

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: McGRAW-EDISON

Report Number: P197870

Luminaire Tested: **TT-C1-LED-E1-WQ-SG-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-WQ-SG-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3174.5 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 28
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

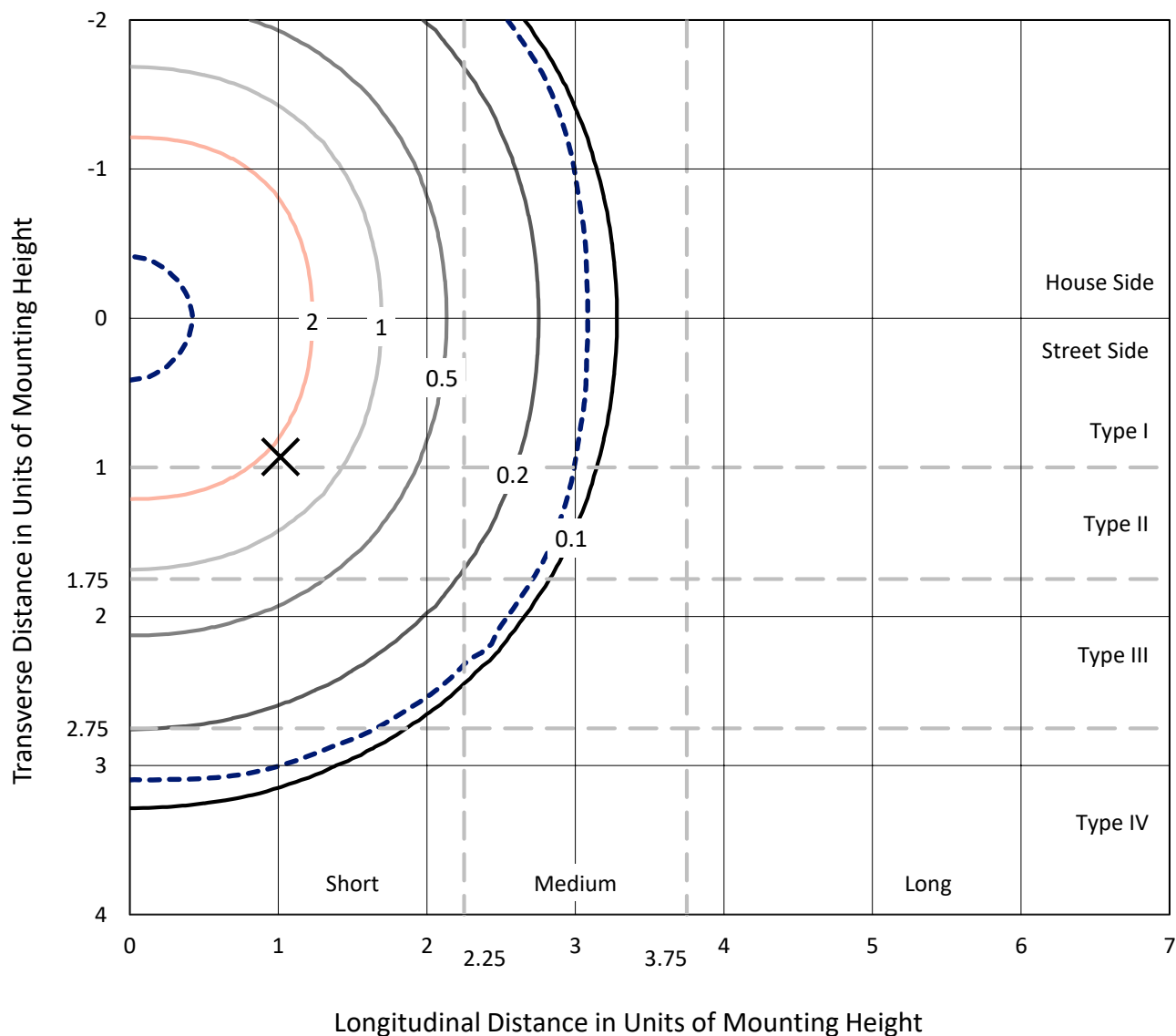


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

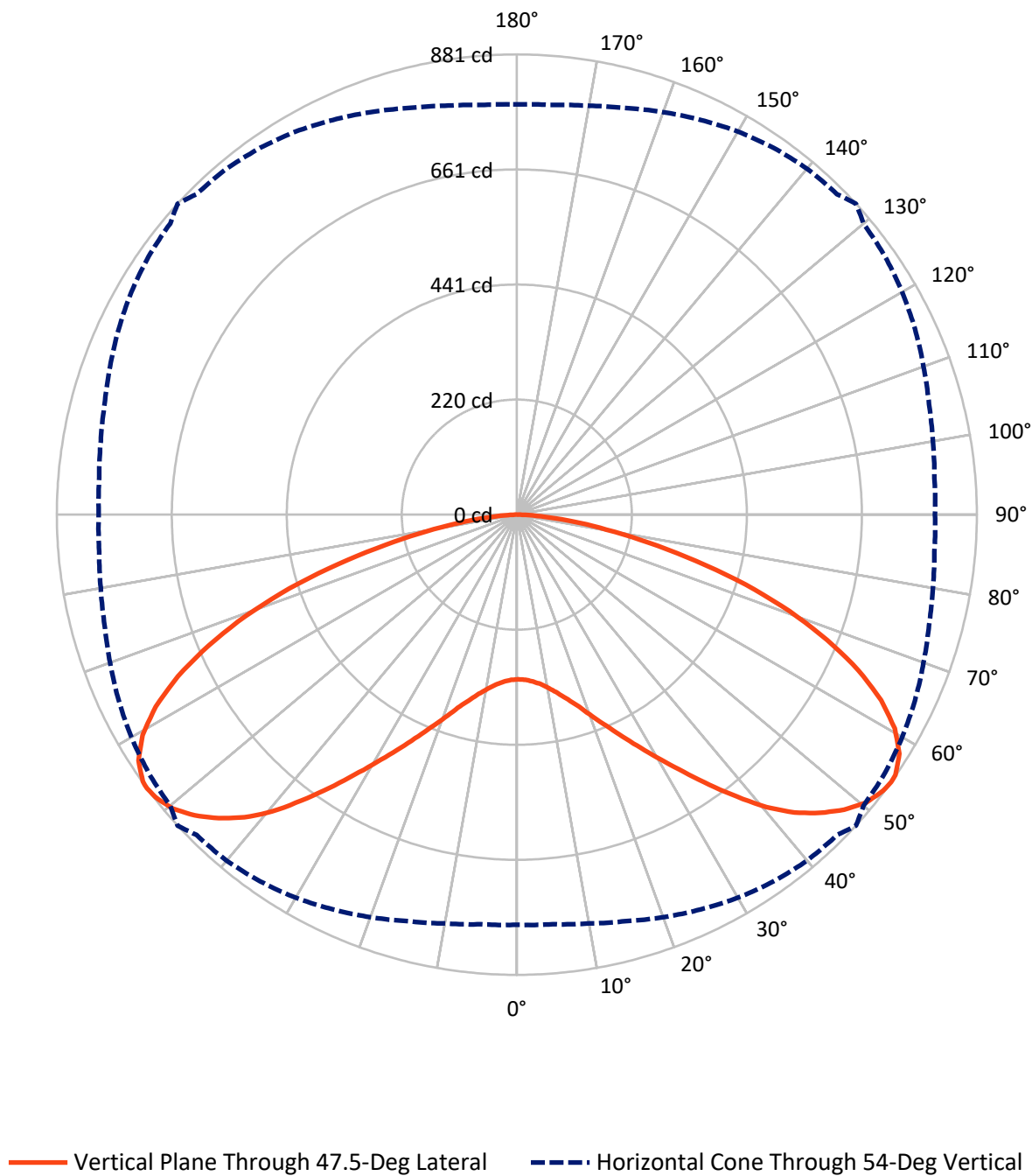


