

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: P197876

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197876
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-C2-LED-E1-WQ-SG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.1 lumens
Efficiency: N/A
Efficacy: 104.9 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): 34
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

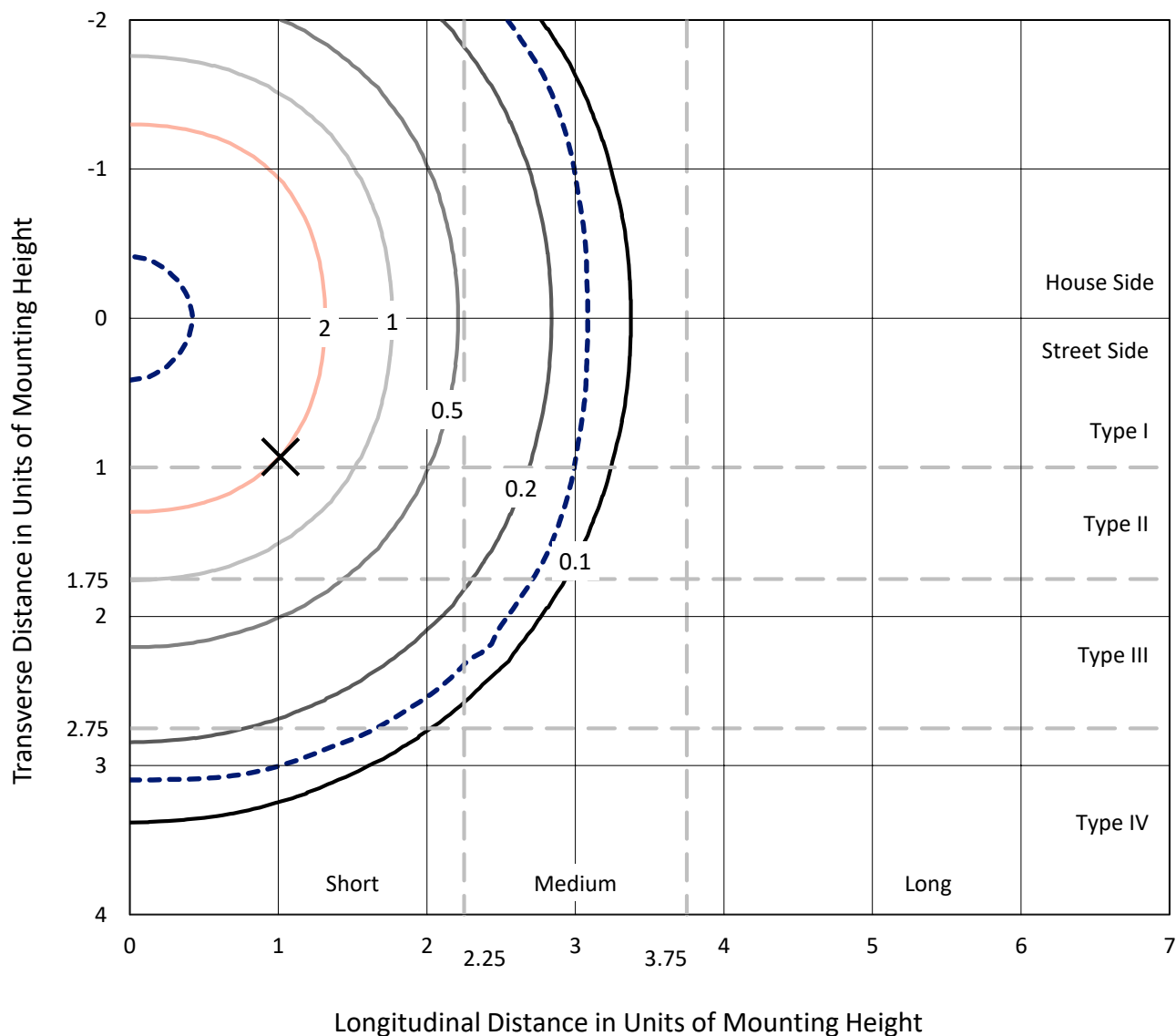


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

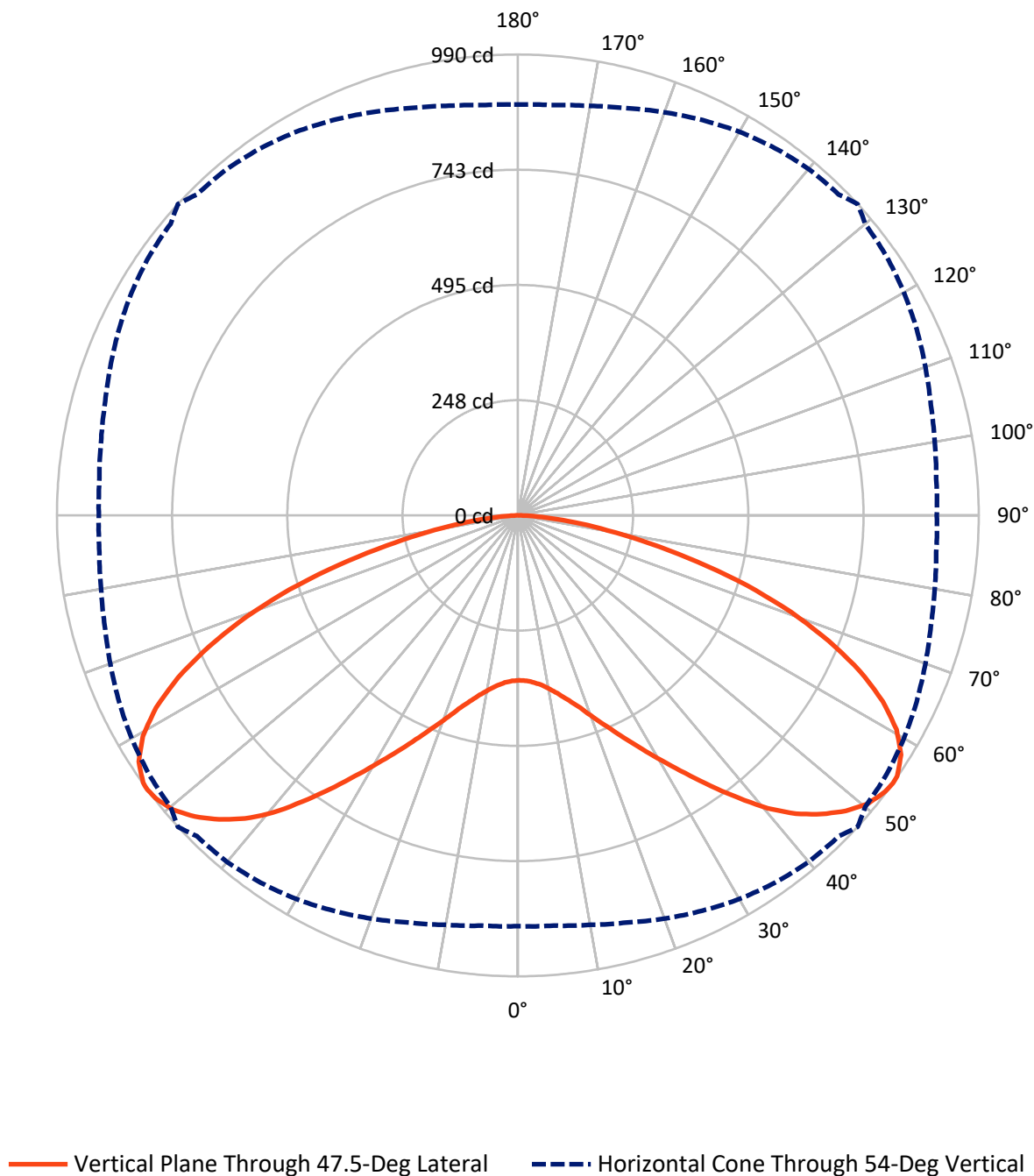


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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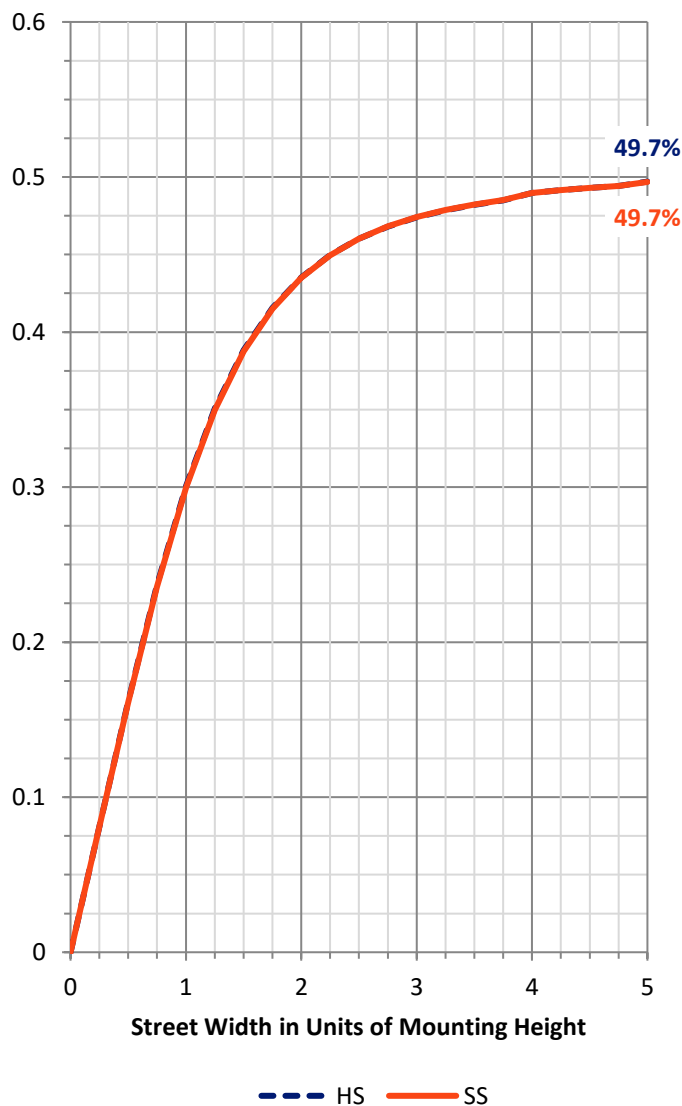
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1783.5	0.0	1783.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1783.5	0.0	1783.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3567.1	0.0	3567.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.0
10°-20°	118.5	3.3
20°-30°	244.1	6.8
30°-40°	436.5	12.2
40°-50°	669.7	18.8
50°-60°	825.6	23.1
60°-70°	746.9	20.9
70°-80°	411.3	11.5
80°-90°	79.6	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°	3567.1	100.0
0°-180°	3567.1	100.0

Coefficient of Utilization



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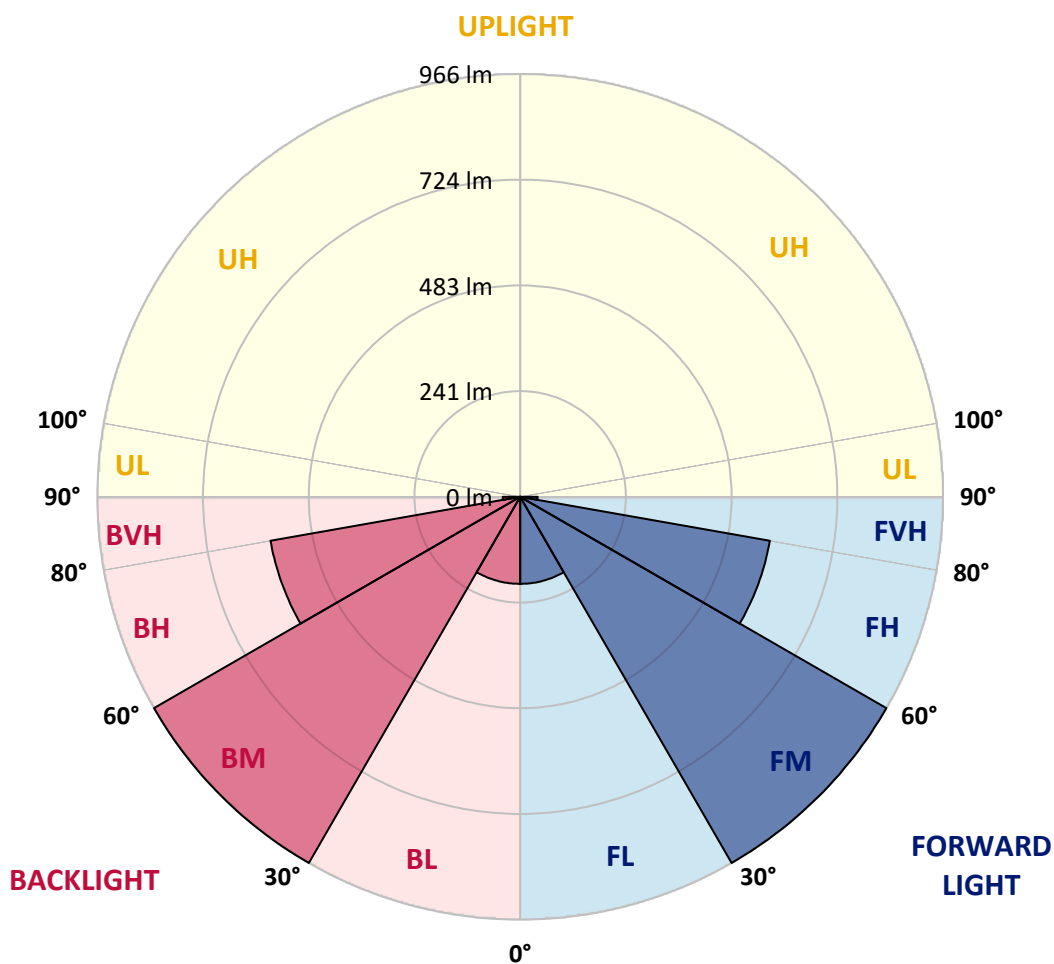
