

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: P140584

Luminaire Tested: **ECM-F01-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140584
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-F01-LED-E1-5XQ-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2248.1 lumens
Efficiency: N/A
Efficacy: 86.8 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

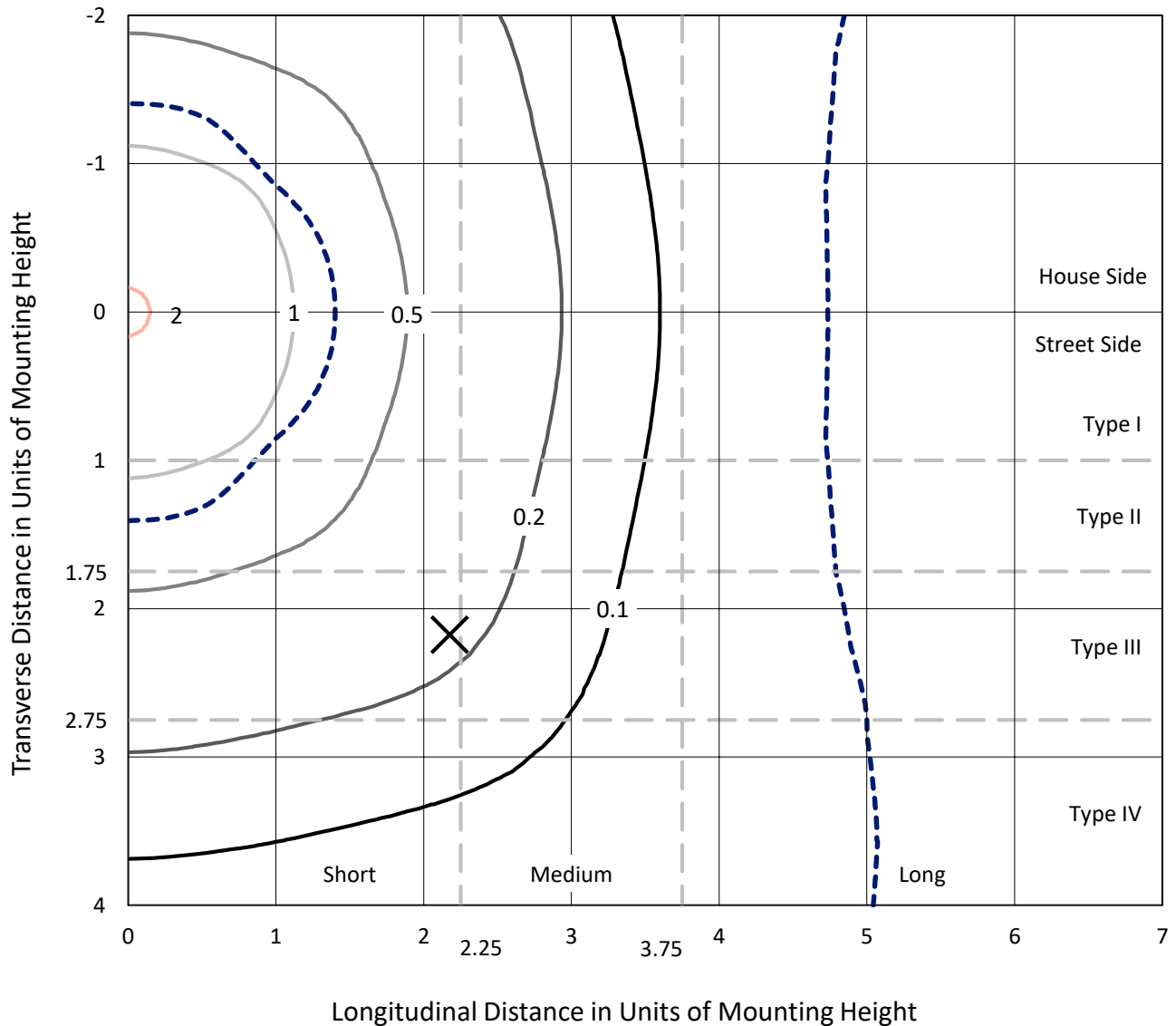
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

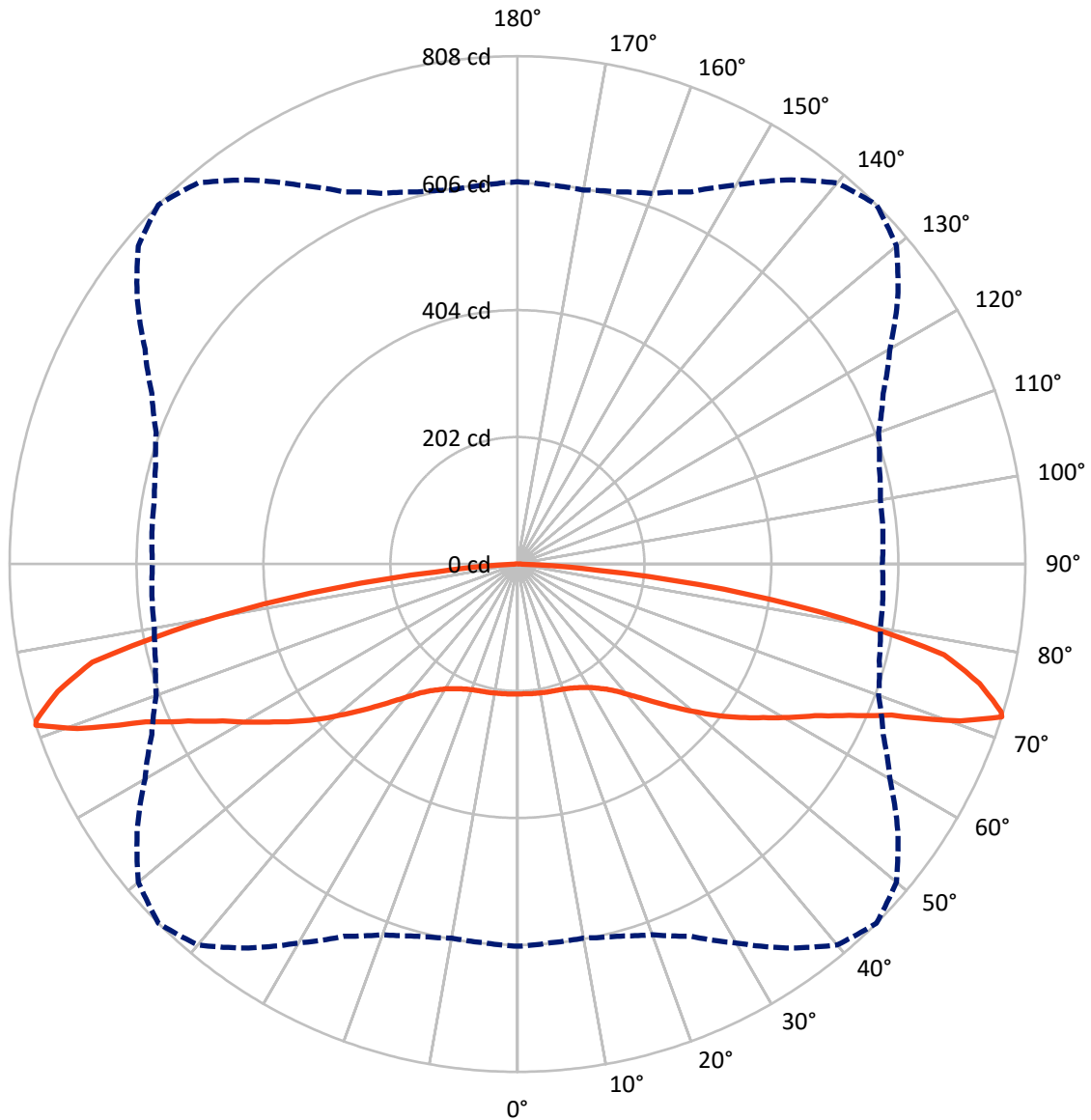
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.1 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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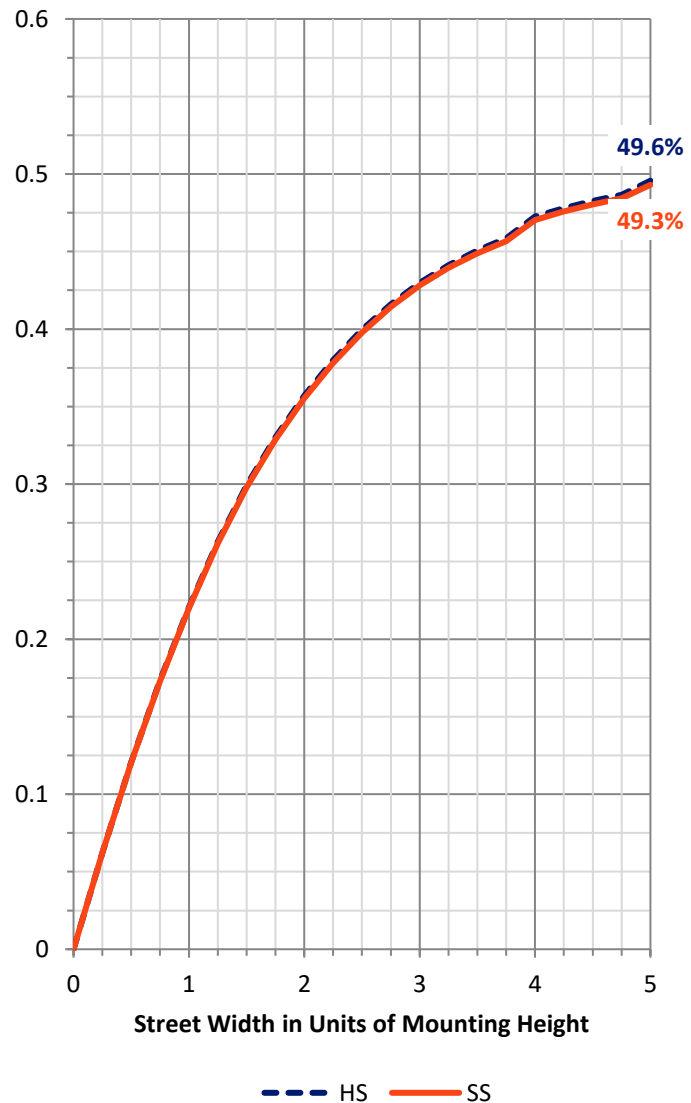
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.0	0.0	1124.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1124.0	0.0	1124.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2248.1	0.0	2248.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.9
10°-20°	59.6	2.7
20°-30°	100.9	4.5
30°-40°	153.5	6.8
40°-50°	243.1	10.8
50°-60°	372.5	16.6
60°-70°	546.9	24.3
70°-80°	620.3	27.6
80°-90°	131.4	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°	2248.1	100.0
0°-180°	2248.1	100.0



