

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: P140581

Luminaire Tested: **ECM-E01-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140581
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33688)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-5XQ-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3059.4 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

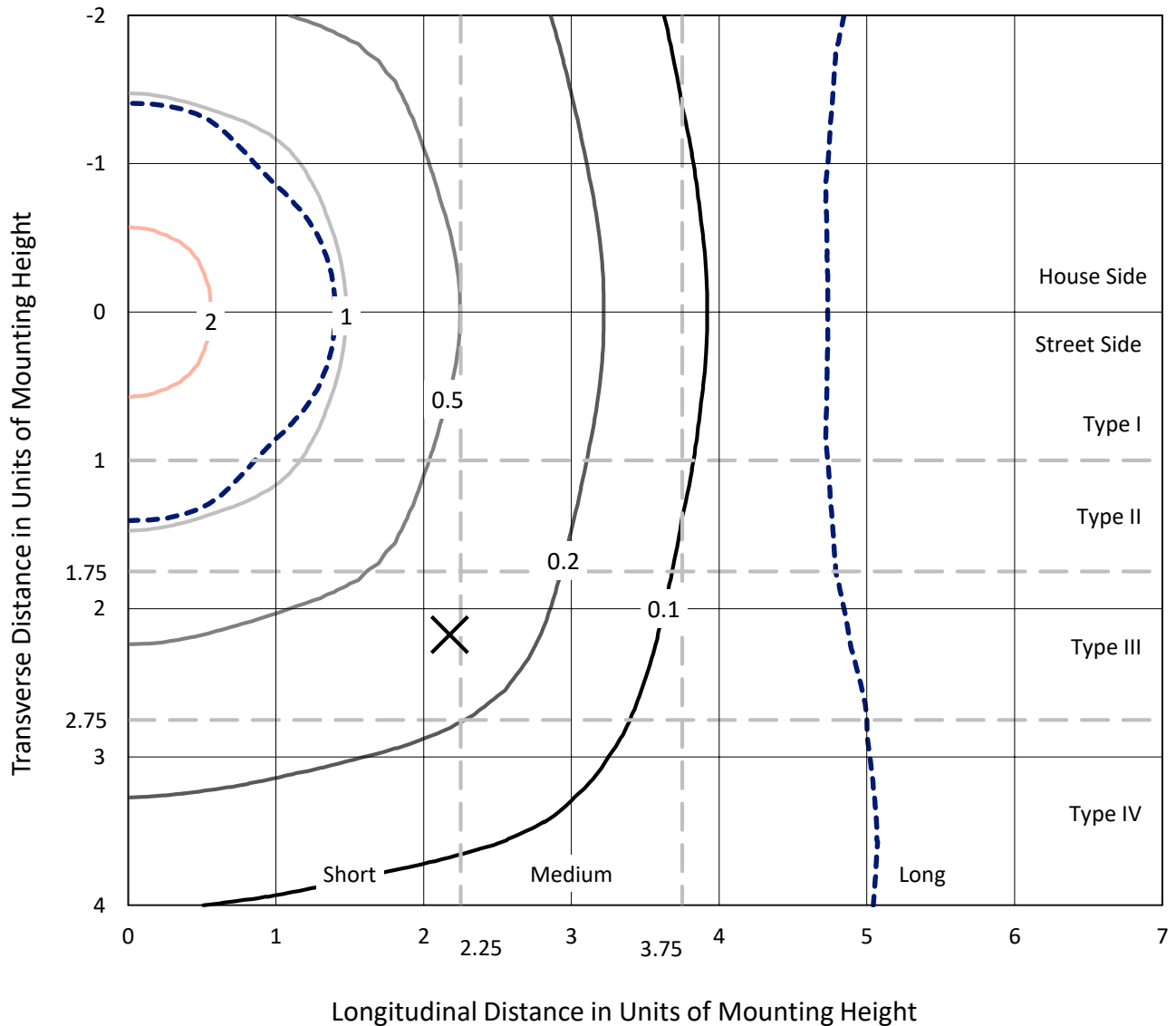
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

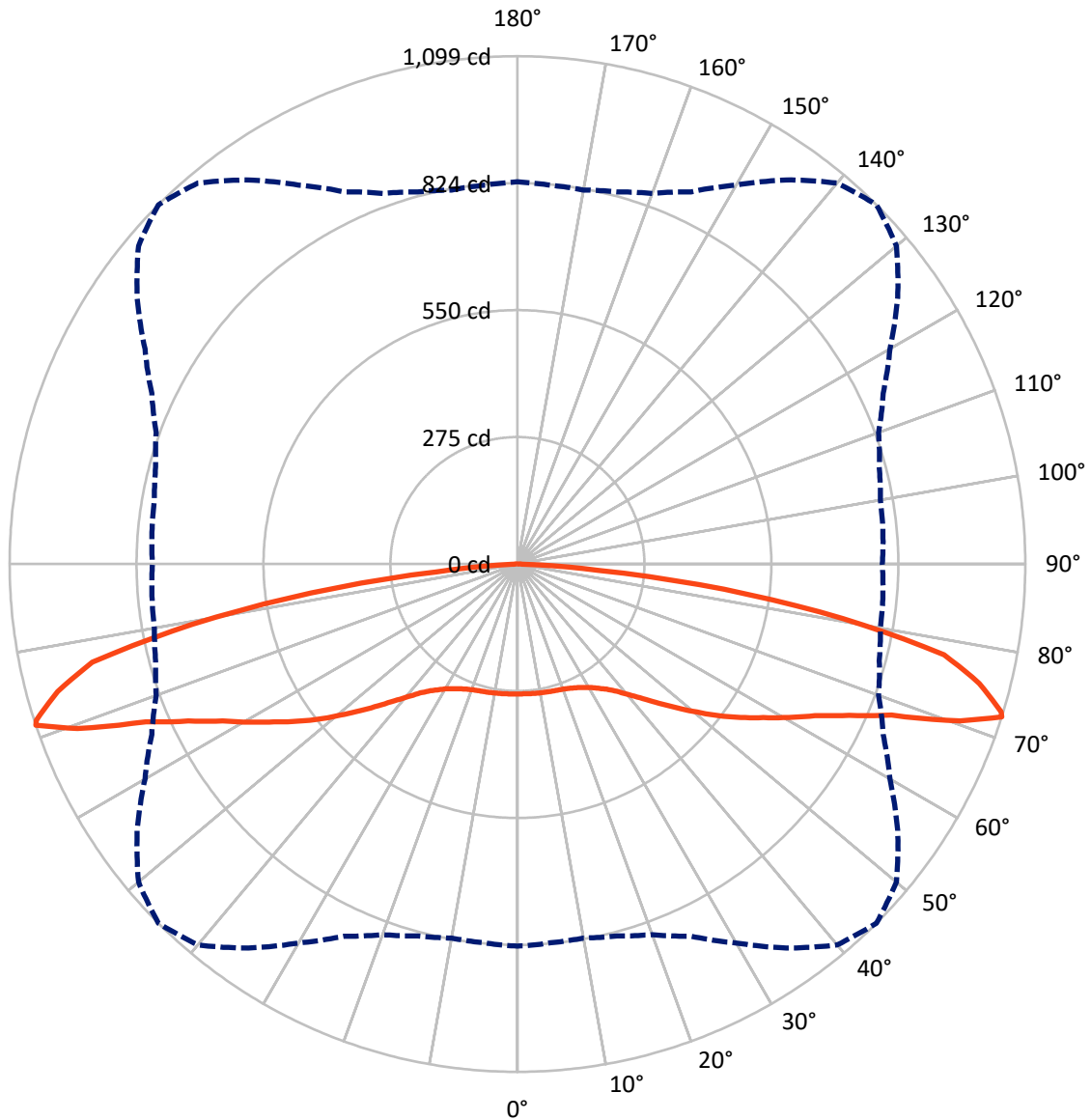
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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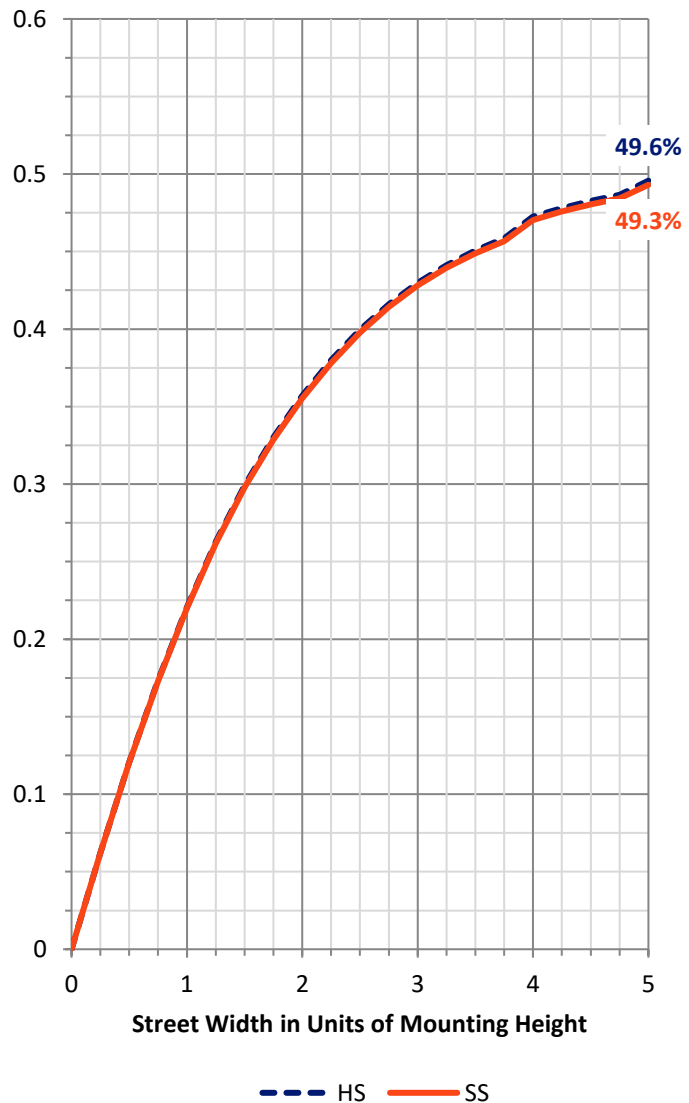
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.7	0.0	1529.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1529.7	0.0	1529.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3059.4	0.0	3059.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	0.9
10°-20°	81.2	2.7
20°-30°	137.3	4.5
30°-40°	208.9	6.8
40°-50°	330.8	10.8
50°-60°	506.9	16.6
60°-70°	744.2	24.3
70°-80°	844.2	27.6
80°-90°	178.8	5.8
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°	3059.4	100.0
0°-180°	3059.4	100.0



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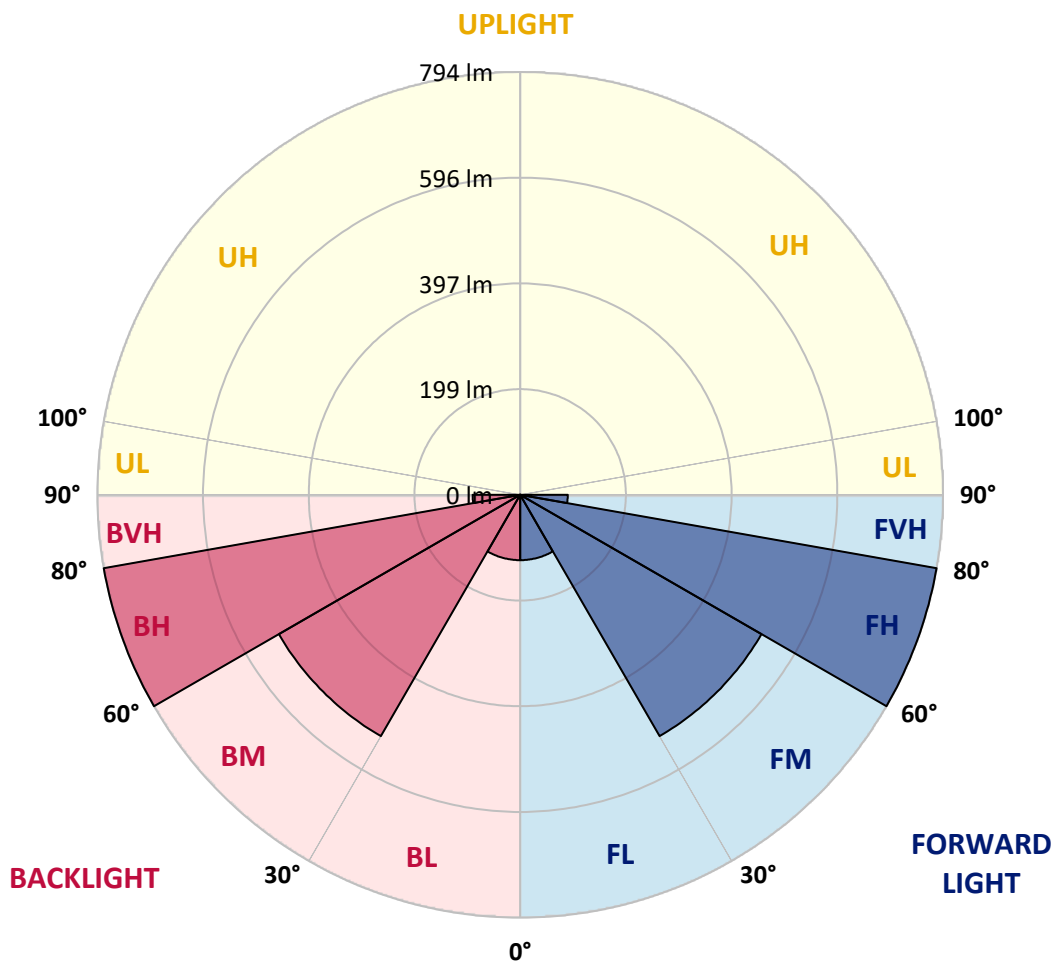