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.8	5.6			
FM	(30°-60°)	965.9	27.1			
FH	(60°-80°)	579.1	16.2			G0/660
FVH	(80°-90°)	39.8	1.1			G1/100
BL	(0°-30°)	198.8	5.6	B1/500		
BM	(30°-60°)	965.9	27.1	B1/1000		
BH	(60°-80°)	579.1	16.2	B2/1000		G0/660
BVH	(80°-90°)	39.8	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°	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2
2.5°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7
5°	360.3	360.3	360.3	361.1	360.3	360.3	360.3	360.3	360.3	360.3	360.3
7.5°	368.0	368.0	368.0	368.0	368.0	368.0	367.3	367.3	368.0	367.3	368.0
10°	378.8	378.1	378.1	378.8	378.8	378.1	378.8	378.8	378.8	378.8	379.6
12.5°	392.7	392.7	393.5	393.5	393.5	394.2	394.2	393.5	394.2	394.2	394.2
15°	411.2	411.2	411.2	411.2	411.9	412.7	411.9	411.9	411.2	411.2	412.7
17.5°	432.7	432.7	432.7	432.7	434.3	434.3	433.5	434.3	435.0	435.0	434.3
20°	458.9	458.1	457.4	458.1	459.7	459.7	460.4	461.2	461.2	461.2	462.8
22.5°	486.6	485.9	487.4	488.2	488.9	489.7	489.7	490.5	492.0	491.2	493.6
25°	517.4	516.7	517.4	519.0	522.0	522.0	522.8	524.4	524.4	523.6	529.0
27.5°	552.1	552.1	552.8	555.9	556.7	557.5	559.8	561.3	563.6	563.6	568.2
30°	589.8	589.0	590.6	593.7	596.0	598.3	601.4	605.2	606.0	606.7	611.4
32.5°	628.3	628.3	629.8	635.2	639.1	642.9	647.6	651.4	652.9	652.9	659.9