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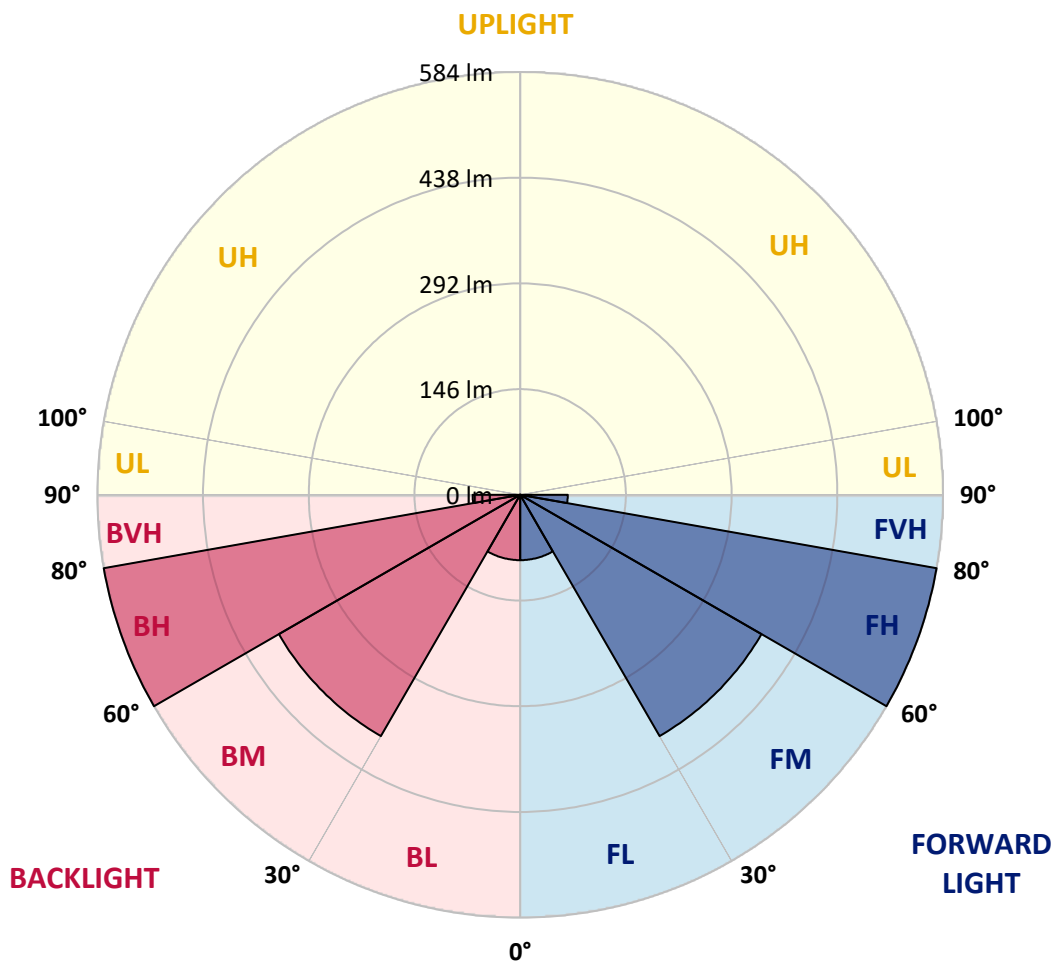
CATALOG NUMBER: ECM-F01-LED-E1-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.2	4.0			
FM	(30°-60°)	384.5	17.1			
FH	(60°-80°)	583.6	26.0			G0/660
FVH	(80°-90°)	65.7	2.9			G1/100
BL	(0°-30°)	90.2	4.0	B0/110		
BM	(30°-60°)	384.5	17.1	B1/1000		
BH	(60°-80°)	583.6	26.0	B2/1000		G0/660
BVH	(80°-90°)	65.7	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°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	207.3	207.6	207.3	207.1	207.1	206.8	206.8	206.8	207.1	206.6	206.6
5°	207.9	208.1	207.9	207.3	207.3	207.3	207.1	207.1	207.3	207.1	207.1
7.5°	208.6	208.9	208.6	208.1	208.1	207.9	207.6	207.6	208.1	207.6	207.6
10°	209.4	209.9	209.4	208.9	208.9	208.6	208.4	208.4	208.6	208.1	208.1
12.5°	210.6	210.6	210.4	210.1	210.1	209.9	209.6	209.4	209.1	208.9	208.6
15°	211.6	211.9	211.4	211.1	210.9	210.6	210.4	210.4	209.9	209.6	209.6
17.5°	212.9	213.1	212.6	212.1	212.1	211.6	211.4	211.4	210.9	210.6	210.4
20°	214.1	214.4	213.9	213.6	213.4	213.1	212.6	212.9	212.6	212.1	212.1
22.5°	215.6	215.6	215.4	215.1	215.1	214.9	214.6	215.1	214.6	214.6	214.4
25°	217.2	217.4	217.2	217.2	217.4	217.4	217.7	218.2	218.2	217.9	217.7
27.5°	220.4	220.4	220.4	220.4	221.2	221.2	221.4	222.2	222.4	222.4	222.4
