

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: P180058

Luminaire Tested: **ICM-E01-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180058
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-E01-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) 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: 2961.7 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

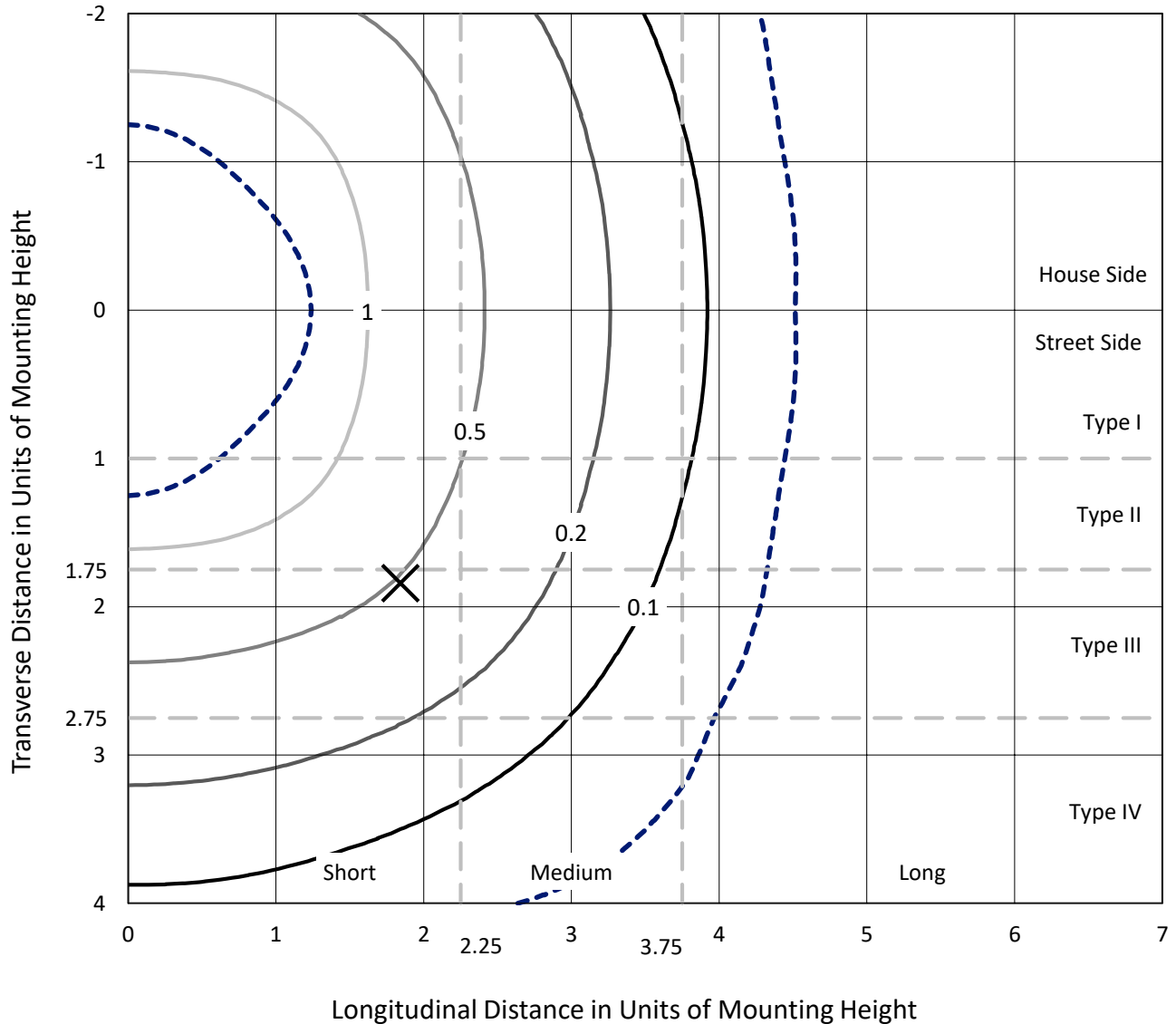
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180058
 CATALOG NUMBER: ICM-E01-LED-E1-5WQ