35°	669.1	669.9	673.7	677.6	685.3	689.9	694.5	699.9	703.0	704.5	713.8
37.5°	712.2	714.5	717.6	723.0	730.7	738.4	745.3	753.8	758.4	760.0	770.0
40°	753.0	756.1	760.7	768.4	776.1	786.9	795.4	803.9	809.2	812.3	827.7
42.5°	793.1	794.6	800.0	808.5	818.5	828.5	840.0	849.3	854.7	859.3	876.2
45°	824.6	826.2	833.1	843.1	854.7	867.0	878.5	889.3	894.7	898.6	915.5
47.5°	850.8	853.9	861.6	871.6	883.2	897.8	910.9	921.7	928.6	930.9	948.6
50°	870.1	874.7	881.6	893.2	907.0	921.7	935.5	947.1	954.8	957.9	974.0
52.5°	880.9	884.7	892.4	904.0	920.1	934.8	949.4	960.9	969.4	972.5	987.1
54°	882.4	884.7	893.2	905.5	921.7	937.1	951.7	963.2	971.7	974.8	990.2
55°	880.9	882.4	891.6	903.2	920.1	935.5	950.2	961.7	970.9	974.0	988.6
57.5°	865.5	867.8	875.5	887.8	903.2	920.9	934.8	946.3	955.5	957.1	970.9
60°	833.9	837.0	843.9	857.0	872.4	887.8	901.6	911.7	920.1	924.7	934.8
62.5°	788.5	790.0	796.9	808.5	822.3	838.5	849.3	859.3	867.0	871.6	880.1
65°	723.8	730.7	736.1	745.3	756.1	769.2	783.1	790.8	794.6	802.3	808.5
67.5°	651.4	656.0	661.4	669.9	676.8	685.3	698.4	705.3	709.9	715.3	720.7
70°	570.6	569.0	575.2	579.8	587.5	592.9	601.4	605.2	610.6	613.7	622.9
72.5°	474.3	476.6	482.0	487.4	489.7	491.2	498.2	500.5	505.1	503.6	515.1
75°	387.3	383.4	385.0	385.8	387.3	385.8	390.4	392.7	395.0	392.7	398.8
