

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: LUMARK

Report Number: P143923

Luminaire Tested: **LDRL-5WQ-F01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P143923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5WQ-F01-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.9 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

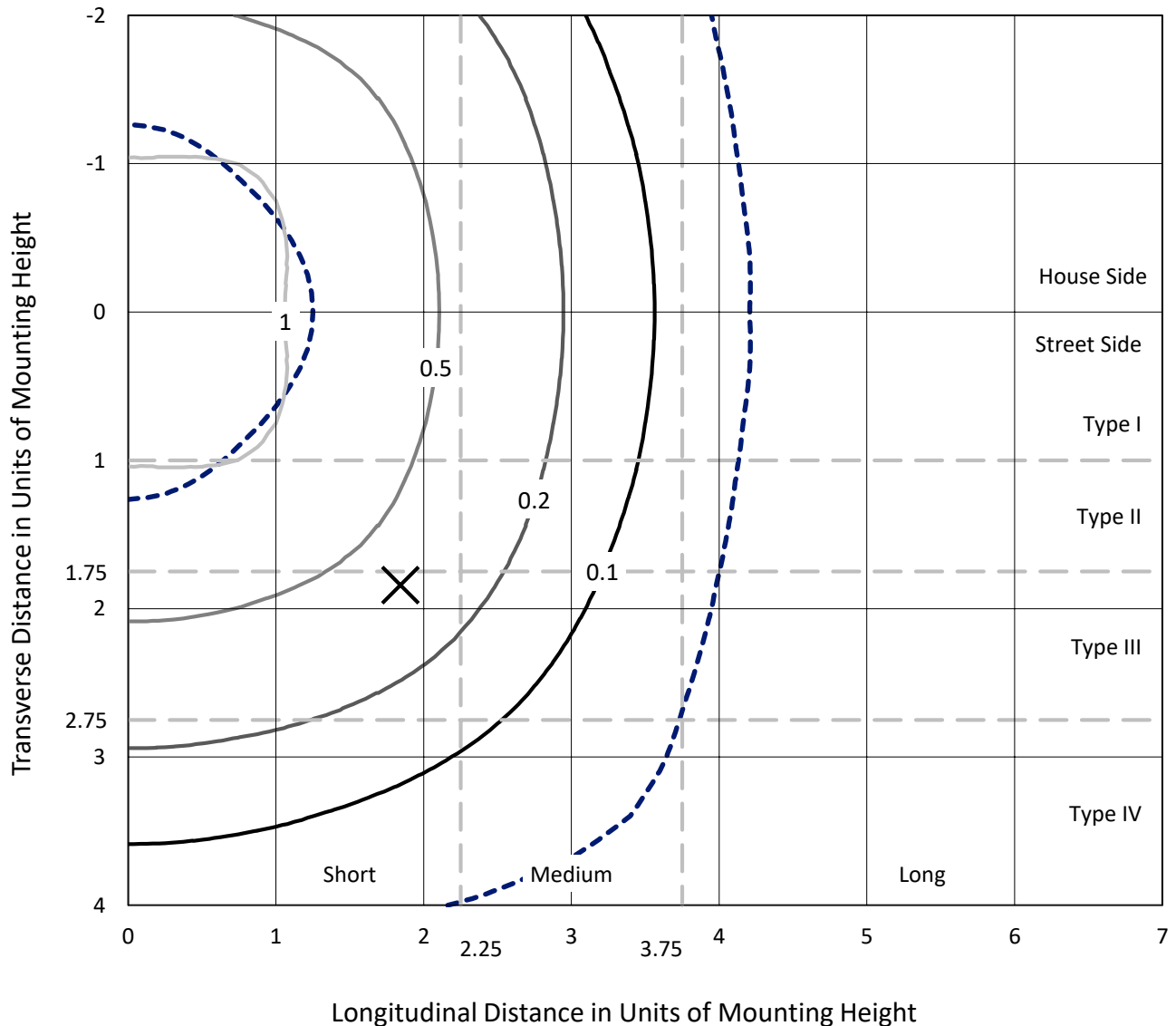
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

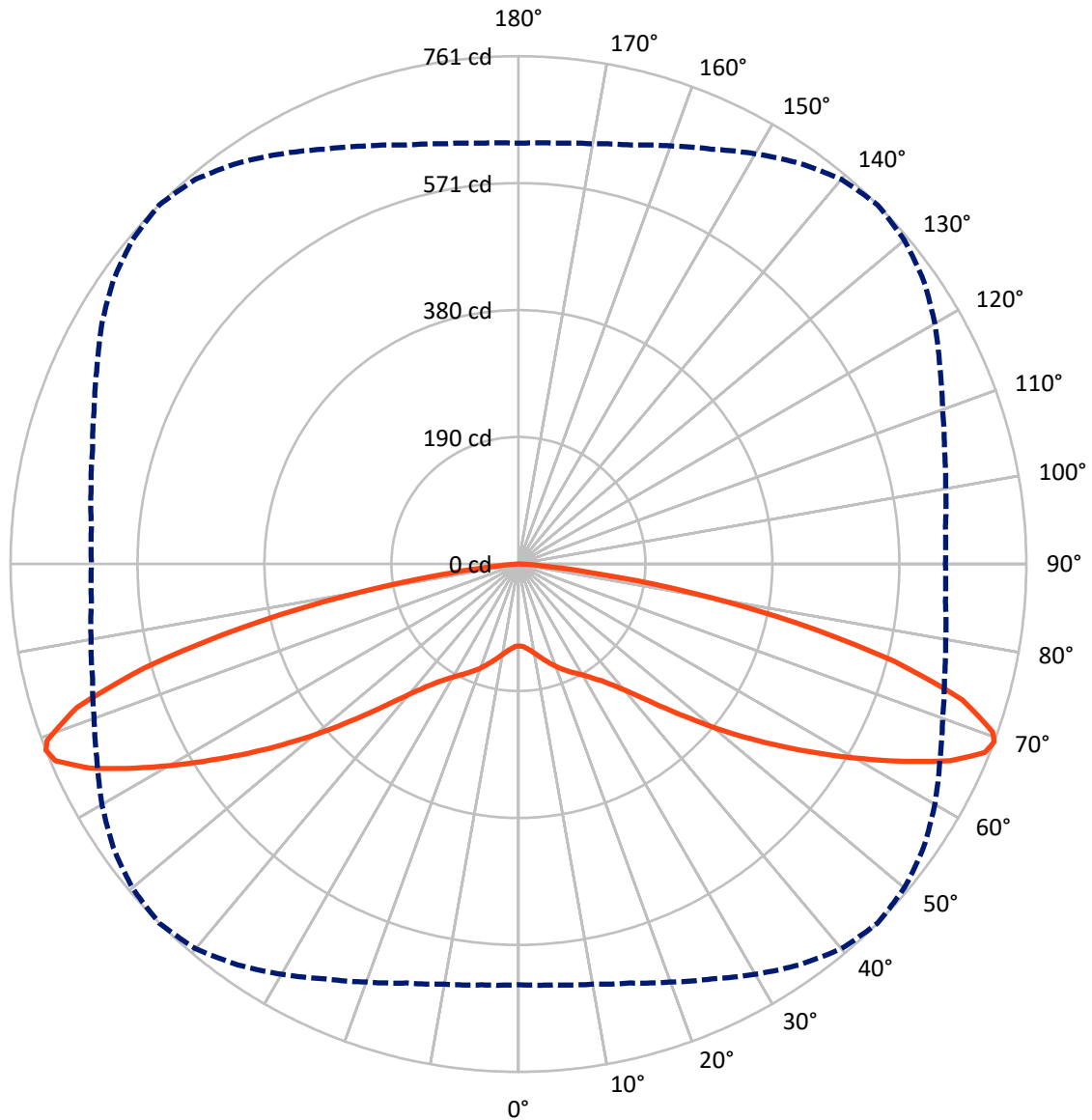


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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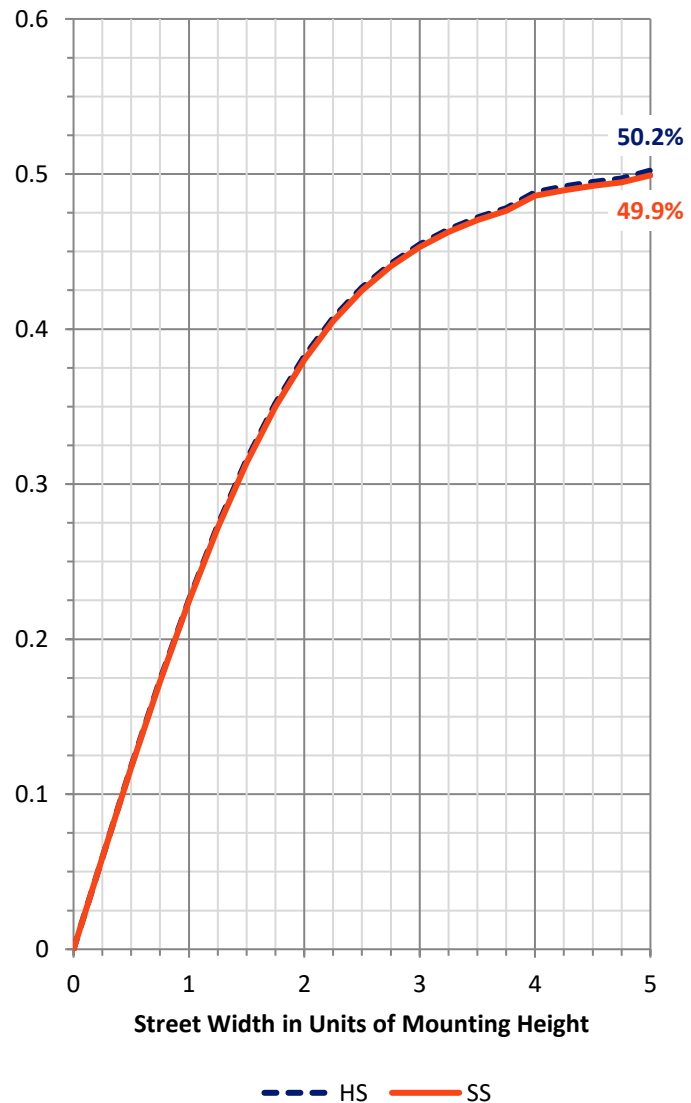
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.9	0.0	1067.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1067.9	0.0	1067.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	2135.9	0.0	2135.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.6
10°-20°	42.7	2.0
20°-30°	82.3	3.9
30°-40°	134.8	6.3
40°-50°	234.4	11.0
50°-60°	416.4	19.5
60°-70°	646.5	30.3
70°-80°	515.1	24.1
80°-90°	51.2	2.4
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°	2135.9	100.0
0°-180°	2135.9	100.0



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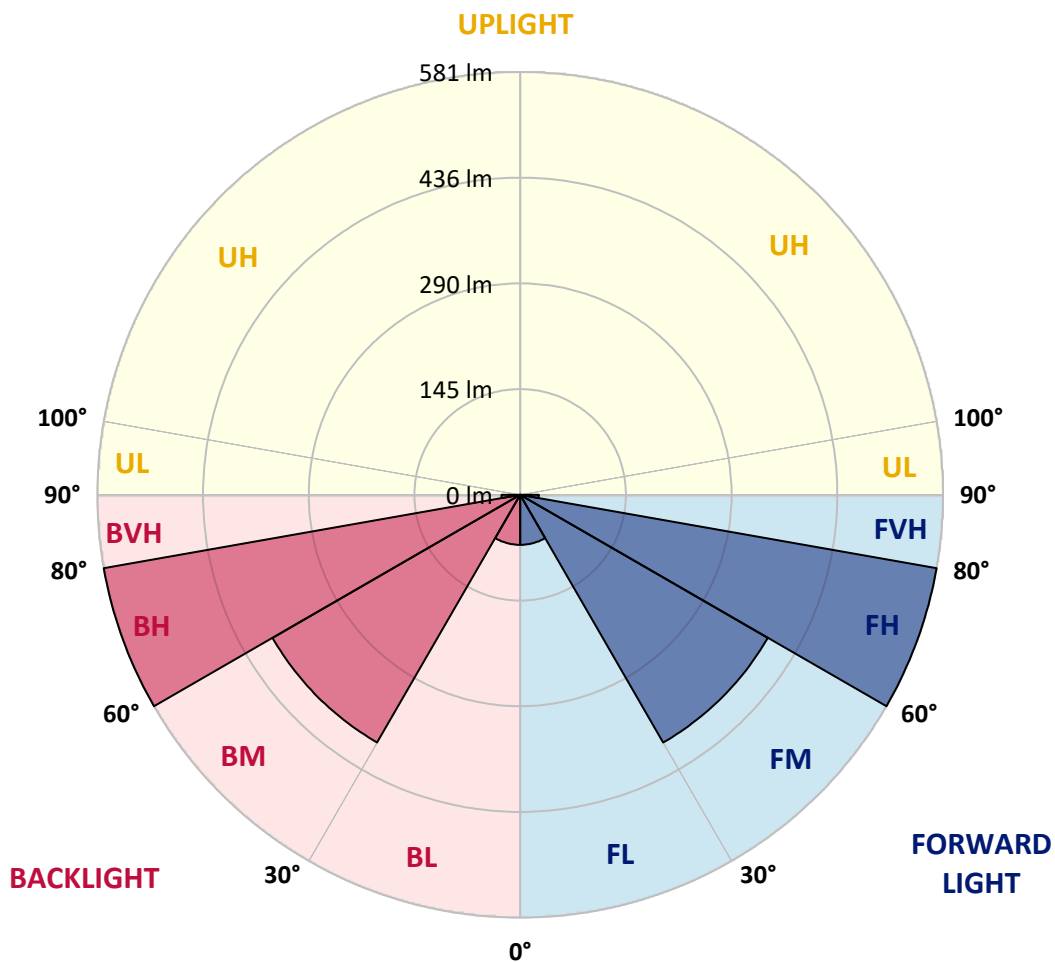