Iso-Footcandle Lines of Horizontal Illumination

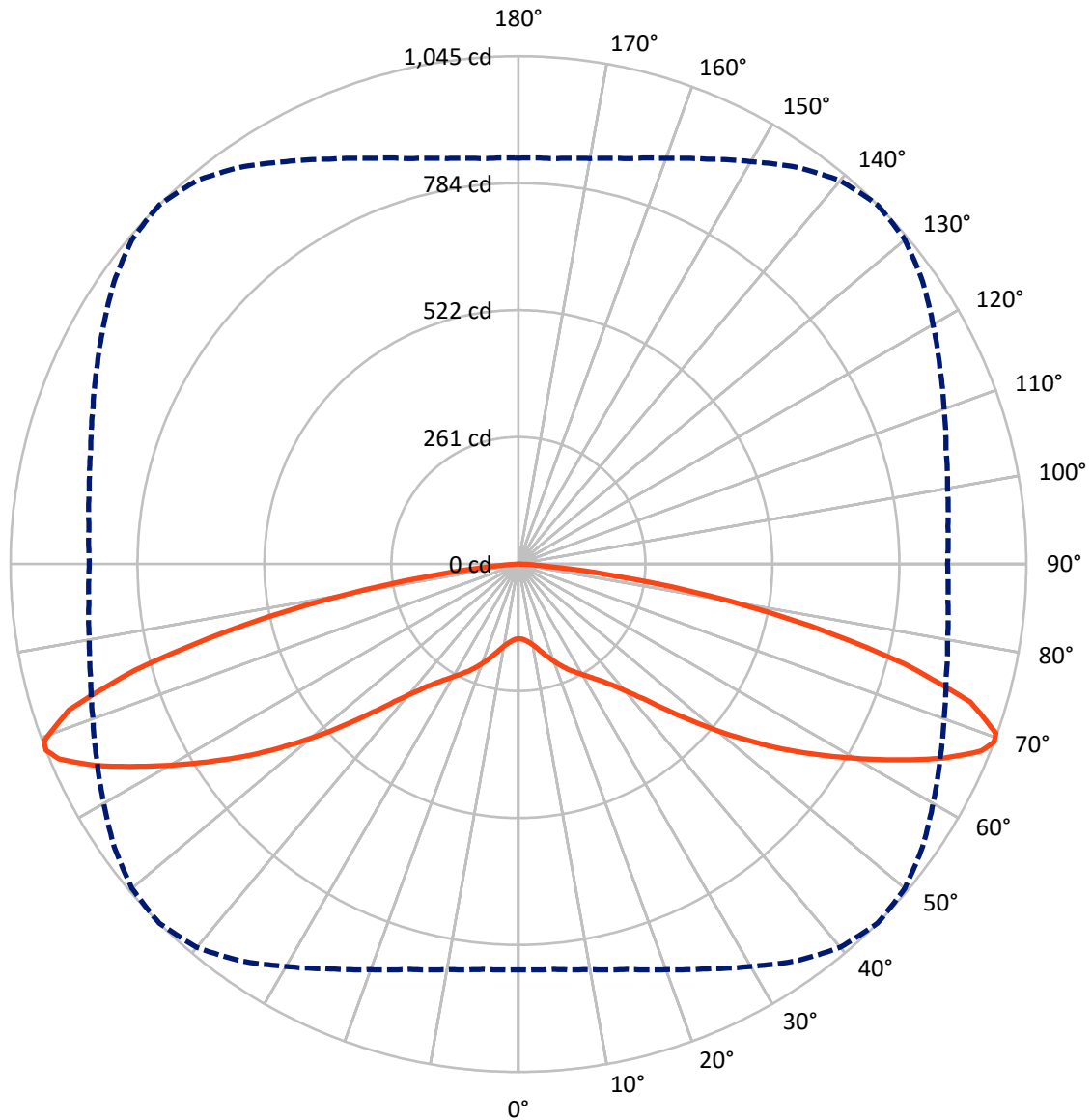
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P180058
CATALOG NUMBER: ICM-E01-LED-E1-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180058