77.5°	292.6	288.0	289.5	288.7	288.7	287.2	286.4	286.4	287.2	285.7	289.5
80°	201.7	199.4	200.2	201.7	197.9	198.7	194.0	194.0	194.0	194.0	195.6
82.5°	124.7	121.7	120.9	121.7	121.7	119.3	120.1	117.0	116.3	115.5	122.4
85°	60.8	59.3	60.8	59.3	58.5	58.5	57.0	57.7	56.2	55.4	60.1
87.5°	16.2	15.4	15.4	15.4	14.6	15.4	15.4	15.4	15.4	16.2	18.5
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°	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2
2.5°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.0
5°	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3	360.3
7.5°	368.0	368.0	367.3	367.3	367.3	367.3	367.3	367.3	367.3
10°	378.8	379.6	378.1	378.1	378.8	378.1	378.1	377.3	377.3
12.5°	394.2	393.5	394.2	394.2	393.5	392.7	391.9	391.1	391.9
15°	411.9	411.2	411.2	411.2	410.4	410.4	409.6	410.4	409.6
17.5°	433.5	433.5	434.3	432.0	432.7	431.2	431.2	431.2	430.4
20°	461.2	460.4	459.7	457.4	458.1	456.6	455.8	455.1	454.3
22.5°	491.2	489.7	488.9	486.6	487.4	485.9	483.5	482.0	482.0
25°	524.4	522.8	521.3	520.5	519.7	516.7	515.1	512.8	514.3
27.5°	563.6	560.5	558.2	555.2	555.9	552.1	550.5	549.0	549.0
30°	606.0	603.7	599.8	597.5	596.7	592.9	589.8	588.3	587.5
32.5°	652.2	650.6	648.3	644.5	642.9	636.8	634.5	632.2	631.4
35°	706.8	703.0	700.7	695.3	689.9	686.0	680.7	679.1	677.6
37.5°	757.7	757.7	753.8	747.6	739.9	734.6	729.9	726.9	724.5