CATALOG NUMBER: ECM-E01-LED-E1-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	122.7	4.0			
FM	(30°-60°)	523.3	17.1			
FH	(60°-80°)	794.2	26.0			G1/1800
FVH	(80°-90°)	89.4	2.9			G1/100
BL	(0°-30°)	122.7	4.0	B1/500		
BM	(30°-60°)	523.3	17.1	B1/1000		
BH	(60°-80°)	794.2	26.0	B2/1000		G1/1800
BVH	(80°-90°)	89.4	2.9			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°	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2
2.5°	282.2	282.5	282.2	281.8	281.8	281.5	281.5	281.5	281.8	281.2	281.2
5°	282.9	283.2	282.9	282.2	282.2	282.2	281.8	281.8	282.2	281.8	281.8
7.5°	283.9	284.2	283.9	283.2	283.2	282.9	282.5	282.5	283.2	282.5	282.5
10°	284.9	285.6	284.9	284.2	284.2	283.9	283.5	283.5	283.9	283.2	283.2
12.5°	286.6	286.6	286.3	285.9	285.9	285.6	285.3	284.9	284.6	284.2	283.9
15°	288.0	288.3	287.7	287.3	287.0	286.6	286.3	286.3	285.6	285.3	285.3
17.5°	289.7	290.0	289.4	288.7	288.7	288.0	287.7	287.7	287.0	286.6	286.3
20°	291.4	291.8	291.1	290.7	290.4	290.0	289.4	289.7	289.4	288.7	288.7
22.5°	293.5	293.5	293.1	292.8	292.8	292.4	292.1	292.8	292.1	292.1	291.8
25°	295.5	295.9	295.5	295.5	295.9	295.9	296.2	296.9	296.9	296.5	296.2
27.5°	300.0	300.0	300.0	300.0	301.0	301.0	301.3	302.4	302.7	302.7	302.7
