

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: P180018

Luminaire Tested: **ICS-E01-LED-E1-5MQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180018
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E01-LED-E1-5MQ
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

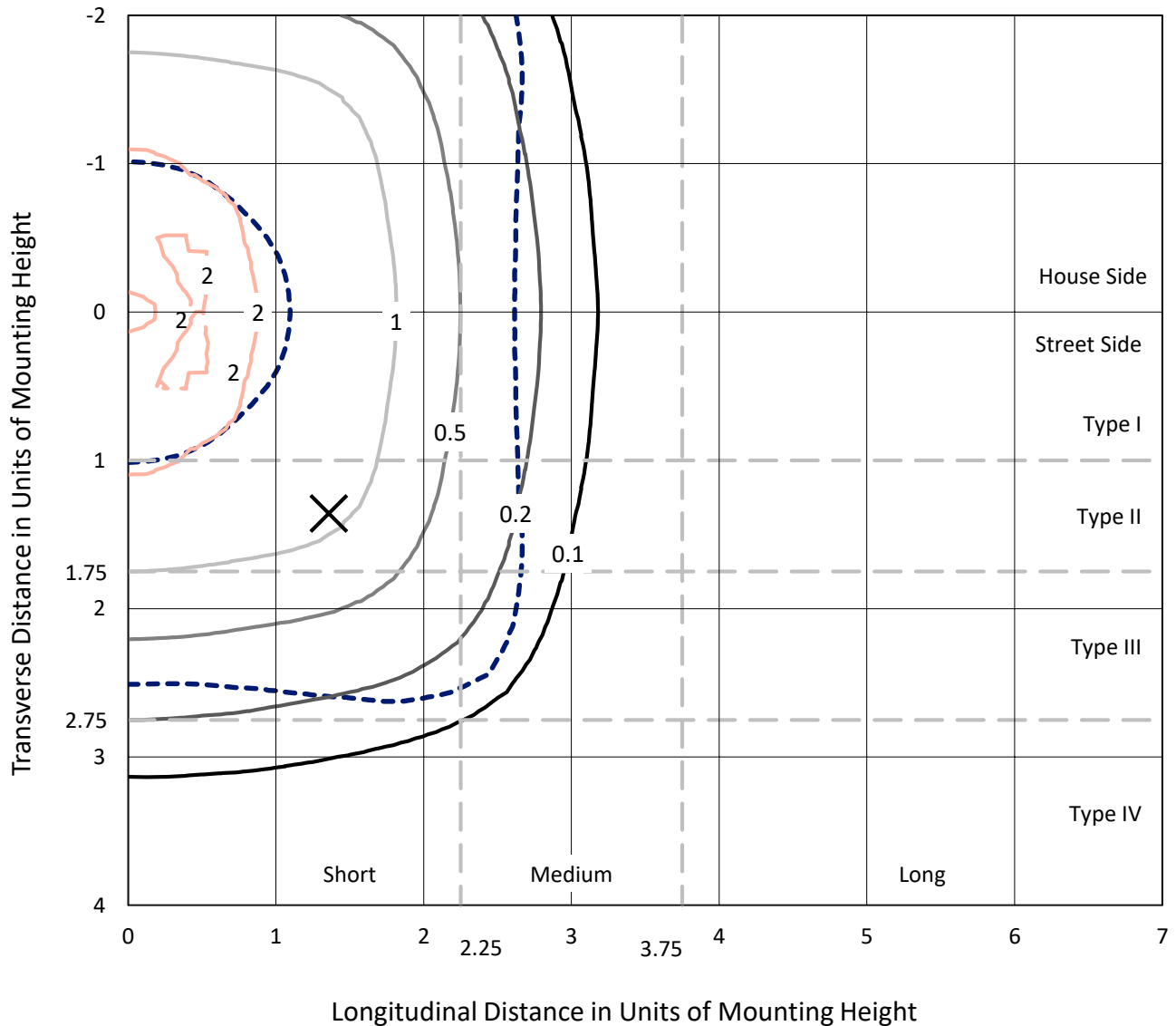
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

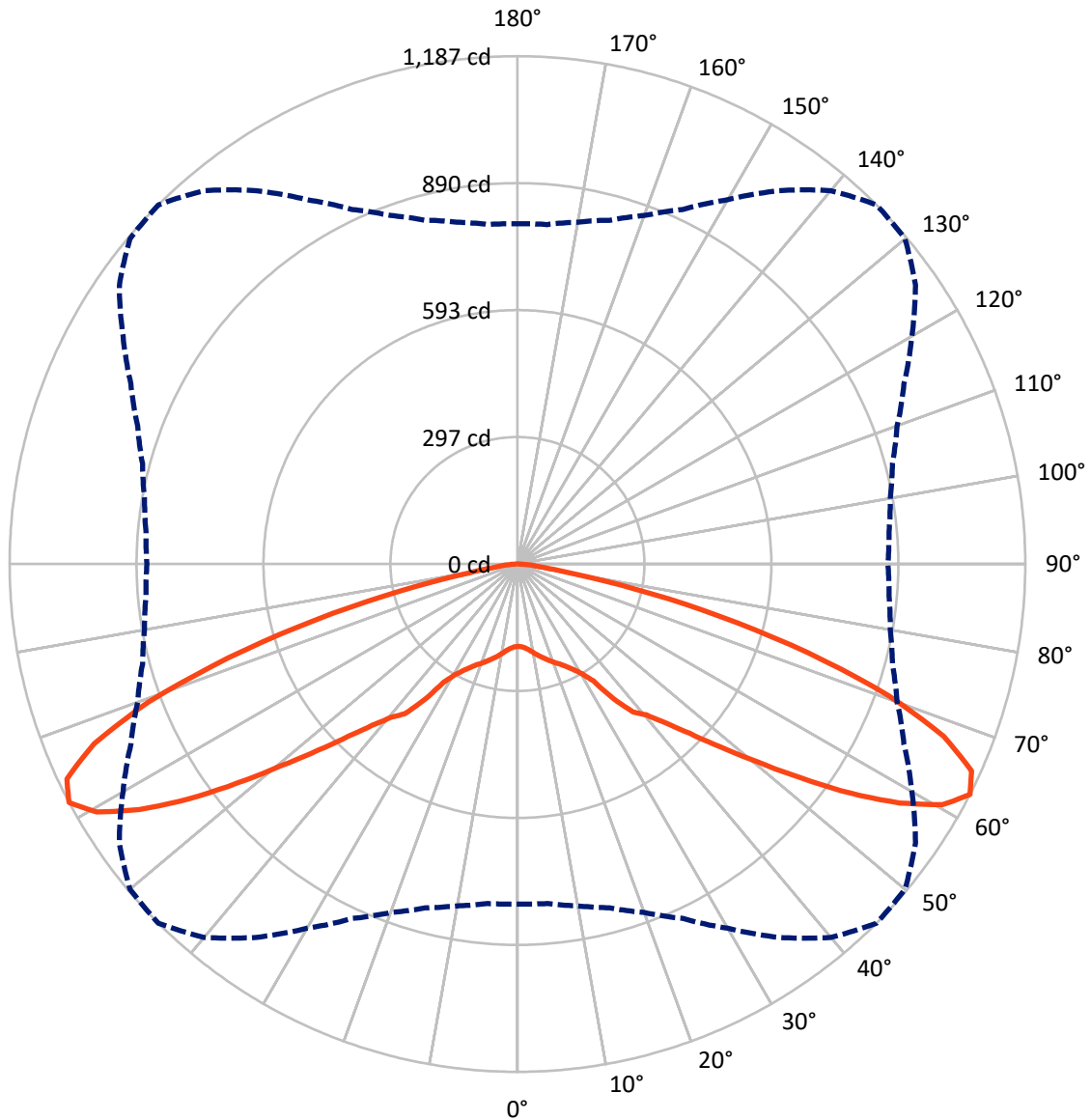
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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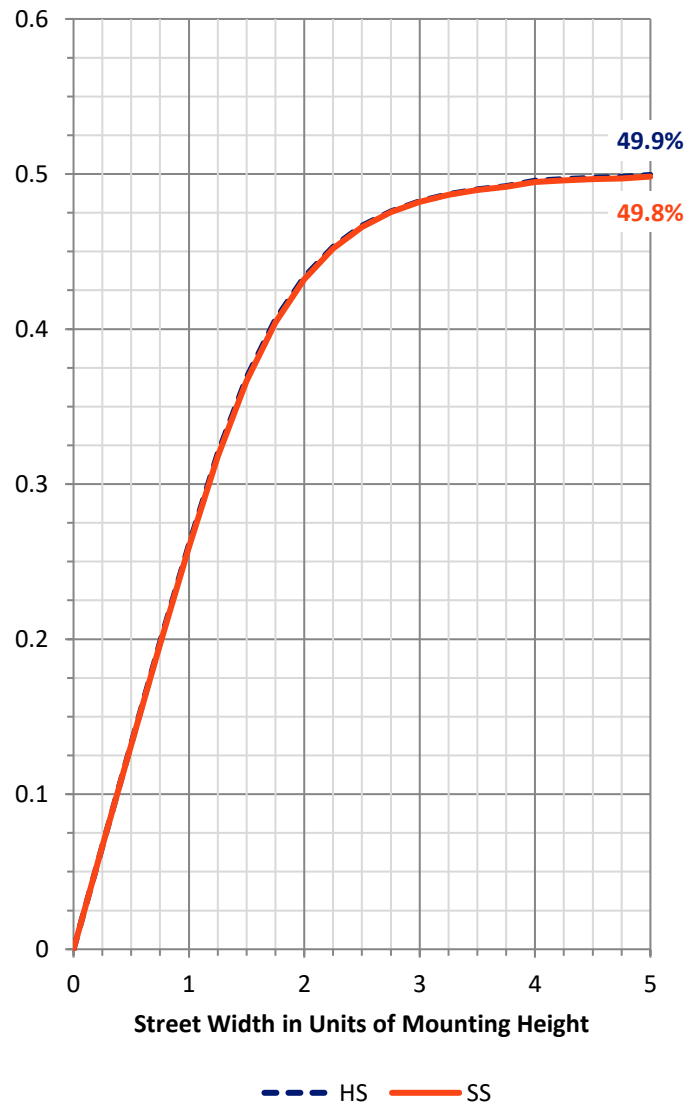
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.7	0.0	1450.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1450.7	0.0	1450.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	2901.5	0.0	2901.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.7
10°-20°	65.2	2.2
20°-30°	126.2	4.3
30°-40°	244.3	8.4
40°-50°	441.0	15.2
50°-60°	766.9	26.4
60°-70°	870.6	30.0
70°-80°	337.5	11.6
80°-90°	30.5	1.0
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°	2901.5	100.0
0°-180°	2901.5	100.0



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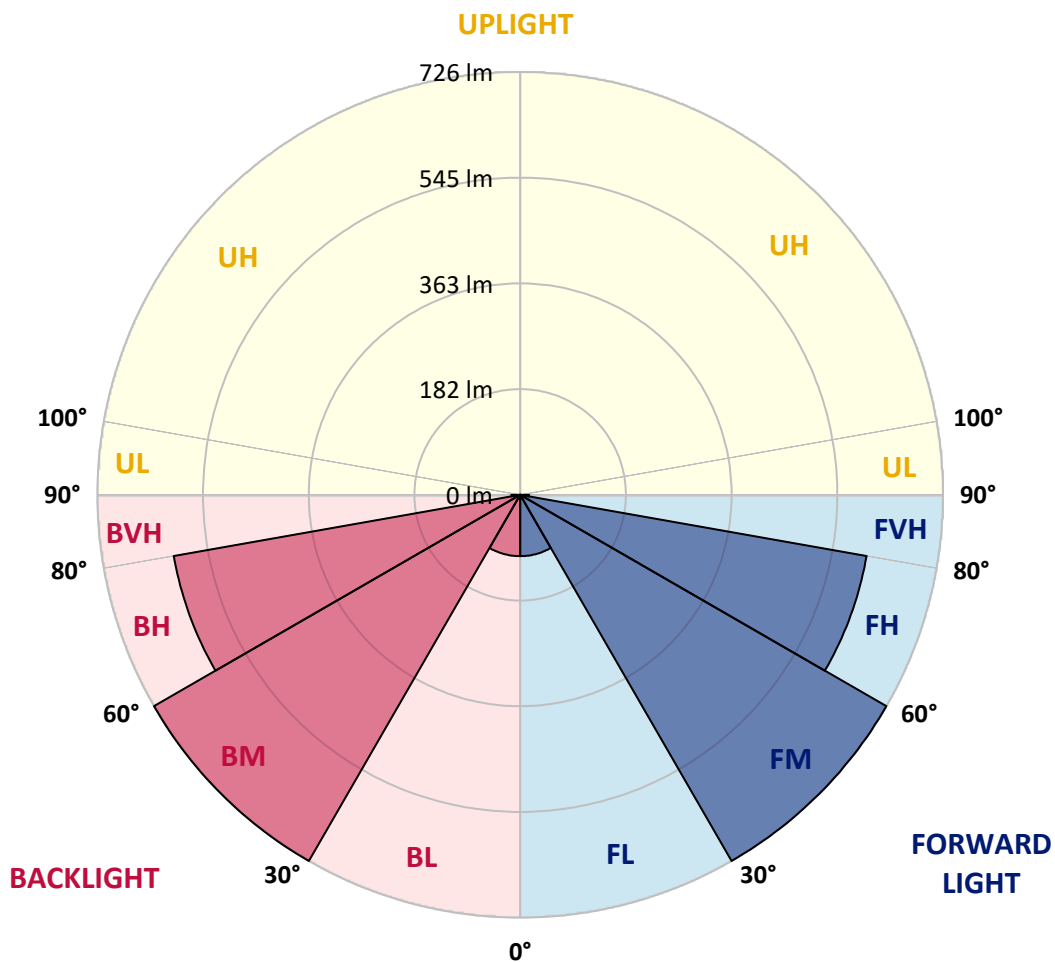
