

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: P177319

Luminaire Tested: **VAL-E01-LED-E-U-WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177319
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-7050
Description: VALET TUNNEL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.8 lumens
Efficiency: N/A
Efficacy: 128.5 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 - G2

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

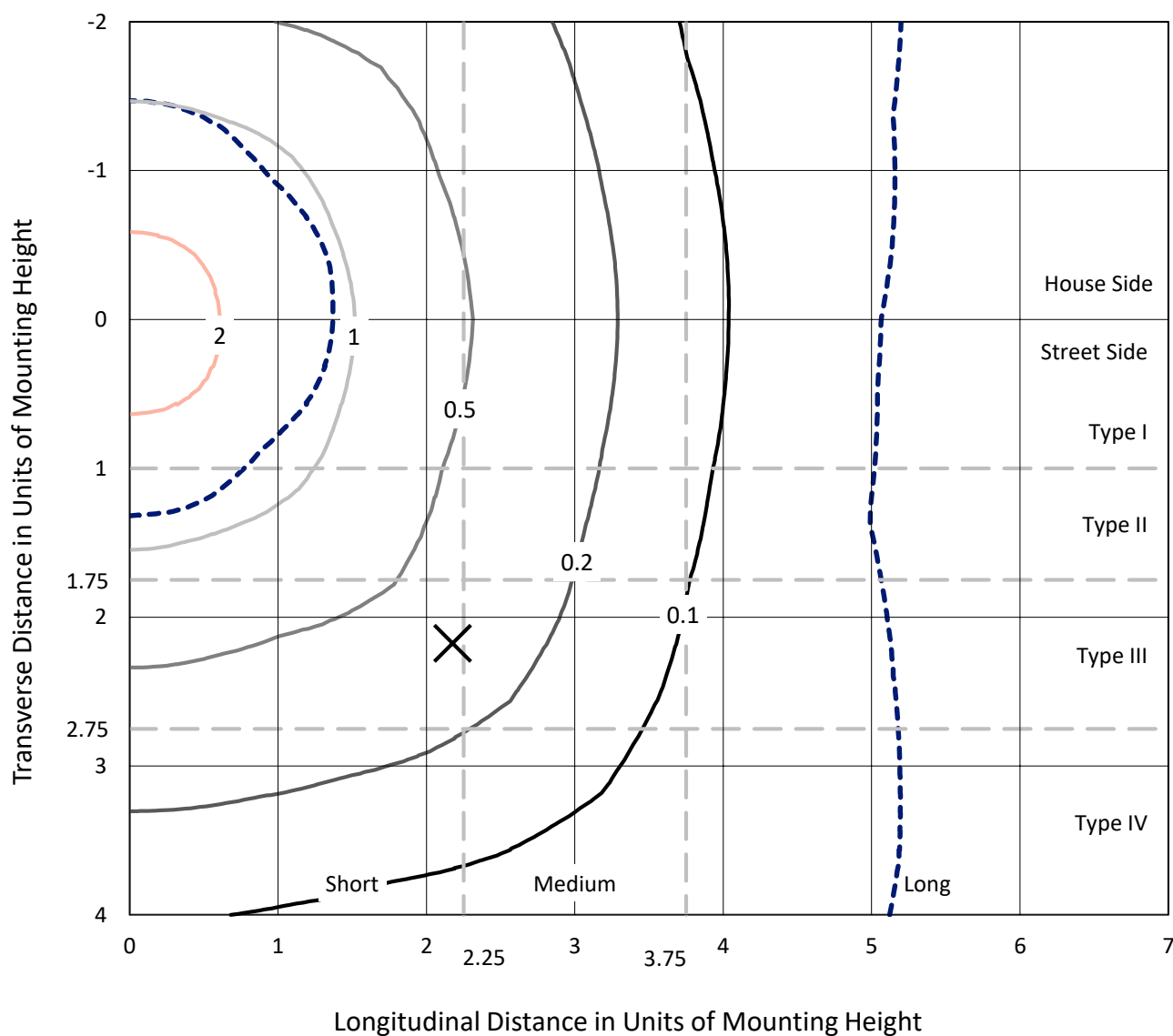


REPORT NUMBER: P177319

CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

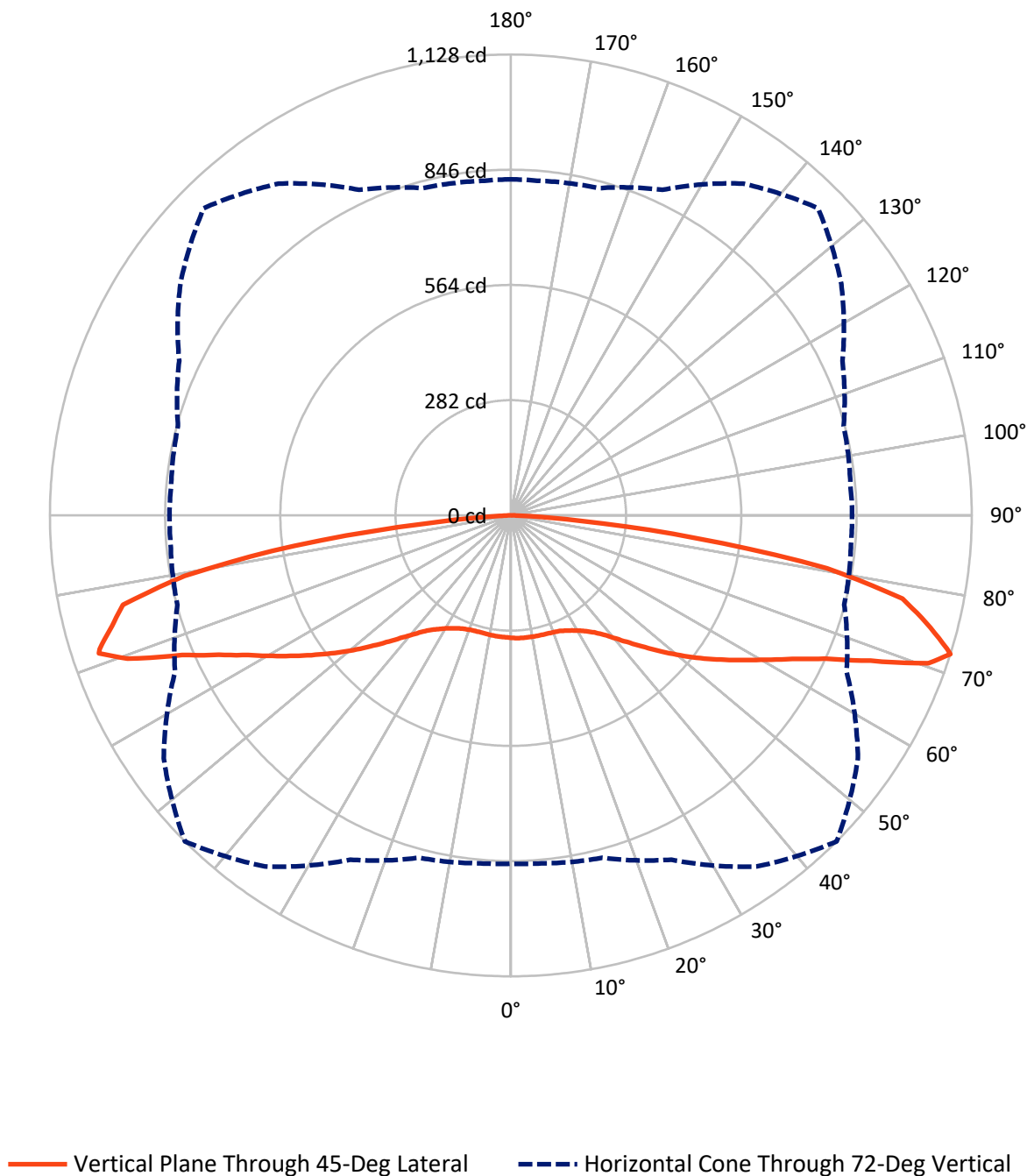


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P177319

CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P177319

CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

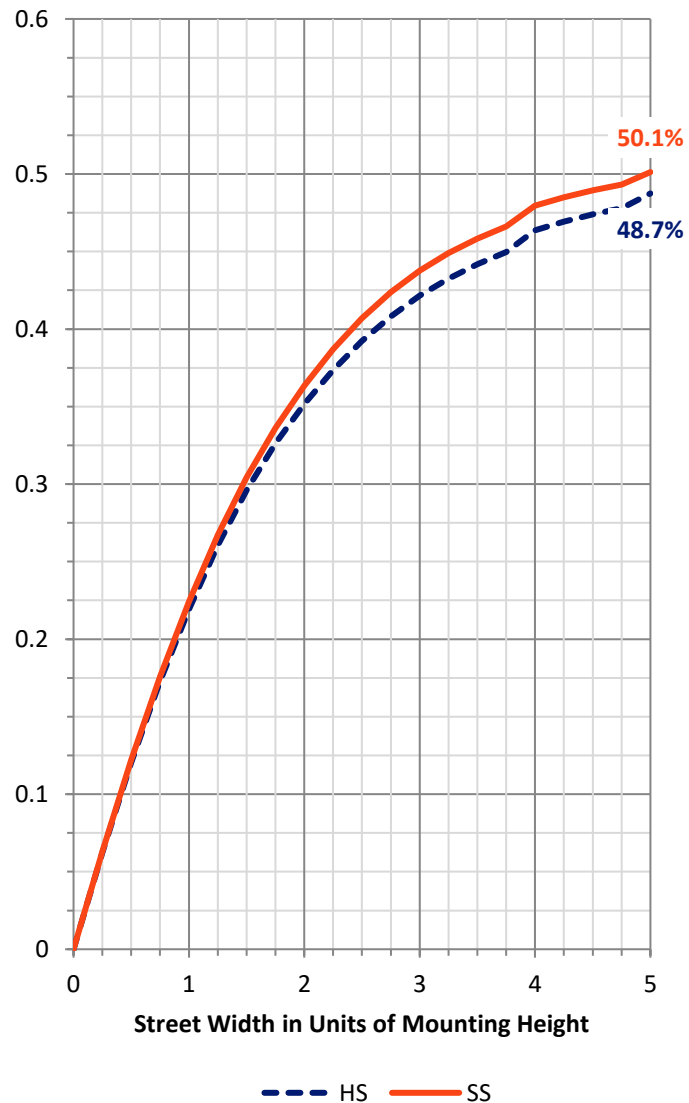
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.7	0.0	1564.7
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	1608.2	0.0	1608.2
	% Fixture	50.7	0.0	50.7
Total	Lumens	3172.8	0.0	3172.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	0.9
10°-20°	84.9	2.7
20°-30°	142.7	4.5
30°-40°	217.2	6.8
40°-50°	343.3	10.8
50°-60°	524.4	16.5
60°-70°	768.2	24.2
70°-80°	872.8	27.5
80°-90°	190.6	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°	3172.8	100.0
0°-180°	3172.8	100.0