30°	305.8	306.1	305.8	305.8	306.8	307.1	308.2	309.2	309.9	309.9	310.2
32.5°	314.3	314.0	314.3	315.0	315.7	316.4	317.4	319.1	320.1	320.5	320.5
35°	325.3	325.6	325.3	325.6	327.0	328.0	329.0	331.1	331.8	332.5	332.8
37.5°	341.4	342.4	341.7	341.7	343.4	344.1	345.5	347.2	348.5	349.2	348.9
40°	364.6	364.3	363.6	363.9	364.3	365.0	366.3	369.7	371.5	371.5	371.5
42.5°	391.3	391.6	390.6	390.3	390.6	391.3	393.3	396.1	398.8	398.1	398.5
45°	421.7	419.3	420.0	419.3	419.7	422.1	425.5	426.9	429.6	429.6	430.3
47.5°	451.5	450.5	450.1	449.8	450.8	453.2	457.3	461.7	464.1	465.5	466.5
50°	485.0	483.3	483.0	483.3	483.6	484.3	492.2	496.6	502.4	503.5	503.1
52.5°	517.5	516.1	515.4	515.4	516.8	519.2	527.4	534.6	541.1	545.2	543.5
55°	552.7	552.7	550.7	550.0	552.0	554.4	565.7	573.9	583.2	586.2	581.5
57.5°	589.0	588.6	585.6	584.5	586.2	592.4	602.0	614.6	624.6	627.3	624.6
60°	624.6	624.6	622.8	622.2	623.9	631.4	643.0	657.0	669.0	674.2	669.7
62.5°	665.3	665.3	660.8	662.9	665.3	671.1	685.8	703.9	720.0	722.7	718.6
65°	711.4	713.5	710.1	709.4	712.5	723.4	740.2	763.1	781.9	789.1	782.9
67.5°	781.9	778.8	774.7	773.0	777.8	788.0	808.6	838.7	866.4	873.2	866.0
70°	855.1	852.0	850.6	856.1	866.4	887.9	919.4	961.5	1000.1	1016.5	1001.5
72°	827.0	822.9	821.9	833.5	853.4	888.6	946.8	1014.5	1076.0	1099.0	1070.6