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.3	3.6			
FM	(30°-60°)	726.1	25.0			
FH	(60°-80°)	604.1	20.8			G0/660
FVH	(80°-90°)	15.2	0.5			G1/100
BL	(0°-30°)	105.3	3.6	B0/110		
BM	(30°-60°)	726.1	25.0	B1/1000		
BH	(60°-80°)	604.1	20.8	B2/1000		G0/660
BVH	(80°-90°)	15.2	0.5			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	193.8	194.4	194.2	194.0	194.0	194.0	193.8	193.4	193.2	193.5	193.8
5°	198.3	198.3	198.3	198.3	198.0	198.0	197.7	197.4	197.6	197.2	197.1
7.5°	205.2	204.8	204.8	204.6	204.6	204.3	203.9	203.2	203.4	203.2	203.1
10°	213.3	213.4	213.0	213.4	212.7	212.6	212.0	211.6	211.5	211.0	211.0
12.5°	223.0	222.6	222.6	222.3	222.0	221.7	220.8	220.6	220.0	219.8	219.3
15°	232.2	232.0	231.4	230.8	230.7	230.4	229.4	228.8	228.6	227.8	227.2
17.5°	241.4	241.0	240.3	240.0	239.4	239.0	238.0	237.2	236.7	236.4	235.6
20°	251.1	250.8	250.0	249.4	248.7	248.1	246.8	246.0	245.6	245.1	244.5
22.5°	263.2	262.6	261.4	260.4	258.8	258.2	256.4	255.3	254.6	254.0	253.6
25°	276.5	276.6	275.0	273.6	271.6	270.0	267.8	266.6	265.8	265.2	265.0
27.5°	293.0	293.1	291.6	289.6	286.6	284.8	281.8	280.4	279.9	279.3	279.2
30°	319.0	317.7	315.2	312.0	309.3	305.4	301.0	299.6	298.0	297.6	297.6
