

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: STREETWORKS

Report Number: P177317

Luminaire Tested: **VAL-E01-LED-E-U-WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177317
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E01-LED-E-U-WQ-7030
Description: VALET TUNNEL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.2 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
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: 28.75 FT

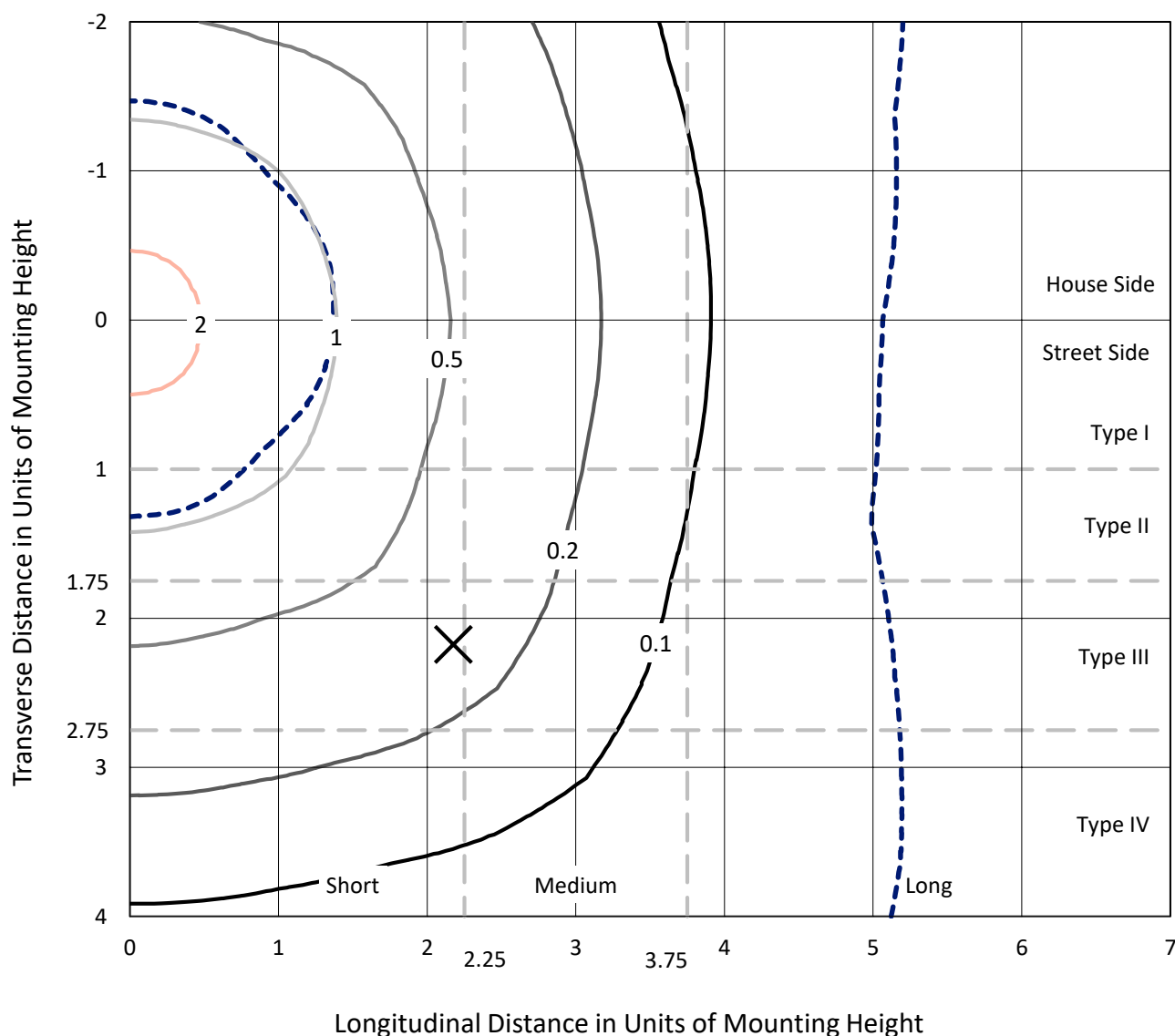


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

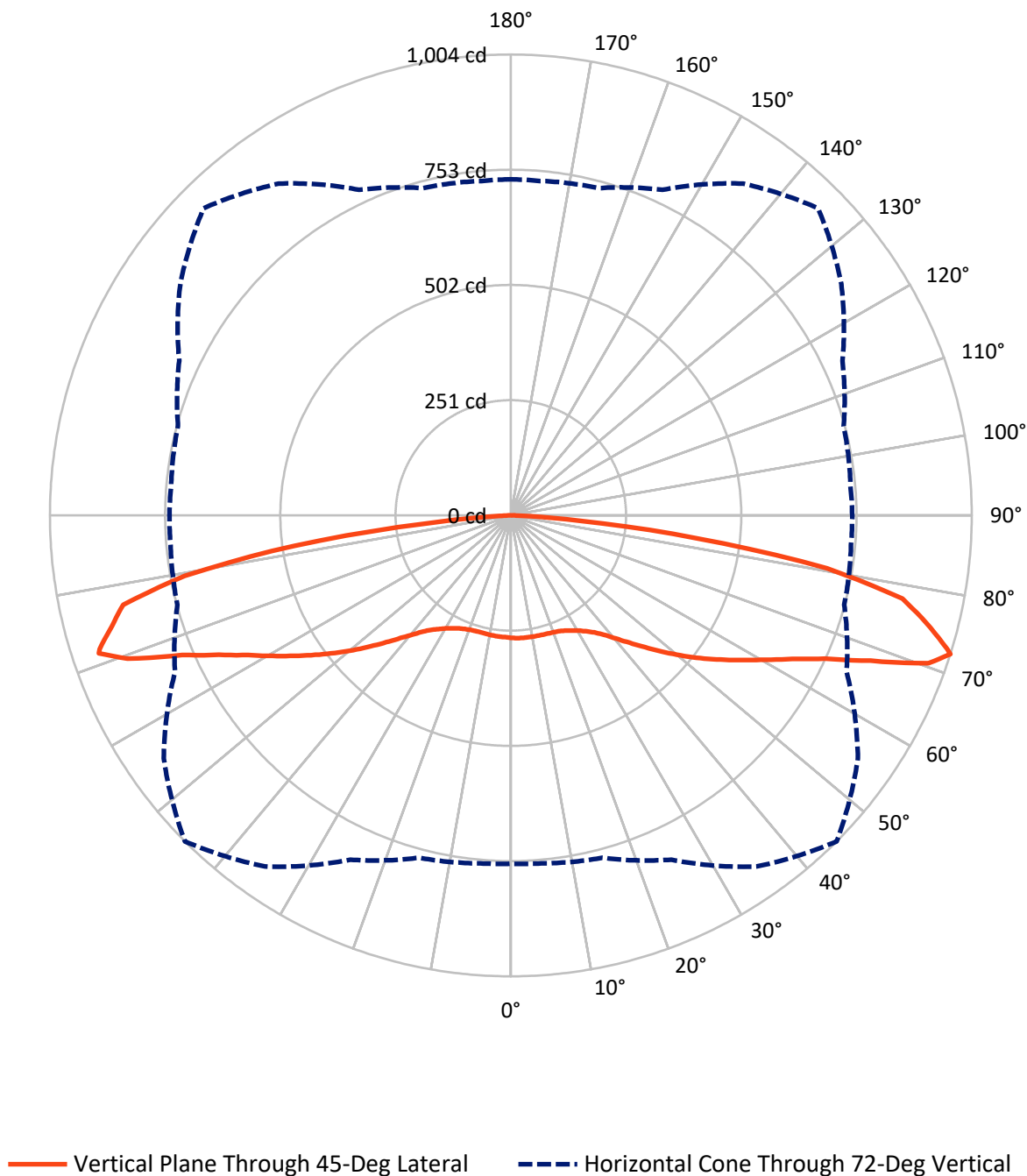


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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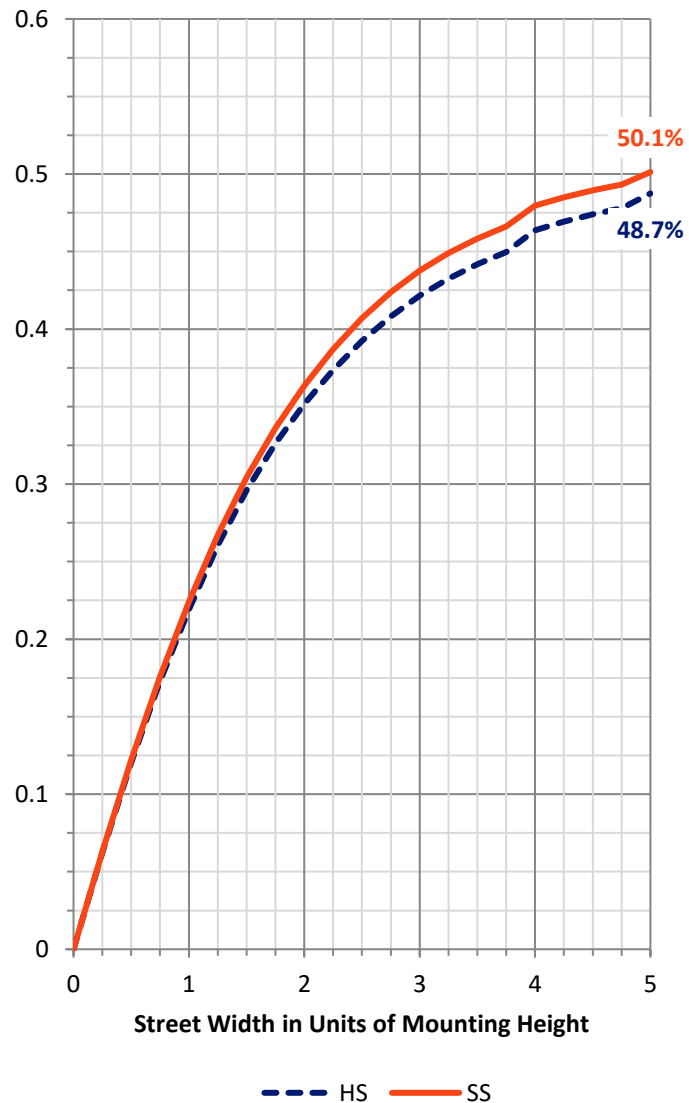
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.7	0.0	1392.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	1431.4	0.0	1431.4
	% Fixture	50.7	0.0	50.7
Total	Lumens	2824.2	0.0	2824.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.9
10°-20°	75.6	2.7
20°-30°	127.0	4.5
30°-40°	193.3	6.8
40°-50°	305.6	10.8
50°-60°	466.8	16.5
60°-70°	683.8	24.2