72.5°	812.7	809.3	808.9	819.9	841.4	877.0	934.1	1003.9	1069.9	1094.9	1064.4
75°	754.5	751.1	754.5	766.8	788.4	826.7	884.8	950.2	1009.7	1032.6	1002.8
77.5°	674.2	668.0	671.1	688.2	712.1	753.8	815.4	892.7	950.2	944.0	899.9
80°	538.0	524.3	539.0	544.2	571.5	599.6	659.1	693.6	713.5	714.5	683.0
82.5°	235.0	240.5	258.9	274.3	293.8	326.3	350.2	387.5	431.0	451.1	426.9
85°	15.4	19.2	30.4	36.3	50.3	61.2	87.9	127.9	154.3	176.5	148.8
87.5°	2.7	3.8	6.8	8.2	8.9	9.9	9.9	13.7	14.4	11.6	13.0
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°	281.2	281.2	281.2	281.2	281.2	281.2	281.2	281.2
2.5°	281.2	281.2	281.5	281.2	281.2	281.2	280.8	280.8
5°	281.5	281.5	281.8	281.8	281.5	281.5	281.5	281.5
7.5°	282.5	282.2	282.5	282.5	282.2	282.2	281.8	282.2
10°	282.9	282.9	283.2	283.2	282.9	282.9	282.9	282.9
12.5°	283.9	283.9	283.9	284.2	283.9	283.9	284.2	283.9
15°	284.9	284.6	284.6	284.6	284.6	284.9	284.9	285.3
17.5°	285.9	285.9	285.6	285.9	285.9	286.3	286.3	286.3
20°	288.0	287.7	287.0	287.7	287.7	287.7	287.7	288.0
22.5°	291.1	290.4	289.7	289.7	289.4	289.7	289.4	289.4
25°	295.5	294.5	293.5	293.1	292.8	292.4	292.1	292.4
27.5°	302.0	300.6	299.3	298.6	298.3	297.6	297.2	297.2
30°	309.2	308.2	306.1	305.4	304.4	303.4	303.4	303.0
32.5°	320.1	318.8	316.4	315.4	313.6	312.6	312.3	312.3