32.5°	367.0	366.3	364.2	356.4	352.8	344.7	337.0	332.7	327.8	325.4	323.8
35°	400.7	400.4	398.7	396.0	393.8	392.1	387.6	386.8	386.0	386.0	387.2
37.5°	425.4	423.6	423.3	423.8	423.2	423.4	427.0	432.0	436.2	438.3	438.0
40°	462.0	459.4	461.0	459.9	458.6	458.2	459.4	461.4	463.4	463.4	462.9
42.5°	509.8	511.0	511.6	507.3	504.4	503.7	506.6	506.0	507.9	507.2	505.2
45°	581.0	580.2	579.2	573.9	569.4	565.8	566.6	565.5	565.6	564.4	563.0
47.5°	652.7	655.2	650.8	648.3	643.2	640.6	642.8	641.0	644.4	638.1	635.1
50°	722.3	724.1	722.6	719.0	719.0	722.6	725.1	728.4	733.2	726.0	715.2
52.5°	779.3	780.8	783.0	786.1	793.4	801.0	811.8	823.4	832.6	831.2	818.9
55°	814.1	815.9	819.6	830.0	843.2	863.3	887.8	914.6	935.6	945.8	936.8
57.5°	825.8	827.2	837.4	849.8	870.4	900.2	941.2	987.5	1027.8	1053.5	1049.4
60°	823.1	823.1	833.4	850.6	879.4	919.0	976.8	1041.1	1102.8	1141.3	1135.6
62.5°	794.7	796.2	811.0	831.6	866.4	913.8	982.8	1065.0	1138.9	1186.6	1182.0
65°	732.6	733.6	749.7	774.2	813.0	869.1	944.6	1035.6	1120.3	1166.2	1157.5
67.5°	632.2	633.3	646.3	674.0	715.0	773.7	855.2	955.2	1038.2	1074.6	1048.4
70°	503.0	506.0	514.3	543.6	574.8	632.2	707.2	807.3	885.6	920.0	891.2
72.5°	342.8	350.4	360.6	386.6	416.4	464.1	523.8	608.1	671.0	710.7	685.1