70°-80°	776.9	27.5
80°-90°	169.7	6.0
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°	2824.2	100.0
0°-180°	2824.2	100.0

Coefficient of Utilization



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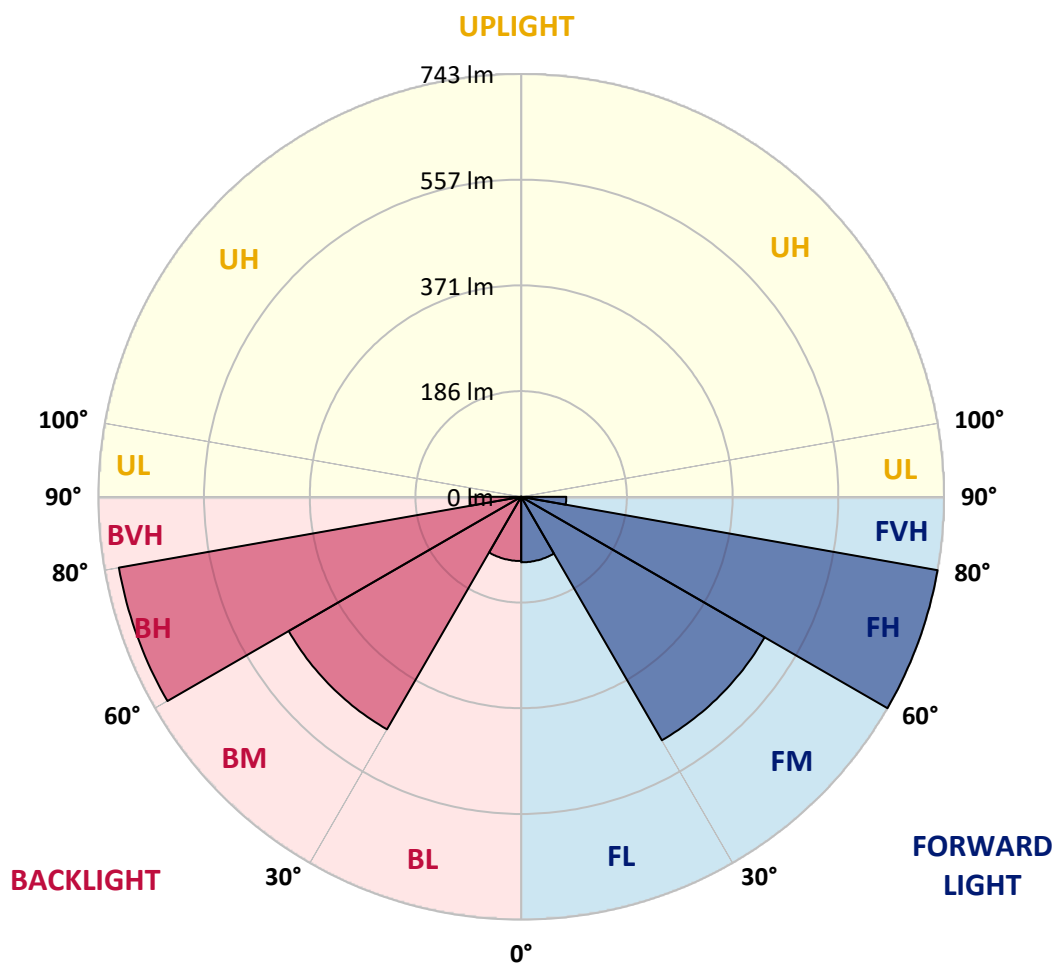
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.2	4.1			
FM	(30°-60°)	493.9	17.5			
FH	(60°-80°)	743.0	26.3			G1/1800
FVH	(80°-90°)	79.4	2.8			G1/100
BL	(0°-30°)	112.9	4.0	B1/500		
BM	(30°-60°)	471.7	16.7	B1/1000		
BH	(60°-80°)	717.7	25.4	B2/1000		G1/1800
BVH	(80°-90°)	90.3	3.2			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
2.5°	268.9	268.9	268.2	267.8	267.8	267.6	267.4	267.4	267.2	267.4	266.9
5°	269.3	269.3	268.5	268.2	268.0	267.8	267.8	267.4	267.2	267.4	266.9
7.5°	269.3	269.4	269.1	268.7	268.2	268.0	267.8	267.2	267.2	266.9	266.7
10°	270.0	270.5	269.8	269.3	268.5	268.2	267.6	267.2	267.1	266.7	266.7
12.5°	270.5	271.1	270.4	269.8	269.1	268.5	267.8	267.2	266.9	266.3	266.5
15°	271.3	271.8	271.1	270.4	269.6	268.9	268.2	267.4	266.9	266.5	266.5
17.5°	271.6	272.2	271.4	270.7	270.2	269.8	268.9	267.8	267.1	266.7	266.7