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	68.7	3.2			
FM (30°-60°)	392.8	18.4			
FH (60°-80°)	580.8	27.2			G0/660
FVH (80°-90°)	25.6	1.2			G1/100
BL (0°-30°)	68.7	3.2	B0/110		
BM (30°-60°)	392.8	18.4	B1/1000		
BH (60°-80°)	580.8	27.2	B2/1000		G0/660
BVH (80°-90°)	25.6	1.2			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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	123.7	123.7	123.7	123.6	123.6	123.5	123.6	123.5	123.5	123.5	123.5
5°	126.9	126.7	126.7	126.5	126.8	126.8	126.5	126.7	126.5	126.7	126.7
7.5°	131.0	131.0	131.0	130.8	131.1	131.0	130.8	131.0	131.0	130.8	130.8
10°	136.0	136.1	136.0	136.0	136.4	136.3	136.4	136.4	136.6	136.4	136.4
12.5°	141.9	141.9	142.0	142.1	142.3	142.4	142.8	142.7	143.0	142.7	142.7
15°	148.7	149.0	148.7	148.7	149.1	149.4	149.5	149.5	149.8	149.7	149.4
17.5°	155.9	156.1	155.9	155.8	156.2	156.6	156.8	156.8	157.2	156.9	156.9
20°	163.3	163.5	163.2	163.0	163.6	163.6	163.9	164.0	164.4	164.6	164.2
22.5°	170.1	170.3	170.1	170.0	170.6	170.6	171.0	171.1	171.7	171.5	171.5
25°	176.8	176.8	176.7	176.7	177.2	177.4	177.8	178.1	178.6	178.6	178.6
27.5°	183.0	183.1	182.8	182.7	183.8	184.2	184.5	185.1	185.5	185.7	185.6
30°	189.9	189.9	189.8	190.2	190.9	191.5	192.0	192.9	193.7	193.4	193.4