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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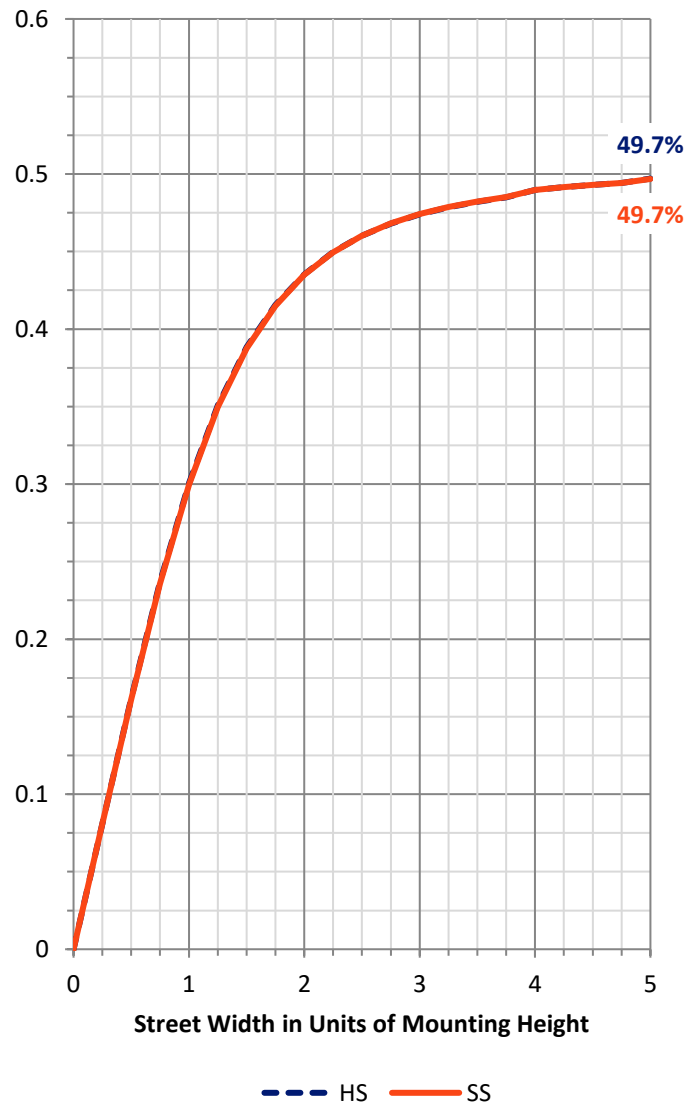
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1587.3	0.0	1587.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1587.3	0.0	1587.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3174.5	0.0	3174.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	1.0
10°-20°	105.5	3.3
20°-30°	217.2	6.8
30°-40°	388.4	12.2
40°-50°	596.0	18.8
50°-60°	734.8	23.1
60°-70°	664.7	20.9
70°-80°	366.0	11.5
80°-90°	70.8	2.2
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°	3174.5	100.0
0°-180°	3174.5	100.0

