.2	910.8	916.2	918.9	916.2
40°	956.8	954.1	956.8	961.3	968.5	976.6	987.4	990.1	995.5	1000.9	994.6
42.5°	1047.7	1045.9	1052.2	1055.8	1063.9	1072.9	1086.4	1093.6	1101.7	1105.3	1099.9
45°	1166.5	1166.5	1173.7	1174.6	1187.2	1198.9	1217.8	1226.8	1242.1	1242.1	1242.1
47.5°	1297.9	1303.3	1307.8	1316.8	1325.8	1347.4	1366.3	1386.1	1400.5	1402.3	1399.6
50°	1433.8	1439.2	1452.7	1465.3	1485.1	1512.1	1532.8	1558.9	1571.5	1582.3	1578.7
52.5°	1584.1	1585.0	1601.2	1617.4	1646.2	1675.9	1709.2	1736.2	1758.7	1768.6	1760.5
55°	1748.8	1750.6	1765.0	1782.1	1814.5	1848.7	1890.1	1918.0	1946.8	1964.8	1951.3
57.5°	1927.0	1927.9	1942.3	1963.0	2001.7	2035.9	2075.5	2115.1	2142.1	2158.3	2149.3
60°	2124.1	2128.6	2139.4	2165.5	2202.4	2238.4	2278.0	2313.1	2344.6	2361.7	2352.7
62.5°	2334.7	2339.2	2354.5	2375.2	2407.6	2447.2	2485.0	2530.0	2556.1	2575.0	2561.5
65°	2476.0	2484.1	2508.4	2536.3	2584.0	2635.3	2679.4	2740.6	2772.2	2794.7	2782.1
67.5°	2485.0	2489.5	2519.2	2561.5	2625.4	2702.8	2792.9	2888.3	2950.4	2980.1	2958.5
69°	2423.8	2430.1	2458.9	2506.6	2577.7	2667.7	2774.9	2893.7	2989.1	3033.2	3012.5
70°	2354.5	2368.0	2399.5	2451.7	2521.0	2615.5	2726.2	2853.2	2964.8	3025.1	3009.8
72.5°	2208.7	2212.3	2233.0	2274.4	2327.5	2405.8	2510.2	2629.9	2736.1	2822.6	2835.2
75°	1960.3	1972.0	1987.3	2015.2	2042.2	2098.9	2169.1	2251.0	2313.1	2379.7	2382.4
77.5°	1481.5	1516.6	1528.3	1534.6	1546.3	1591.3	1652.5	1723.6	1774.9	1785.7	1783.9
80°	665.1	711.9	722.7	774.0	805.5	880.2	973.9	1082.8	1155.7	1163.8	1144.0
82.5°	130.5	139.5	162.9	203.4	277.2	321.3	382.5	459.0	529.2	569.7	545.4
85°	43.2	45.9	53.1	58.5	67.5	76.5	92.7	115.2	143.1	158.4	141.3
87.5°	17.1	17.1	19.8	21.6	23.4	23.4	23.4	21.6	20.7	17.1	15.3
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°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4
2.5°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	449.1
5°	459.0	458.1	458.1	457.2	457.2	457.2	457.2	457.2
7.5°	472.5	471.6	470.7	471.6	470.7	470.7	470.7	470.7
10°	493.2	491.4	490.5	489.6	489.6	489.6	488.7	488.7
12.5°	517.5	517.5	516.6	515.7	513.9	514.8	513.9	512.1
15°	550.8	549.0	548.1	547.2	545.4	545.4	545.4	544.5
17.5°	584.1	582.3	582.3	579.6	578.7	578.7	578.7	579.6
20°	621.0	618.3	616.5	614.7	612.9	613.8	612.0	613.8
22.5°	657.9	654.3	652.5	649.8	647.1	647.1	646.2	644.4
25°	693.9	689.4	687.6	684.9	681.3	681.3	679.5	677.7
27.5°	728.1	723.6	721.8	716.4	712.8	711.9	710.1	709.2
30°	765.9	760.5	757.8	752.4	747.0	746.1	743.4	743.4
32.5°	805.5	800.1	798.3	790.2	785.7	785.7	783.9	782.1
35°	855.0	846.9	845.1	837.0	830.7	830.7	828.9	829.8
37.5°	913.5	907.2	900.9	894.6	887.4	886.5	884.7	882.9
40°	991.9	984.7	977.5	968.5	962.2	960.4	957.7	956.8
42.5°	1096.3	1089.1	1074.7	1067.5	1061.2	1055.8	1054.9	1054.0
45°	1229.5	1220.5	1210.6	1197.1	1189.0	1177.3	1175.5	1171.0
47.5°	1389.7	1372.6	1355.5	1343.8	1331.2	1317.7	1315.0	1307.8
50°	1559.8	1546.3	1517.5	1498.6	1478.8	1465.3	1456.3	1453.6
52.5°	1742.5	1717.3	1688.5	1663.3	1634.5	1616.5	1600.3	1595.8
55°	1933.3	1897.3	1861.3	1831.6	1802.8	1781.2	1765.9	1758.7
57.5°	2124.1	2084.5	2044.9	2012.5	1988.2	1960.3	1945.0	1941.4
60°	2323.0	2285.2	2244.7	2212.3	2182.6	2158.3	2149.3	2132.2
62.5°	2533.6	2494.0	2456.2	2424.7	2386.9	2369.8	2354.5	2344.6
65°	2740.6	2694.7	2647.0	2613.7	2575.9	2551.6	2532.7	2519.2
67.5°	2900.9	2831.6	2767.7	2711.8	2660.5	2622.7	2598.4	2585.8
69°	2945.9	2859.5	2777.6	2704.6	2644.3	2602.0	2575.0	2562.4
70°	2940.5	2845.1	2755.0	2674.9	2609.2	2564.2	2538.1	2514.7
72.5°	2774.0	2686.6	2586.7	2499.4	2440.0	2396.8	2370.7	2358.1
75°	2367.1	2308.6	2236.6	2169.1	2125.9	2100.7	2068.3	2069.2
77.5°	1723.6	1725.4	1676.8	1607.5	1558.9	1549.9	1535.5	1521.1
80°	1069.3	983.8	928.0	853.2	798.3	750.6	729.9	684.9
82.5°	493.2	385.2	298.8	225.9	173.7	135.9	118.8	97.2
85°	109.8	83.7	69.3	55.8	47.7	44.1	36.0	33.3
87.5°	15.3	13.5	12.6	11.7	9.9	7.2	5.4	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)