CATALOG NUMBER: ICM-E01-LED-E1-5WQ

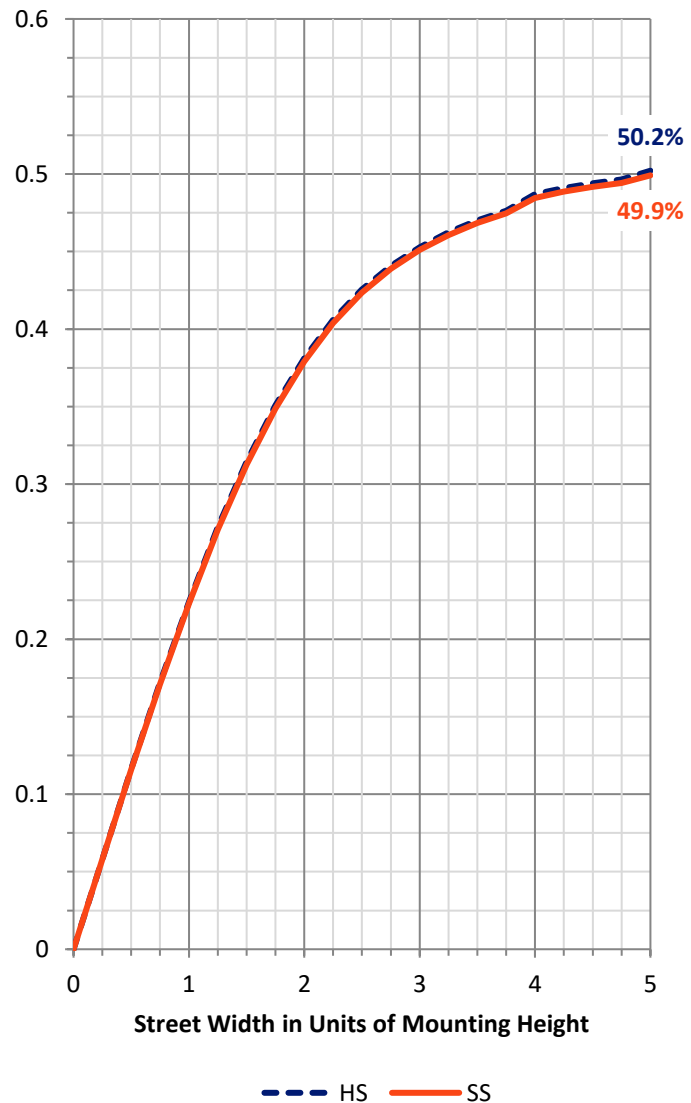
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1480.9	0.0	1480.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1480.9	0.0	1480.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	2961.7	0.0	2961.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	0.5
10°-20°	54.5	1.8
20°-30°	110.4	3.7
30°-40°	185.1	6.3
40°-50°	326.6	11.0
50°-60°	575.9	19.4
60°-70°	879.2	29.7
70°-80°	734.7	24.8
80°-90°	79.8	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°	2961.7	100.0
0°-180°	2961.7	100.0



REPORT NUMBER: P180058

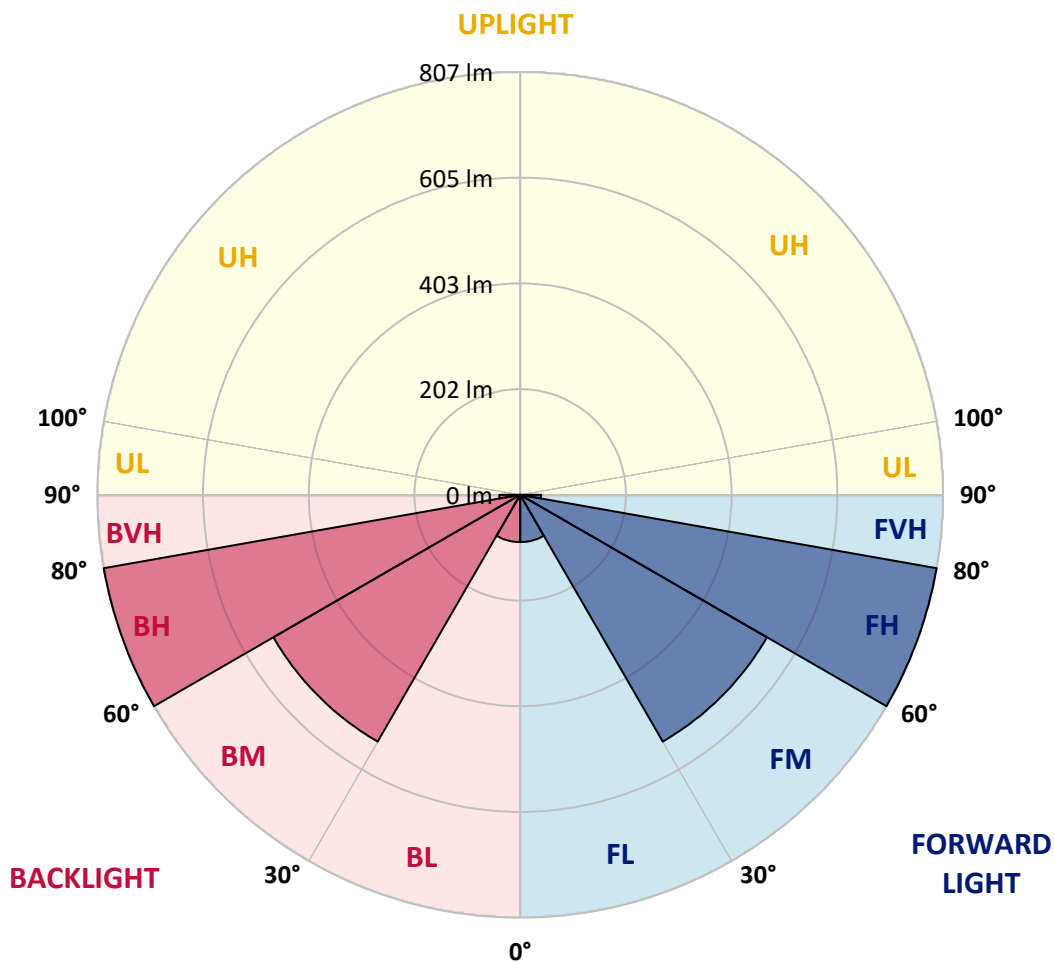
CATALOG NUMBER: ICM-E01-LED-E1-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.2	3.0			
FM (30°-60°)	543.8	18.4			
FH (60°-80°)	806.9	27.2			G1/1800
FVH (80°-90°)	39.9	1.3			G1/100
BL (0°-30°)	90.2	3.0	B0/110		
BM (30°-60°)	543.8	18.4	B1/1000		
BH (60°-80°)	806.9	27.2	B2/1000		G1/1800
BVH (80°-90°)	39.9	1.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P180058