Coefficient of Utilization



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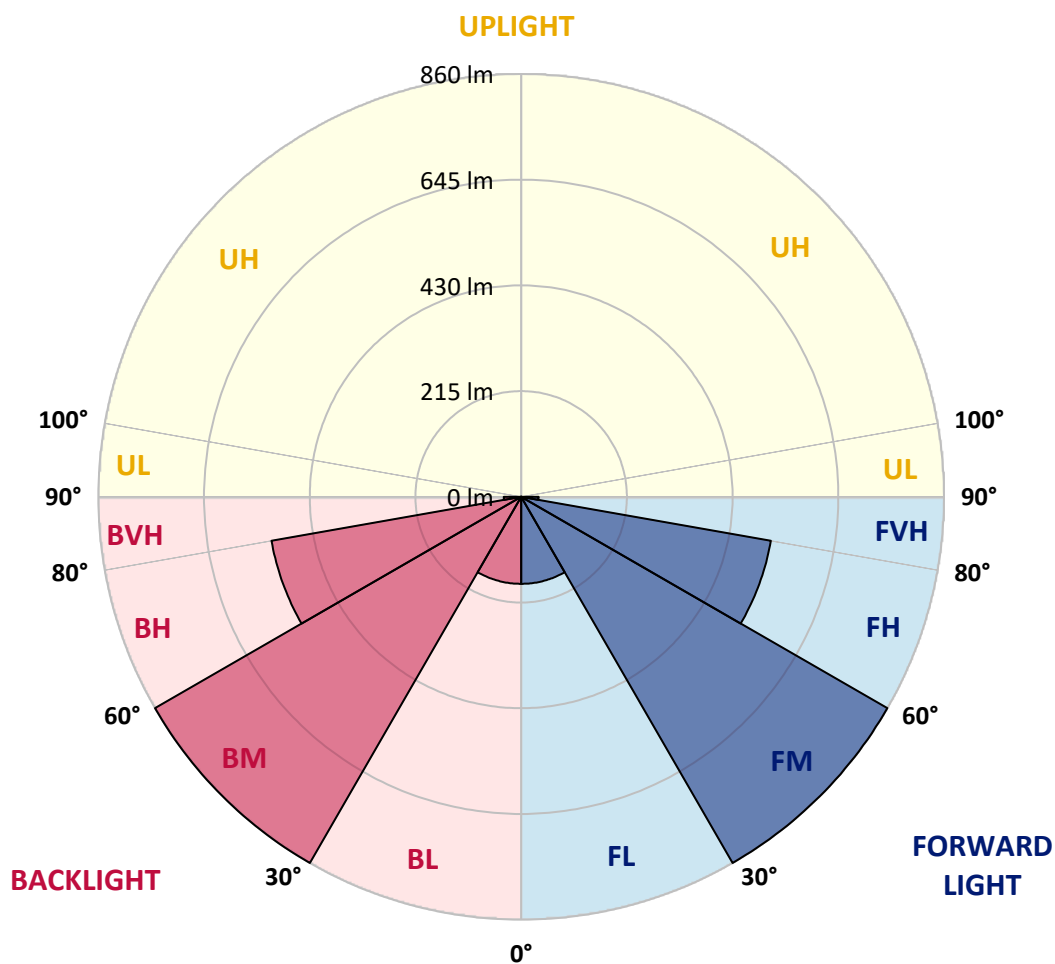
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.9	5.6			
FM	(30°-60°)	859.6	27.1			
FH	(60°-80°)	515.4	16.2			G0/660
FVH	(80°-90°)	35.4	1.1			G1/100
BL	(0°-30°)	176.9	5.6	B1/500		
BM	(30°-60°)	859.6	27.1	B1/1000		
BH	(60°-80°)	515.4	16.2	B2/1000		G0/660
BVH	(80°-90°)	35.4	1.1			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°	47.5°
0°	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
2.5°	316.6	316.6	316.6	316.6	316.6	316.6	316.6	316.6	316.6	316.6	316.6
5°	320.7	320.7	320.7	321.4	320.7	320.7	320.7	320.7	320.7	320.7	320.7
7.5°	327.5	327.5	327.5	327.5	327.5	327.5	326.9	326.9	327.5	326.9	327.5
10°	337.1	336.5	336.5	337.1	337.1	336.5	337.1	337.1	337.1	337.1	337.8
12.5°	349.5	349.5	350.2	350.2	350.2	350.8	350.8	350.2	350.8	350.8	350.8
15°	365.9	365.9	365.9	365.9	366.6	367.3	366.6	366.6	365.9	365.9	367.3
17.5°	385.1	385.1	385.1	385.1	386.5	386.5	385.8	386.5	387.2	387.2	386.5
20°	408.4	407.7	407.0	407.7	409.1	409.1	409.8	410.5	410.5	410.5	411.8
22.5°	433.1	432.4	433.8	434.4	435.1	435.8	435.8	436.5	437.9	437.2	439.2
25°	460.5	459.8	460.5	461.8	464.6	464.6	465.3	466.6	466.6	466.0	470.8
27.5°	491.3	491.3	492.0	494.7	495.4	496.1	498.2	499.5	501.6	501.6	505.7
30°	524.9	524.2	525.6	528.3	530.4	532.4	535.2	538.6	539.3	540.0	544.1
32.5°	559.2	559.2	560.5	565.3	568.7	572.2	576.3	579.7	581.1	581.1	587.2
35°	595.5	596.2	599.6	603.0	609.9	614.0	618.1	622.9	625.6	627.0	635.2
37.5°	633.8	635.9	638.6	643.4	650.3	657.1	663.3	670.8	675.0	676.3	685.2
40°	670.2	672.9	677.0	683.9	690.7	700.3	707.8	715.4	720.2	722.9	736.6
42.5°	705.8	707.2	712.0	719.5	728.4	737.3	747.6	755.8	760.6	764.7	779.8