20°	272.2	272.7	272.2	271.8	271.3	271.1	270.2	268.9	268.0	267.4	267.2
22.5°	273.5	273.8	273.6	273.6	273.6	273.5	272.7	270.7	269.6	268.7	268.5
25°	276.6	276.4	276.7	277.1	277.3	277.7	276.6	274.4	272.9	271.4	271.3
27.5°	281.7	281.9	282.0	282.8	283.5	283.7	282.6	280.2	278.0	276.0	275.8
30°	287.5	287.5	288.3	289.7	290.4	291.0	289.9	287.0	284.2	282.2	281.9
32.5°	295.9	296.7	297.0	298.7	300.1	300.7	299.0	295.9	292.8	290.3	289.7
35°	308.0	309.1	309.4	310.9	312.5	312.7	311.3	307.8	304.5	301.0	301.2
37.5°	325.0	325.2	326.1	326.4	329.5	329.5	327.2	324.1	320.8	317.7	316.7
40°	347.6	347.8	348.2	347.6	351.3	352.4	349.3	344.5	341.4	337.4	336.8
42.5°	372.3	374.1	373.9	373.0	376.7	379.0	375.2	369.7	366.4	362.2	361.5
45°	402.8	402.4	400.8	402.8	407.0	409.5	404.8	397.9	394.4	389.1	388.9
47.5°	432.4	432.0	429.5	430.9	438.8	443.0	436.0	428.2	423.6	420.5	418.1
50°	460.5	463.1	459.8	462.9	473.1	478.8	472.4	460.0	454.5	449.7	448.5
52.5°	493.6	495.0	492.1	497.0	508.4	516.6	507.8	491.7	486.3	481.0	479.3
55°	527.4	526.6	525.2	530.7	544.5	554.2	544.7	525.4	517.3	513.3	513.3
57.5°	560.6	561.0	557.5	564.1	581.6	594.4	582.5	558.8	548.9	544.4	545.8