40°	811.6	810.0	803.9	798.5	790.8	783.1	774.6	771.5	770.0
42.5°	859.3	856.2	850.1	843.1	835.4	826.2	816.9	812.3	811.6
45°	899.3	895.5	889.3	880.1	870.1	860.8	852.4	847.7	845.4
47.5°	931.7	927.1	919.4	910.9	899.3	888.6	880.1	875.5	872.4
50°	955.5	951.7	943.2	932.4	920.9	908.6	900.1	894.7	892.4
52.5°	970.9	965.6	956.3	944.8	931.7	919.4	909.3	903.2	900.9
54°	974.0	967.9	957.9	945.5	931.7	918.6	909.3	902.4	900.1
55°	972.5	966.3	955.5	944.0	929.4	916.3	906.3	899.3	897.0
57.5°	956.3	949.4	939.4	927.1	911.7	898.6	889.3	881.6	879.3
60°	921.7	915.5	904.0	893.2	877.8	864.7	854.7	847.0	844.7
62.5°	868.5	863.1	853.1	842.4	826.2	814.6	804.6	800.0	793.8
65°	797.7	793.8	783.8	770.7	759.2	747.6	737.6	734.6	730.7
67.5°	713.0	707.6	703.8	690.7	681.4	670.6	660.6	654.5	652.9
70°	612.9	610.6	606.7	594.4	589.0	579.8	572.9	567.5	565.9
72.5°	505.1	502.8	502.0	495.9	488.9	480.5	477.4	472.8	472.0
75°	392.7	391.1	392.7	388.1	385.8	383.4	381.9	381.9	379.6
77.5°	284.1	286.4	287.2	287.2	288.7	288.7	290.3	288.0	285.7
80°	193.3	195.6	194.8	196.3	195.6	201.0	197.1	200.2	197.1
82.5°	116.3	119.3	119.3	119.3	122.4	121.7	121.7	123.2	122.4
85°	57.0	57.7	57.0	56.2	60.1	59.3	59.3	58.5	59.3
87.5°	16.9	15.4	16.2	14.6	16.2	13.9	15.4	15.4	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)