45°	733.9	735.3	741.4	750.3	760.6	771.6	781.9	791.4	796.2	799.7	814.7
47.5°	757.2	759.9	766.8	775.7	786.0	799.0	810.6	820.2	826.4	828.4	844.2
50°	774.3	778.4	784.6	794.9	807.2	820.2	832.6	842.8	849.7	852.4	866.8
52.5°	783.9	787.3	794.2	804.5	818.9	831.9	844.9	855.2	862.7	865.5	878.5
54°	785.3	787.3	794.9	805.8	820.2	833.9	847.0	857.2	864.8	867.5	881.2
55°	783.9	785.3	793.5	803.8	818.9	832.6	845.6	855.9	864.1	866.8	879.8
57.5°	770.2	772.3	779.1	790.1	803.8	819.5	831.9	842.2	850.4	851.7	864.1
60°	742.1	744.9	751.0	762.7	776.4	790.1	802.4	811.3	818.9	823.0	831.9
62.5°	701.7	703.1	709.2	719.5	731.8	746.2	755.8	764.7	771.6	775.7	783.2
65°	644.1	650.3	655.1	663.3	672.9	684.6	696.9	703.7	707.2	714.0	719.5
67.5°	579.7	583.8	588.6	596.2	602.3	609.9	621.5	627.7	631.8	636.6	641.4
70°	507.8	506.4	511.9	516.0	522.8	527.6	535.2	538.6	543.4	546.1	554.4
72.5°	422.1	424.2	429.0	433.8	435.8	437.2	443.3	445.4	449.5	448.1	458.4
75°	344.7	341.2	342.6	343.3	344.7	343.3	347.4	349.5	351.5	349.5	355.0
77.5°	260.4	256.3	257.6	257.0	257.0	255.6	254.9	254.9	255.6	254.2	257.6
80°	179.5	177.5	178.2	179.5	176.1	176.8	172.7	172.7	172.7	172.7	174.0
82.5°	111.0	108.3	107.6	108.3	108.3	106.2	106.9	104.2	103.5	102.8	109.0
85°	54.1	52.8	54.1	52.8	52.1	52.1	50.7	51.4	50.0	49.3	53.4
87.5°	14.4	13.7	13.7	13.7	13.0	13.7	13.7	13.7	13.7	14.4	16.4
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2	315.2
2.5°	316.6	316.6	316.6	316.6	316.6	316.6	316.6	316.6	315.9
5°	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
7.5°	327.5	327.5	326.9	326.9	326.9	326.9	326.9	326.9	326.9
10°	337.1	337.8	336.5	336.5	337.1	336.5	336.5	335.8	335.8
12.5°	350.8	350.2	350.8	350.8	350.2	349.5	348.8	348.1	348.8
15°	366.6	365.9	365.9	365.9	365.2	365.2	364.5	365.2	364.5
17.5°	385.8	385.8	386.5	384.4	385.1	383.7	383.7	383.7	383.0