60°	596.2	596.2	590.9	597.0	621.4	637.7	619.8	592.6	581.8	579.1	579.2
62.5°	636.2	634.8	628.9	636.4	666.2	687.8	665.3	631.3	617.2	617.2	618.5
65°	682.5	680.1	678.1	686.7	725.2	751.5	721.9	679.0	666.6	665.1	667.5
67.5°	748.9	751.5	746.4	757.7	810.3	844.7	799.7	744.4	731.2	729.9	735.8
70°	808.9	806.3	812.9	844.8	916.5	964.3	901.8	816.7	779.1	771.4	773.8
72°	758.4	760.5	771.6	827.1	933.3	1003.6	922.5	806.7	751.5	743.5	743.3
72.5°	746.8	748.2	757.7	811.1	921.2	993.2	912.1	793.9	741.8	734.9	734.5
75°	685.4	688.3	703.3	755.2	867.0	934.7	858.5	748.0	690.9	677.7	680.4
77.5°	583.8	589.8	605.0	664.7	795.9	871.7	790.2	663.1	599.0	589.3	586.2
80°	428.4	420.3	447.7	500.7	594.0	698.3	602.6	499.6	433.1	415.4	419.8
82.5°	145.8	149.2	192.5	257.0	326.1	407.7	346.2	250.3	184.3	162.0	152.2
85°	17.7	19.2	30.0	54.6	102.7	148.3	104.9	55.5	34.5	21.2	18.6
87.5°	8.6	9.1	12.8	13.7	17.0	14.4	17.2	11.0	10.4	6.4	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
2.5°	266.7	266.3	266.2	265.8	265.4	265.4	265.4	265.4	265.4	265.6
5°	266.7	266.3	266.2	265.6	265.2	265.2	265.1	265.2	265.1	265.2