35°	331.4	329.7	328.7	327.3	325.3	324.2	323.9	323.9
37.5°	348.5	346.5	345.1	343.4	343.1	341.7	341.7	341.7
40°	370.8	369.1	367.3	366.0	365.0	363.9	362.6	362.6
42.5°	398.1	395.4	394.4	392.7	391.3	390.3	389.6	389.6
45°	428.2	425.8	424.5	422.1	421.7	421.0	419.7	419.7
47.5°	462.1	458.7	455.9	455.2	453.5	451.8	451.1	451.5
50°	499.0	493.2	489.5	489.5	487.4	485.0	485.3	485.0
52.5°	537.0	530.5	525.7	522.3	519.9	519.6	519.9	519.6
55°	575.3	568.5	562.6	558.9	556.5	554.1	553.8	553.8
57.5°	615.0	606.4	597.2	593.8	591.4	590.0	590.0	590.4
60°	659.8	645.8	634.1	629.7	628.0	628.7	628.3	628.7
62.5°	705.3	689.2	675.5	670.4	668.0	667.7	670.4	671.4
65°	762.7	742.9	727.5	717.9	717.9	716.9	720.0	718.6
67.5°	837.6	809.6	790.8	775.4	775.7	776.8	781.2	780.9
70°	965.2	915.6	880.7	854.4	844.1	837.3	835.9	835.9
72°	1004.6	930.7	873.2	831.8	810.6	797.6	793.9	789.8
72.5°	994.3	918.4	860.2	817.1	795.2	782.2	776.4	771.3
75°	929.7	844.8	781.6	736.4	712.1	696.4	693.3	690.9
77.5°	820.2	745.0	679.6	632.8	608.5	588.3	580.1	579.4
80°	632.4	564.7	514.4	477.8	455.9	440.9	441.6	436.8
82.5°	373.2	316.0	272.9	224.0	191.9	173.4	161.8	160.4
85°	109.8	74.6	47.5	34.2	24.6	18.5	13.7	12.3
87.5°	9.9	7.9	6.5	5.5	5.1	4.4	2.7	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)