

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: P197510

Luminaire Tested: **TT-C1-LED-E1-CQ-LWR-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-CQ-LWR-LW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3646 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - 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

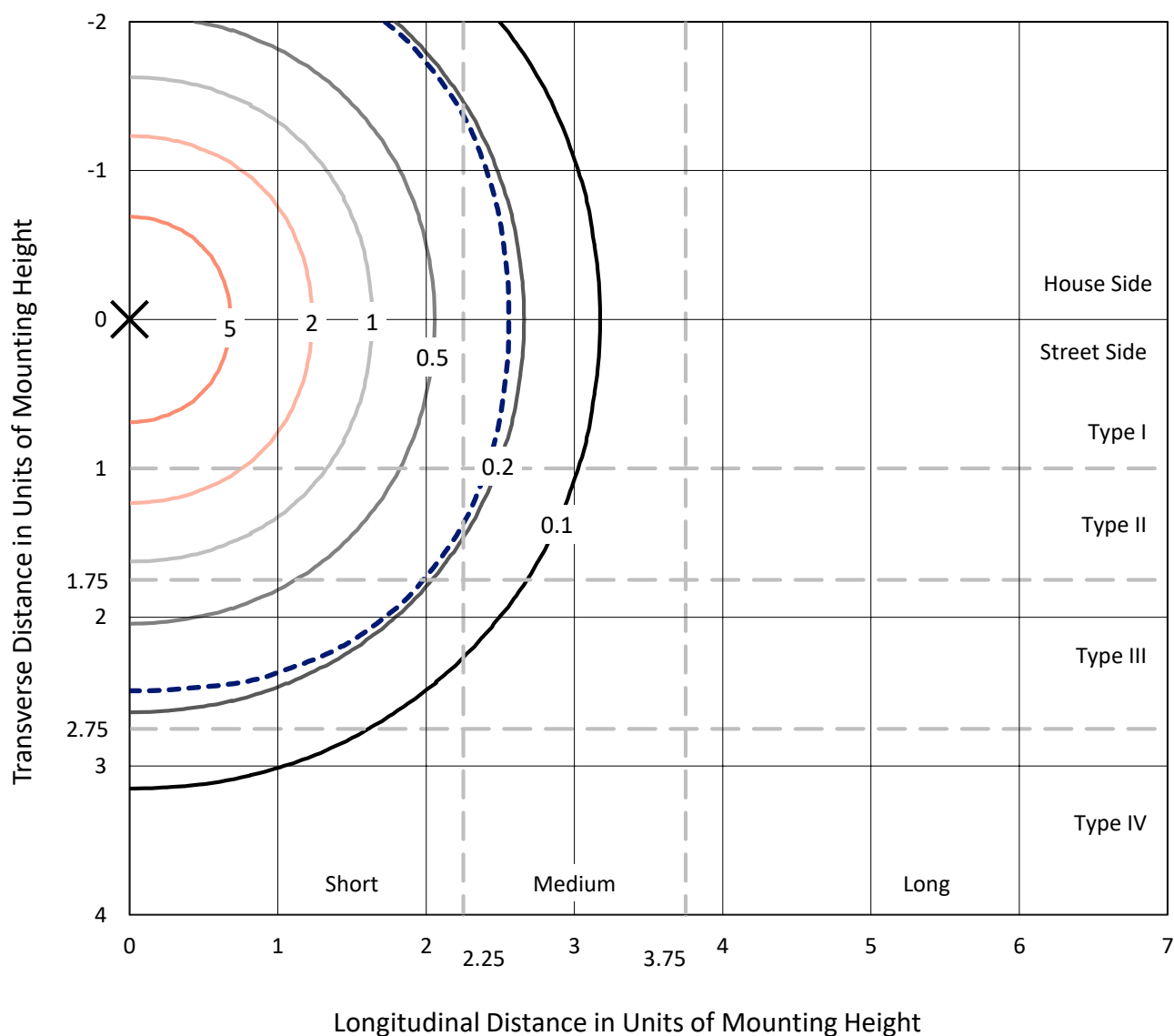


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

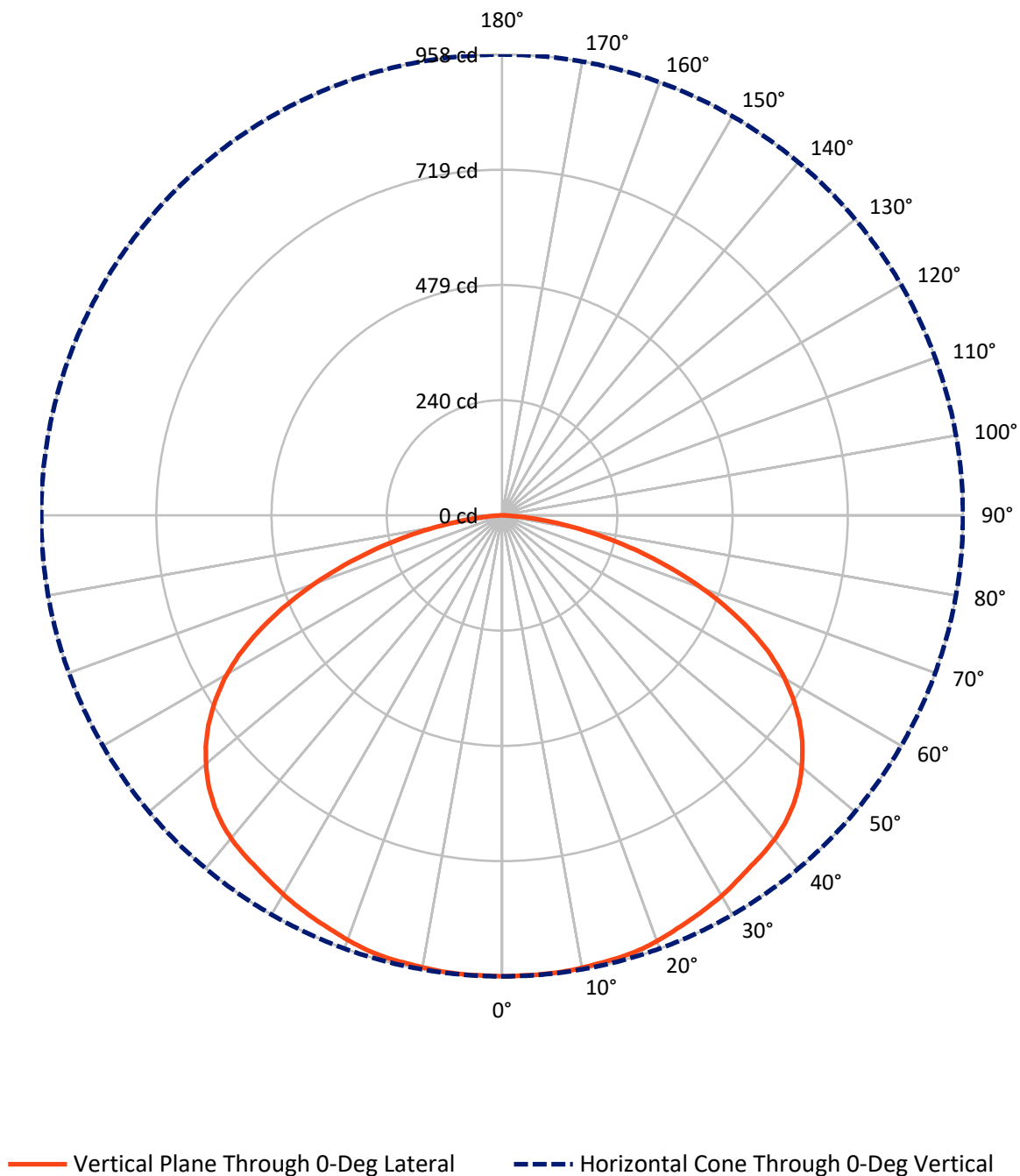


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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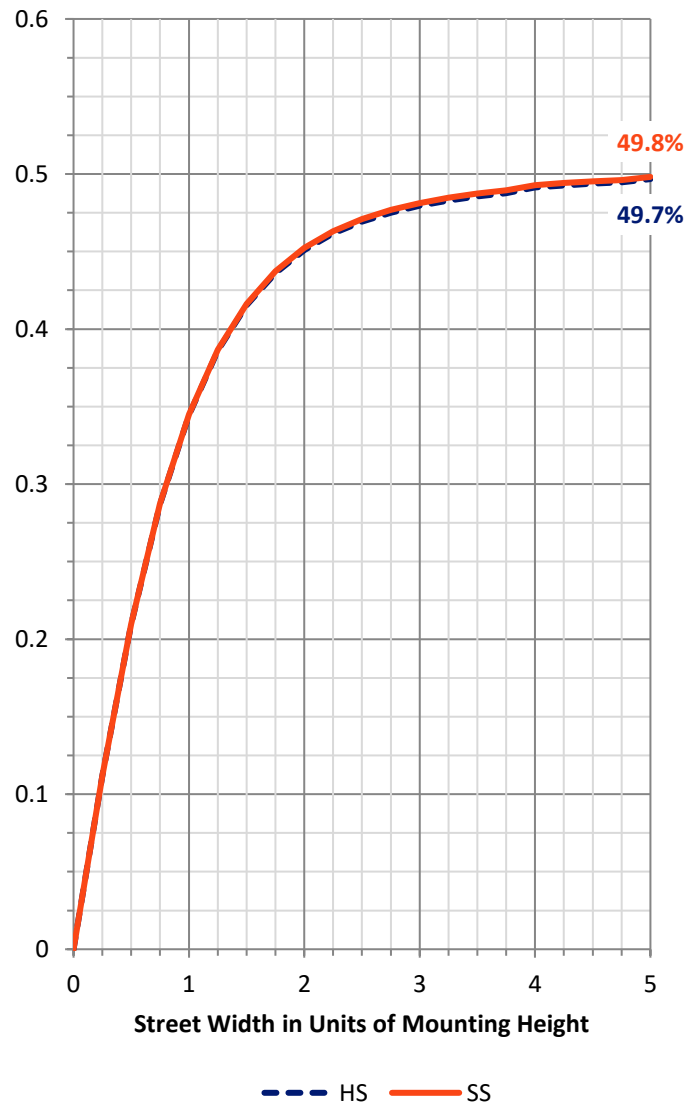
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1823.0	0.0	1823.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1823.0	0.0	1823.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3646.0	0.0	3646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	2.5
10°-20°	268.9	7.4
20°-30°	428.2	11.7
30°-40°	561.4	15.4
40°-50°	662.2	18.2
50°-60°	685.8	18.8
60°-70°	573.5	15.7
70°-80°	312.6	8.6
80°-90°	62.1	1.7
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°	3646.0	100.0
0°-180°	3646.0	100.0