Coefficient of Utilization



REPORT NUMBER: P177319

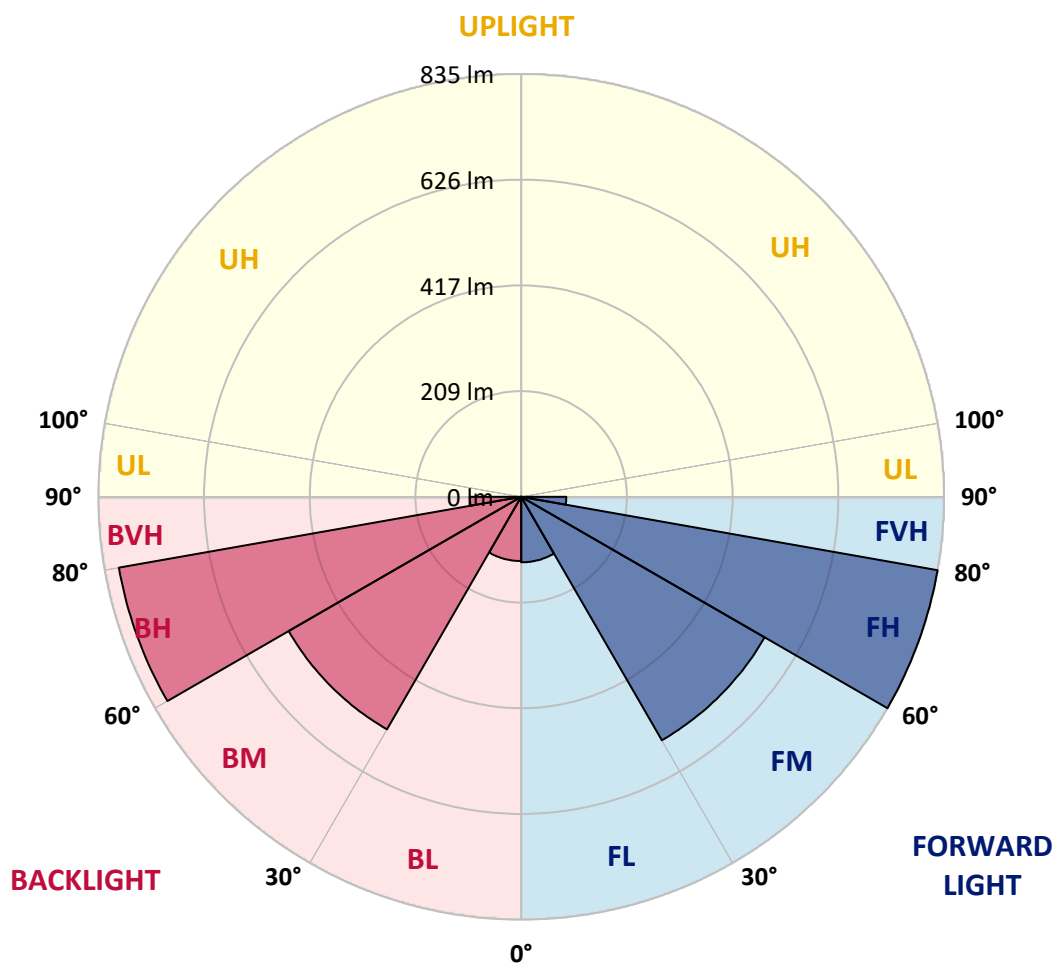
CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.4	4.1			
FM	(30°-60°)	554.9	17.5			
FH	(60°-80°)	834.7	26.3			G1/1800
FVH	(80°-90°)	89.2	2.8			G1/100
BL	(0°-30°)	126.8	4.0	B1/500		
BM	(30°-60°)	530.0	16.7	B1/1000		
BH	(60°-80°)	806.4	25.4	B2/1000		G1/1800
BVH	(80°-90°)	101.5	3.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short