CATALOG NUMBER: ICM-E01-LED-E1-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
2.5°	155.1	155.3	155.1	155.1	155.1	155.1	155.1	154.7	154.7	154.7	155.1
5°	158.1	158.4	158.1	158.4	158.4	158.4	158.4	158.1	158.1	158.1	158.1
7.5°	163.1	163.1	163.1	163.4	163.1	163.1	163.4	163.1	163.1	163.1	163.1
10°	170.2	170.0	170.0	170.0	170.0	170.0	170.2	170.2	170.2	170.0	170.0
12.5°	178.9	178.6	178.9	178.9	179.3	179.3	179.3	179.3	179.3	179.3	178.9
15°	189.5	189.5	189.5	189.8	190.4	190.4	190.0	190.4	190.4	190.4	190.4
17.5°	201.2	201.9	201.2	201.6	201.9	201.6	202.1	202.5	202.8	202.5	201.6
20°	213.3	213.7	213.7	213.7	213.7	214.2	214.6	214.6	215.5	215.2	214.9
22.5°	224.8	225.4	225.4	225.8	225.8	226.7	226.7	226.7	227.3	227.9	227.3
25°	236.9	236.6	236.6	237.2	237.5	238.8	238.8	239.4	240.3	240.7	240.0
27.5°	247.7	247.4	247.4	248.4	248.7	250.2	250.2	251.4	252.1	252.4	251.8
30°	259.3	259.3	258.9	259.8	260.7	262.0	262.6	263.9	264.8	265.1	264.5
32.5°	272.8	272.3	272.6	273.2	273.8	275.1	276.0	277.5	278.8	279.1	278.4
35°	288.4	287.4	287.7	288.4	289.3	291.2	292.7	293.7	295.5	296.1	294.9
37.5°	305.4	305.8	305.4	307.0	308.6	310.7	312.6	313.8	315.6	316.6	315.6
40°	329.6	328.7	329.6	331.2	333.7	336.5	340.2	341.1	343.0	344.8	342.6
42.5°	360.9	360.3	362.5	363.7	366.5	369.6	374.2	376.7	379.5	380.7	378.9
45°	401.9	401.9	404.4	404.7	409.0	413.0	419.5	422.6	427.9	427.9	427.9
47.5°	447.2	449.0	450.5	453.7	456.7	464.2	470.7	477.5	482.5	483.1	482.1
50°	494.0	495.8	500.5	504.8	511.6	520.9	528.1	537.0	541.4	545.1	543.9
52.5°	545.8	546.0	551.6	557.2	567.2	577.4	588.8	598.1	605.9	609.3	606.5
55°	602.5	603.1	608.1	614.0	625.1	636.9	651.2	660.7	670.7	676.9	672.3
57.5°	663.9	664.2	669.1	676.3	689.6	701.4	715.1	728.7	738.0	743.5	740.5
60°	731.8	733.3	737.0	746.1	758.8	771.2	784.8	796.9	807.7	813.7	810.5
62.5°	804.4	805.9	811.2	818.3	829.5	843.1	856.1	871.6	880.7	887.2	882.5
65°	853.0	855.8	864.2	873.8	890.2	907.9	923.1	944.2	955.1	962.8	958.4
67.5°	856.1	857.7	867.9	882.5	904.5	931.2	962.1	995.1	1016.5	1026.7	1019.3
69°	835.1	837.2	847.2	863.5	888.1	919.1	956.0	996.9	1029.8	1044.9	1037.9
70°	811.2	815.8	826.7	844.7	868.6	901.1	939.3	983.0	1021.4	1042.1	1036.9
72.5°	760.9	762.1	769.3	783.5	801.9	828.8	864.8	906.1	942.6	972.4	976.8
75°	675.4	679.4	684.7	694.2	703.5	723.1	747.3	775.5	796.9	819.8	820.7
77.5°	510.4	522.5	526.5	528.7	532.7	548.2	569.3	593.8	611.4	615.2	614.6
80°	229.1	245.3	249.0	266.7	277.5	303.3	335.5	373.0	398.1	400.9	394.1
82.5°	44.9	48.1	56.1	70.0	95.5	110.7	131.8	158.1	182.3	196.3	187.9
85°	14.9	15.8	18.3	20.2	23.3	26.3	31.9	39.7	49.3	54.6	48.7
87.5°	5.9	5.9	6.8	7.4	8.1	8.1	8.1	7.4	7.2	5.9	5.3
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: P180058