7.5°	266.7	266.2	265.6	265.1	264.7	264.9	264.5	264.3	264.5	264.5
10°	266.5	265.6	264.9	264.3	264.1	264.0	264.0	263.8	264.1	264.0
12.5°	266.3	265.2	264.3	263.6	263.4	263.4	263.4	263.4	264.0	263.8
15°	266.2	265.1	264.1	263.2	263.0	263.4	263.4	263.8	264.1	264.1
17.5°	266.3	265.1	264.0	263.2	263.2	263.6	263.8	264.3	264.9	264.5
20°	267.1	265.6	264.7	264.0	264.3	264.7	264.7	265.1	265.6	265.2
22.5°	268.2	267.1	266.3	266.2	266.7	266.9	266.7	266.5	266.7	266.3
25°	270.7	269.6	269.1	269.8	270.4	270.2	269.4	268.7	268.3	268.2
27.5°	275.5	274.6	274.4	275.3	275.8	274.9	273.6	272.5	272.2	271.6
30°	281.3	280.8	281.3	282.2	282.4	280.9	279.1	277.5	276.9	276.9
32.5°	289.0	288.4	289.7	291.2	291.5	289.5	286.6	284.4	283.0	282.8
35°	300.1	299.8	300.1	302.0	301.8	299.8	296.5	293.9	292.5	292.5
37.5°	315.7	315.3	314.4	316.2	316.0	313.3	309.8	307.6	306.0	306.2
40°	335.9	335.4	334.3	334.7	336.1	332.5	328.1	325.2	325.0	325.0
42.5°	360.2	357.7	358.0	360.2	359.1	354.7	350.7	348.2	348.2	348.0
45°	386.7	385.8	385.4	386.2	387.1	383.6	376.8	373.9	373.7	373.7
47.5°	417.4	412.8	413.7	415.6	417.8	413.4	404.8	401.3	400.8	401.0