30°	224.7	224.9	224.7	224.7	225.4	225.7	226.4	227.2	227.7	227.7	228.0
32.5°	231.0	230.7	231.0	231.5	232.0	232.5	233.2	234.5	235.2	235.5	235.5
35°	239.0	239.3	239.0	239.3	240.3	241.0	241.8	243.3	243.8	244.3	244.5
37.5°	250.8	251.6	251.1	251.1	252.3	252.8	253.8	255.1	256.1	256.6	256.4
40°	267.9	267.7	267.2	267.4	267.7	268.2	269.2	271.7	272.9	272.9	272.9
42.5°	287.5	287.8	287.0	286.8	287.0	287.5	289.0	291.0	293.1	292.5	292.8
45°	309.9	308.1	308.6	308.1	308.4	310.1	312.7	313.7	315.7	315.7	316.2
47.5°	331.8	331.0	330.8	330.5	331.3	333.0	336.0	339.3	341.1	342.1	342.8
50°	356.4	355.1	354.9	355.1	355.4	355.9	361.7	364.9	369.2	370.0	369.7
52.5°	380.3	379.3	378.8	378.8	379.8	381.5	387.6	392.8	397.6	400.6	399.4
55°	406.2	406.2	404.6	404.1	405.6	407.4	415.7	421.7	428.5	430.8	427.3
57.5°	432.8	432.5	430.3	429.5	430.8	435.3	442.3	451.6	458.9	460.9	458.9
60°	458.9	458.9	457.7	457.2	458.4	464.0	472.5	482.8	491.6	495.4	492.1
62.5°	488.8	488.8	485.6	487.1	488.8	493.1	503.9	517.2	529.1	531.1	528.0
65°	522.8	524.3	521.8	521.3	523.5	531.6	543.9	560.7	574.5	579.8	575.3
67.5°	574.5	572.3	569.3	568.0	571.5	579.1	594.1	616.3	636.6	641.6	636.4
70°	628.3	626.1	625.1	629.1	636.6	652.5	675.6	706.5	734.9	747.0	735.9
72°	607.7	604.7	603.9	612.5	627.1	653.0	695.7	745.4	790.7	807.5	786.7