CATALOG NUMBER: ICM-E01-LED-E1-5WQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	153.8	153.8	153.8	153.8	153.8	153.8	153.8	153.8
2.5°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7
5°	158.1	157.9	157.9	157.5	157.5	157.5	157.5	157.5
7.5°	162.8	162.5	162.1	162.5	162.1	162.1	162.1	162.1
10°	170.0	169.3	169.0	168.7	168.7	168.7	168.4	168.4
12.5°	178.3	178.3	178.0	177.7	177.0	177.4	177.0	176.5
15°	189.8	189.1	188.8	188.6	187.9	187.9	187.9	187.6
17.5°	201.2	200.7	200.7	199.7	199.4	199.4	199.4	199.7
20°	214.0	213.0	212.4	211.8	211.2	211.4	210.9	211.4
22.5°	226.7	225.4	224.8	223.9	223.0	223.0	222.6	222.0
25°	239.1	237.5	236.9	236.0	234.7	234.7	234.1	233.5
27.5°	250.9	249.3	248.7	246.8	245.6	245.3	244.7	244.4
30°	263.9	262.0	261.1	259.3	257.4	257.0	256.1	256.1
32.5°	277.5	275.6	275.1	272.3	270.7	270.7	270.0	269.5
35°	294.6	291.8	291.2	288.4	286.2	286.2	285.6	285.9
37.5°	314.7	312.6	310.4	308.2	305.8	305.4	304.8	304.2
40°	341.7	339.3	336.7	333.7	331.4	330.9	330.0	329.6
42.5°	377.7	375.2	370.2	367.7	365.6	363.7	363.4	363.1
45°	423.5	420.5	417.0	412.4	409.6	405.6	404.9	403.4
47.5°	478.8	472.8	467.0	463.0	458.6	454.0	453.0	450.5
50°	537.4	532.7	522.8	516.3	509.5	504.8	501.7	500.7
52.5°	600.3	591.6	581.7	573.0	563.1	556.9	551.4	549.8
55°	666.1	653.7	641.2	631.0	621.1	613.7	608.4	605.9
57.5°	731.8	718.1	704.5	693.3	684.9	675.4	670.1	668.8
60°	800.3	787.3	773.3	762.1	751.9	743.5	740.5	734.6
62.5°	872.8	859.3	846.2	835.4	822.3	816.5	811.2	807.7
65°	944.2	928.4	911.9	900.5	887.4	879.1	872.6	867.9
67.5°	999.4	975.5	953.5	934.2	916.6	903.5	895.2	890.9
69°	1014.9	985.1	956.9	931.8	911.0	896.5	887.2	882.8
70°	1013.0	980.2	949.1	921.6	898.9	883.4	874.4	866.3
72.5°	955.6	925.6	891.2	861.1	840.7	825.8	816.7	812.4
75°	815.5	795.4	770.5	747.3	732.4	723.7	712.6	712.8
77.5°	593.8	594.4	577.7	553.8	537.0	534.0	529.0	524.0
80°	368.4	338.9	319.7	294.0	275.1	258.6	251.4	236.0
82.5°	170.0	132.7	103.0	77.9	59.8	46.8	40.9	33.5
85°	37.9	28.8	23.9	19.3	16.5	15.2	12.4	11.4
87.5°	5.3	4.7	4.4	4.0	3.4	2.5	1.9	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)