50°	447.4	442.6	443.5	447.4	451.6	444.6	434.0	429.8	429.1	429.5
52.5°	478.4	474.4	474.4	480.8	486.3	477.7	464.3	459.2	459.2	459.0
55°	511.3	505.8	508.0	516.2	522.8	512.4	495.9	491.9	488.8	490.1
57.5°	544.0	538.5	540.3	552.9	561.2	548.7	528.1	519.7	517.9	517.5
60°	577.4	571.2	573.4	593.1	602.8	586.4	556.0	545.8	544.2	544.0
62.5°	614.5	610.1	613.4	636.2	647.4	624.0	585.8	574.1	574.7	573.4
65°	660.7	657.2	662.9	690.9	704.6	670.2	624.4	610.8	612.5	612.3
67.5°	726.8	722.6	726.1	765.2	777.4	733.4	677.9	664.6	667.1	671.3
70°	768.3	771.4	802.7	857.5	891.1	846.1	772.7	747.7	748.9	749.5
72°	742.4	750.2	796.6	878.5	945.9	881.9	782.0	737.6	731.0	731.8
72.5°	735.4	741.5	788.0	869.7	941.3	874.3	772.0	729.9	719.4	719.7
75°	683.2	694.7	739.4	824.4	901.1	835.7	733.2	688.5	680.3	680.3
77.5°	593.1	609.2	655.1	774.3	866.4	795.2	684.1	628.8	620.3	617.2
80°	436.4	460.0	505.1	622.9	722.3	657.2	563.2	506.2	493.0	488.3
82.5°	171.9	192.2	268.0	375.2	476.0	405.2	306.3	255.6	214.8	210.4
85°	21.4	34.5	67.6	123.7	189.1	134.4	80.2	42.0	22.7	19.0
87.5°	6.2	11.7	12.8	20.8	24.7	22.7	14.2	12.8	7.1	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)