72.5°	597.2	594.6	594.4	602.4	618.3	644.4	686.4	737.7	786.2	804.5	782.1
75°	554.4	551.9	554.4	563.5	579.3	607.5	650.2	698.2	741.9	758.8	736.9
77.5°	495.4	490.8	493.1	505.7	523.3	553.9	599.2	656.0	698.2	693.7	661.3
80°	395.3	385.3	396.1	399.9	420.0	440.6	484.3	509.7	524.3	525.0	501.9
82.5°	172.7	176.7	190.3	201.6	215.9	239.8	257.4	284.8	316.7	331.5	313.7
85°	11.3	14.1	22.4	26.6	36.9	45.0	64.6	94.0	113.4	129.7	109.3
87.5°	2.0	2.8	5.0	6.0	6.5	7.3	7.3	10.1	10.6	8.5	9.6
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°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	206.6	206.6	206.8	206.6	206.6	206.6	206.3	206.3
5°	206.8	206.8	207.1	207.1	206.8	206.8	206.8	206.8
7.5°	207.6	207.3	207.6	207.6	207.3	207.3	207.1	207.3
10°	207.9	207.9	208.1	208.1	207.9	207.9	207.9	207.9
12.5°	208.6	208.6	208.6	208.9	208.6	208.6	208.9	208.6
15°	209.4	209.1	209.1	209.1	209.1	209.4	209.4	209.6
17.5°	210.1	210.1	209.9	210.1	210.1	210.4	210.4	210.4
20°	211.6	211.4	210.9	211.4	211.4	211.4	211.4	211.6
22.5°	213.9	213.4	212.9	212.9	212.6	212.9	212.6	212.6
25°	217.2	216.4	215.6	215.4	215.1	214.9	214.6	214.9
27.5°	221.9	220.9	219.9	219.4	219.2	218.7	218.4	218.4
30°	227.2	226.4	224.9	224.4	223.7	222.9	222.9	222.7
32.5°	235.2	234.2	232.5	231.7	230.5	229.7	229.5	229.5