20°	410.5	409.8	409.1	407.0	407.7	406.3	405.7	405.0	404.3
22.5°	437.2	435.8	435.1	433.1	433.8	432.4	430.3	429.0	429.0
25°	466.6	465.3	463.9	463.2	462.5	459.8	458.4	456.4	457.7
27.5°	501.6	498.9	496.8	494.1	494.7	491.3	489.9	488.6	488.6
30°	539.3	537.2	533.8	531.7	531.1	527.6	524.9	523.5	522.8
32.5°	580.4	579.0	577.0	573.5	572.2	566.7	564.6	562.6	561.9
35°	629.0	625.6	623.6	618.8	614.0	610.5	605.7	604.4	603.0
37.5°	674.3	674.3	670.8	665.4	658.5	653.7	649.6	646.9	644.8
40°	722.2	720.9	715.4	710.6	703.7	696.9	689.3	686.6	685.2
42.5°	764.7	762.0	756.5	750.3	743.5	735.3	727.0	722.9	722.2
45°	800.4	796.9	791.4	783.2	774.3	766.1	758.6	754.4	752.4
47.5°	829.1	825.0	818.2	810.6	800.4	790.8	783.2	779.1	776.4
50°	850.4	847.0	839.4	829.8	819.5	808.6	801.0	796.2	794.2
52.5°	864.1	859.3	851.1	840.8	829.1	818.2	809.3	803.8	801.7
54°	866.8	861.3	852.4	841.5	829.1	817.5	809.3	803.1	801.0
55°	865.5	860.0	850.4	840.1	827.1	815.4	806.5	800.4	798.3
57.5°	851.1	844.9	836.0	825.0	811.3	799.7	791.4	784.6	782.5
60°	820.2	814.7	804.5	794.9	781.2	769.5	760.6	753.8	751.7
62.5°	772.9	768.1	759.2	749.6	735.3	725.0	716.1	712.0	706.5
65°	709.9	706.5	697.6	685.9	675.6	665.4	656.5	653.7	650.3
67.5°	634.5	629.7	626.3	614.7	606.4	596.8	587.9	582.5	581.1
70°	545.4	543.4	540.0	529.0	524.2	516.0	509.8	505.0	503.6
72.5°	449.5	447.5	446.8	441.3	435.1	427.6	424.8	420.7	420.0
75°	349.5	348.1	349.5	345.4	343.3	341.2	339.9	339.9	337.8
77.5°	252.9	254.9	255.6	255.6	257.0	257.0	258.3	256.3	254.2
80°	172.0	174.0	173.4	174.7	174.0	178.8	175.4	178.2	175.4
82.5°	103.5	106.2	106.2	106.2	109.0	108.3	108.3	109.6	109.0
85°	50.7	51.4	50.7	50.0	53.4	52.8	52.8	52.1	52.8
87.5°	15.1	13.7	14.4	13.0	14.4	12.3	13.7	13.7	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)