REPORT NUMBER: P177319

CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	302.1	302.1	301.3	300.9	300.9	300.6	300.4	300.4	300.2	300.4	299.8
5°	302.5	302.5	301.7	301.3	301.1	300.9	300.9	300.4	300.2	300.4	299.8
7.5°	302.5	302.7	302.3	301.9	301.3	301.1	300.9	300.2	300.2	299.8	299.6
10°	303.3	303.9	303.1	302.5	301.7	301.3	300.6	300.2	300.0	299.6	299.6
12.5°	303.9	304.5	303.7	303.1	302.3	301.7	300.9	300.2	299.8	299.2	299.4
15°	304.8	305.4	304.5	303.7	302.9	302.1	301.3	300.4	299.8	299.4	299.4
17.5°	305.2	305.8	305.0	304.1	303.5	303.1	302.1	300.9	300.0	299.6	299.6
20°	305.8	306.4	305.8	305.4	304.8	304.5	303.5	302.1	301.1	300.4	300.2
22.5°	307.2	307.6	307.4	307.4	307.4	307.2	306.4	304.1	302.9	301.9	301.7
25°	310.7	310.5	310.9	311.3	311.5	311.9	310.7	308.2	306.6	305.0	304.8
27.5°	316.5	316.7	316.9	317.7	318.5	318.7	317.5	314.8	312.3	310.1	309.9
30°	323.0	323.0	323.8	325.5	326.3	326.9	325.7	322.4	319.3	317.1	316.7
32.5°	332.5	333.3	333.7	335.5	337.2	337.8	335.9	332.5	329.0	326.1	325.5
35°	346.0	347.2	347.6	349.3	351.1	351.3	349.7	345.8	342.1	338.2	338.4
37.5°	365.1	365.3	366.3	366.7	370.2	370.2	367.6	364.1	360.4	356.9	355.9
40°	390.5	390.7	391.2	390.5	394.6	395.9	392.4	387.0	383.6	379.0	378.4
42.5°	418.2	420.3	420.1	419.1	423.2	425.8	421.5	415.4	411.7	407.0	406.1
45°	452.5	452.1	450.3	452.5	457.2	460.1	454.8	447.0	443.1	437.1	436.9
47.5°	485.8	485.3	482.5	484.1	492.9	497.7	489.9	481.0	475.9	472.4	469.8
50°	517.4	520.2	516.5	520.0	531.5	537.9	530.7	516.7	510.6	505.3	503.8
52.5°	554.5	556.1	552.9	558.4	571.1	580.4	570.5	552.5	546.3	540.3	538.5
55°	592.5	591.7	590.0	596.2	611.8	622.6	612.0	590.2	581.2	576.7	576.7
57.5°	629.8	630.2	626.3	633.7	653.4	667.8	654.5	627.8	616.7	611.6	613.2
60°	669.8	669.8	663.9	670.7	698.2	716.4	696.3	665.7	653.6	650.6	650.8
62.5°	714.8	713.1	706.6	715.0	748.4	772.7	747.4	709.2	693.4	693.4	694.9
65°	766.7	764.0	761.8	771.4	814.7	844.3	811.0	762.8	748.9	747.2	749.9
67.5°	841.4	844.3	838.5	851.3	910.4	948.9	898.5	836.3	821.5	820.1	826.6
70°	908.7	905.8	913.2	949.1	1029.6	1083.4	1013.2	917.5	875.3	866.6	869.3
72°	852.1	854.3	866.9	929.2	1048.5	1127.5	1036.4	906.3	844.3	835.2	835.0
72.5°	838.9	840.6	851.3	911.2	1034.9	1115.8	1024.7	891.9	833.4	825.6	825.2
75°	770.0	773.3	790.1	848.4	974.0	1050.1	964.5	840.4	776.1	761.4	764.4
77.5°	655.9	662.7	679.7	746.8	894.1	979.3	887.8	745.0	672.9	662.0	658.6
80°	481.2	472.2	503.0	562.5	667.4	784.6	677.0	561.3	486.6	466.7	471.6
82.5°	163.8	167.7	216.3	288.7	366.3	458.1	388.9	281.2	207.1	182.0	170.9
85°	19.9	21.5	33.7	61.4	115.3	166.6	117.8	62.4	38.8	23.8	20.9
87.5°	9.6	10.3	14.4	15.4	19.1	16.2	19.3	12.3	11.7	7.2	6.0
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: P177319