35°	243.5	242.3	241.5	240.5	239.0	238.3	238.0	238.0
37.5°	256.1	254.6	253.6	252.3	252.1	251.1	251.1	251.1
40°	272.4	271.2	269.9	268.9	268.2	267.4	266.4	266.4
42.5°	292.5	290.5	289.8	288.5	287.5	286.8	286.3	286.3
45°	314.7	312.9	311.9	310.1	309.9	309.4	308.4	308.4
47.5°	339.5	337.0	335.0	334.5	333.3	332.0	331.5	331.8
50°	366.7	362.4	359.7	359.7	358.1	356.4	356.6	356.4
52.5°	394.6	389.8	386.3	383.8	382.0	381.8	382.0	381.8
55°	422.7	417.7	413.4	410.7	408.9	407.2	406.9	406.9
57.5°	451.9	445.6	438.8	436.3	434.6	433.5	433.5	433.8
60°	484.8	474.5	466.0	462.7	461.4	461.9	461.7	461.9
62.5°	518.2	506.4	496.4	492.6	490.8	490.6	492.6	493.4
65°	560.5	545.9	534.6	527.5	527.5	526.8	529.1	528.0
67.5°	615.5	594.9	581.1	569.8	570.0	570.8	574.0	573.8
70°	709.3	672.8	647.2	627.8	620.3	615.3	614.3	614.3
72°	738.2	683.9	641.6	611.2	595.7	586.1	583.3	580.3
72.5°	730.6	674.8	632.1	600.4	584.3	574.8	570.5	566.8
75°	683.1	620.8	574.3	541.1	523.3	511.7	509.4	507.7
77.5°	602.7	547.4	499.4	465.0	447.1	432.3	426.3	425.8
80°	464.7	414.9	378.0	351.1	335.0	324.0	324.5	320.9
82.5°	274.2	232.2	200.6	164.6	141.0	127.4	118.9	117.9
85°	80.7	54.8	34.9	25.1	18.1	13.6	10.1	9.0
87.5°	7.3	5.8	4.8	4.0	3.8	3.3	2.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)