75°	193.0	203.9	207.0	226.7	251.2	288.9	332.6	393.0	456.4	488.7	457.8
77.5°	83.4	92.2	96.2	105.3	124.5	140.2	166.8	207.6	256.6	279.3	242.2
80°	41.1	43.2	44.8	47.7	53.1	58.2	70.8	88.6	108.8	113.8	90.6
82.5°	31.8	33.3	36.2	38.4	39.8	41.1	42.3	44.7	46.6	47.7	45.0
85°	22.4	24.3	27.4	30.0	31.5	32.6	33.6	34.4	32.6	29.7	31.2
87.5°	5.8	7.6	10.6	11.5	13.0	13.8	13.5	14.0	12.6	9.1	10.2
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°	192.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6
2.5°	193.6	193.5	193.6	193.6	193.6	193.5	193.5	193.5
5°	197.1	197.1	197.2	197.0	197.0	197.1	197.0	196.8
7.5°	203.0	202.8	202.8	202.6	202.8	202.6	202.6	202.5
10°	210.8	210.4	210.6	210.2	210.2	210.0	210.0	210.0
12.5°	219.2	218.7	218.8	218.4	217.6	217.8	218.0	217.8
15°	227.2	226.8	226.4	226.0	225.6	225.8	225.8	225.6
17.5°	235.5	234.6	234.4	234.0	233.8	233.8	233.8	234.0
20°	244.0	243.4	243.3	242.8	242.7	243.2	243.3	243.0
22.5°	253.2	252.9	253.2	252.9	253.4	253.6	253.8	253.5
25°	264.8	264.5	264.9	266.0	266.6	266.8	267.6	267.3
27.5°	279.6	279.3	280.4	281.8	282.8	284.2	285.0	285.3
30°	298.8	300.2	300.8	303.8	304.4	306.8	306.8	307.8
32.5°	326.7	329.2	333.8	338.4	344.8	349.5	349.5	351.9