32.5°	198.2	198.4	198.3	198.8	199.7	200.5	201.2	202.2	202.6	203.3	202.8
35°	209.2	209.7	209.4	210.0	210.7	211.3	212.8	213.8	214.5	214.9	214.6
37.5°	223.0	222.7	223.2	223.4	224.8	225.5	227.3	228.7	229.8	230.2	229.9
40°	240.1	239.7	240.4	241.1	242.9	243.6	245.7	247.8	249.3	249.8	249.6
42.5°	260.6	261.1	262.3	263.2	265.7	267.7	270.1	273.1	274.8	275.5	274.5
45°	287.5	286.5	288.6	291.1	292.5	296.8	300.7	303.9	306.7	307.8	306.7
47.5°	318.1	318.0	320.5	323.6	327.2	331.2	335.8	340.0	344.9	345.2	343.8
50°	352.0	354.8	356.2	359.2	365.9	370.9	376.8	383.1	387.5	388.9	386.4
52.5°	392.8	394.9	395.7	400.9	407.0	413.2	421.4	428.9	434.1	434.6	433.4
55°	437.1	438.8	440.3	446.6	453.3	458.7	469.2	476.6	481.7	483.7	482.8
57.5°	483.0	484.5	486.5	493.3	500.1	507.8	517.7	526.3	532.3	535.9	535.0
60°	533.8	533.8	538.3	545.1	550.7	559.8	570.1	580.1	586.7	592.4	590.8
62.5°	587.3	588.9	593.2	598.8	604.6	613.0	624.7	636.7	646.7	651.0	650.9
65°	627.9	630.7	636.4	642.8	652.6	662.5	677.2	692.1	704.3	710.5	710.5
67.5°	639.7	641.6	648.7	658.4	672.5	688.2	708.3	729.1	745.6	753.9	748.7
69°	630.3	632.9	639.2	649.8	666.5	685.7	709.6	733.1	752.3	760.8	754.8
70°	619.3	622.2	628.5	638.9	656.2	676.7	700.5	725.9	746.5	753.7	746.9