CATALOG NUMBER: VAL-E01-LED-E-U-WQ-7050

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	299.6	299.2	299.0	298.6	298.2	298.2	298.2	298.2	298.2	298.4
5°	299.6	299.2	299.0	298.4	298.0	298.0	297.8	298.0	297.8	298.0
7.5°	299.6	299.0	298.4	297.8	297.4	297.6	297.2	297.0	297.2	297.2
10°	299.4	298.4	297.6	297.0	296.7	296.5	296.5	296.3	296.7	296.5
12.5°	299.2	298.0	297.0	296.1	295.9	295.9	295.9	295.9	296.5	296.3
15°	299.0	297.8	296.7	295.7	295.5	295.9	295.9	296.3	296.7	296.7
17.5°	299.2	297.8	296.5	295.7	295.7	296.1	296.3	297.0	297.6	297.2
20°	300.0	298.4	297.4	296.5	297.0	297.4	297.4	297.8	298.4	298.0
22.5°	301.3	300.0	299.2	299.0	299.6	299.8	299.6	299.4	299.6	299.2
25°	304.1	302.9	302.3	303.1	303.7	303.5	302.7	301.9	301.5	301.3
27.5°	309.5	308.4	308.2	309.3	309.9	308.9	307.4	306.2	305.8	305.2
30°	316.0	315.4	316.0	317.1	317.3	315.6	313.6	311.7	311.1	311.1
32.5°	324.7	324.0	325.5	327.1	327.5	325.3	322.0	319.5	317.9	317.7
35°	337.2	336.8	337.2	339.2	339.0	336.8	333.1	330.2	328.6	328.6
37.5°	354.6	354.2	353.2	355.2	355.0	352.0	348.1	345.6	343.7	344.0
40°	377.4	376.8	375.6	376.0	377.6	373.5	368.6	365.3	365.1	365.1
42.5°	404.7	401.8	402.2	404.7	403.5	398.5	394.0	391.2	391.2	390.9
45°	434.5	433.4	433.0	433.8	434.9	431.0	423.4	420.1	419.9	419.9
47.5°	468.9	463.8	464.8	466.9	469.3	464.4	454.8	450.9	450.3	450.5
50°	502.6	497.3	498.3	502.6	507.3	499.5	487.6	482.9	482.1	482.5
52.5°	537.5	533.0	533.0	540.1	546.3	536.7	521.7	515.9	515.9	515.7
55°	574.4	568.3	570.7	580.0	587.3	575.6	557.2	552.7	549.2	550.6
57.5°	611.1	605.0	607.0	621.2	630.4	616.5	593.3	583.9	581.8	581.4
60°	648.7	641.7	644.2	666.4	677.2	658.8	624.7	613.2	611.4	611.1
62.5°	690.4	685.4	689.1	714.8	727.3	701.0	658.1	645.0	645.6	644.2
65°	742.3	738.4	744.7	776.1	791.5	753.0	701.4	686.3	688.1	687.9
67.5°	816.6	811.9	815.8	859.7	873.4	824.0	761.6	746.6	749.5	754.2
70°	863.2	866.6	901.7	963.3	1001.1	950.6	868.1	840.0	841.4	842.0
72°	834.0	842.8	895.0	986.9	1062.6	990.8	878.6	828.7	821.3	822.1
72.5°	826.2	833.0	885.3	977.1	1057.5	982.2	867.3	820.1	808.2	808.6
75°	767.5	780.5	830.7	926.2	1012.4	938.9	823.8	773.5	764.2	764.2
77.5°	666.4	684.4	735.9	869.9	973.4	893.3	768.6	706.4	696.9	693.4
80°	490.3	516.7	567.4	699.8	811.4	738.4	632.7	568.7	553.9	548.6
82.5°	193.1	215.9	301.1	421.5	534.8	455.2	344.2	287.1	241.3	236.4
85°	24.0	38.8	75.9	138.9	212.4	151.0	90.1	47.2	25.4	21.3
87.5°	7.0	13.1	14.4	23.4	27.7	25.4	16.0	14.4	8.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)