35°	387.9	389.0	392.4	393.2	394.5	396.0	394.5	395.7
37.5°	434.8	430.2	426.9	422.2	419.4	419.4	419.7	419.4
40°	458.8	457.0	455.6	451.6	451.0	450.9	450.9	451.5
42.5°	501.8	497.4	495.0	491.7	490.6	490.4	490.2	490.5
45°	557.6	550.5	544.0	540.8	537.9	535.2	536.1	536.1
47.5°	622.5	611.6	601.0	595.3	590.4	588.2	586.7	586.2
50°	701.6	686.2	672.8	662.1	654.9	654.8	655.5	650.7
52.5°	798.5	774.3	757.5	743.1	736.3	735.6	733.2	730.5
55°	905.9	877.2	849.5	834.0	825.2	820.4	817.5	813.0
57.5°	1016.6	978.0	938.2	913.4	897.8	887.0	881.2	878.7
60°	1102.0	1049.3	996.6	956.9	931.0	914.9	905.0	900.9
62.5°	1135.6	1064.2	996.7	944.4	907.0	884.7	871.4	865.5
65°	1095.6	1011.0	934.1	876.4	834.6	809.8	795.3	789.0
67.5°	983.6	908.9	825.3	768.0	725.0	700.5	684.8	680.1
70°	824.6	748.2	668.4	617.2	578.8	558.9	542.6	540.6
72.5°	619.7	553.8	485.4	443.1	412.2	379.2	370.8	375.0
75°	397.2	335.6	274.6	236.6	208.4	176.8	164.7	167.7
77.5°	188.1	145.6	105.2	81.3	68.2	58.4	55.8	54.3
80°	69.8	56.6	50.0	47.4	45.6	44.0	42.8	41.4
82.5°	45.2	44.1	42.8	42.3	41.0	38.8	35.0	33.3
85°	33.8	33.8	32.0	32.1	31.0	28.4	24.8	22.8
87.5°	9.9	8.8	8.1	7.5	7.4	6.6	4.8	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)