72.5°	574.4	578.0	582.5	591.5	607.1	626.4	647.8	670.1	689.9	695.6	687.1
75°	497.9	498.6	500.8	507.5	513.1	526.7	545.0	562.7	577.6	580.9	571.9
77.5°	352.4	348.6	344.9	350.6	355.1	372.6	392.4	406.9	422.5	427.2	418.0
80°	154.5	153.1	158.4	166.0	185.6	197.3	216.7	237.4	250.7	266.2	249.6
82.5°	30.5	32.2	37.2	46.0	56.7	71.3	84.0	98.4	111.3	117.2	111.2
85°	12.4	13.5	15.3	17.1	18.4	20.6	24.2	30.1	33.2	33.6	31.9
87.5°	5.2	6.0	8.1	9.6	9.8	9.3	9.6	9.9	8.1	6.5	8.2
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°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	123.5	123.6	123.5	123.6	123.5	123.5	123.6	123.5
5°	126.5	126.7	126.5	126.4	126.2	126.4	126.4	126.4
7.5°	130.8	130.7	130.6	130.6	130.4	130.3	130.6	130.6
10°	136.1	136.0	135.7	135.7	135.6	135.6	135.6	135.6
12.5°	142.6	142.1	142.0	141.6	141.4	141.3	141.3	141.4
15°	149.2	148.8	148.7	148.0	148.0	147.8	147.8	147.8
17.5°	156.3	155.9	155.4	155.4	155.0	154.7	154.8	154.5
20°	163.6	163.0	162.8	162.6	162.1	162.1	162.1	161.9
22.5°	170.7	170.3	169.9	169.3	168.7	168.6	168.6	168.5
25°	177.9	177.2	176.4	175.9	175.3	174.9	174.9	174.9
27.5°	185.2	184.4	183.1	182.4	181.6	181.2	181.2	181.0
30°	192.9	191.9	190.8	189.8	188.7	188.3	188.1	187.8
32.5°	202.1	201.1	200.0	198.6	197.5	196.8	196.8	196.3
35°	213.8	212.6	211.8	210.0	208.6	207.5	207.6	207.9
37.5°	229.1	227.7	227.0	224.8	223.0	221.8	221.8	221.7
40°	248.6	247.2	245.7	243.6	241.3	239.8	239.4	239.4
42.5°	273.4	272.1	270.1	267.1	264.5	262.8	261.4	261.6
45°	304.5	302.9	300.0	296.4	293.2	290.8	288.9	288.9
47.5°	342.2	339.0	335.0	331.8	326.4	322.7	321.3	321.1
50°	385.3	379.3	374.3	369.7	364.0	360.2	358.1	357.6
52.5°	430.4	424.2	417.9	411.9	404.9	401.0	397.7	397.4
55°	479.5	471.6	463.6	457.8	449.5	445.5	442.1	440.2
57.5°	529.5	520.6	514.9	506.5	497.9	495.0	491.8	489.4
60°	585.8	576.1	568.5	559.8	554.2	547.9	544.8	543.0
62.5°	643.4	634.3	624.7	616.3	608.5	604.2	600.0	597.9
65°	701.9	687.0	675.6	664.0	654.8	647.0	640.4	639.6
67.5°	737.8	719.0	699.9	683.1	669.6	658.6	651.9	649.5
69°	740.8	720.3	696.5	676.3	660.6	650.1	642.1	639.6
70°	732.7	712.1	687.0	665.2	649.1	637.5	631.0	626.8
72.5°	673.6	655.5	631.4	609.9	595.3	581.8	575.2	573.6
75°	555.7	536.5	514.3	504.0	493.8	485.3	480.9	480.5
77.5°	394.6	375.0	358.1	344.6	333.6	328.2	329.4	324.8
80°	225.9	200.2	179.9	167.9	151.6	141.9	130.8	138.8
82.5°	97.1	78.5	59.8	48.6	37.1	29.4	24.2	22.6
85°	27.2	22.2	18.5	17.0	15.3	13.7	11.6	10.7
87.5°	9.2	8.8	7.8	7.8	7.1	6.0	4.2	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)