Coefficient of Utilization



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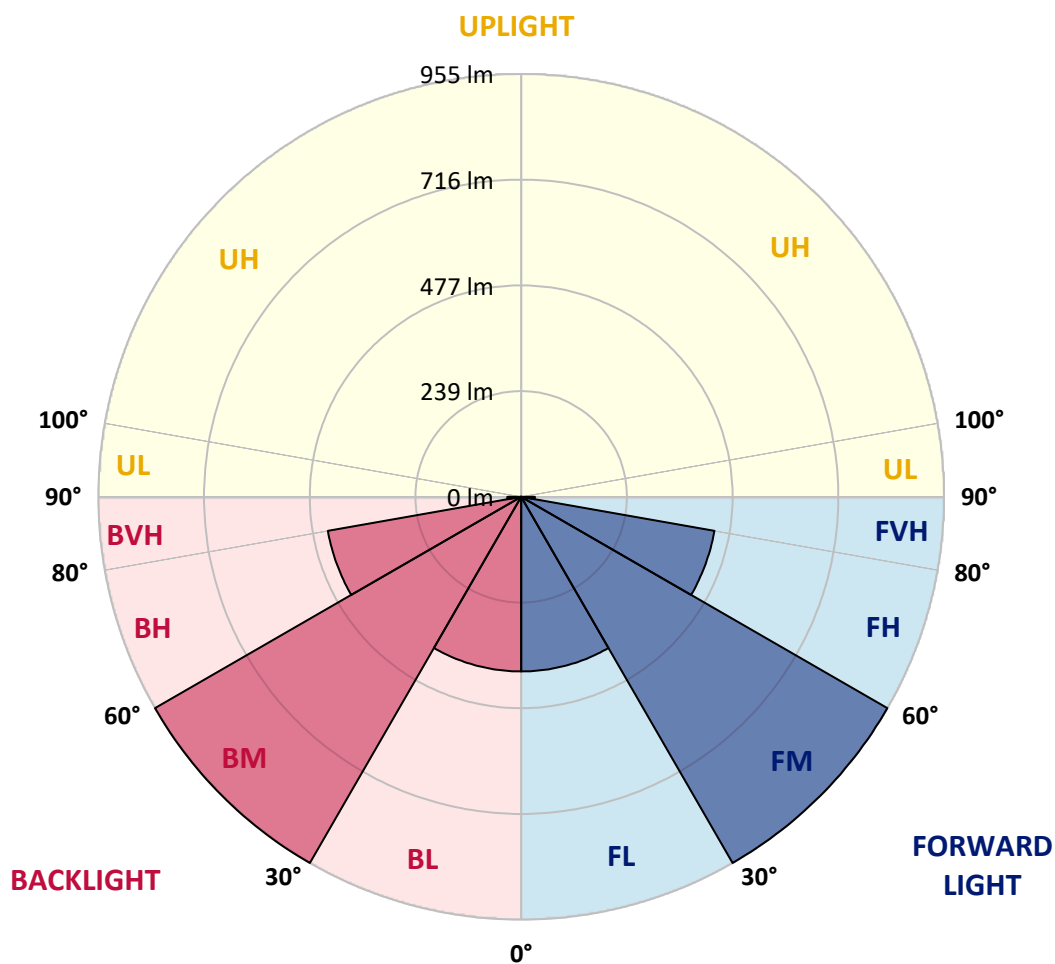
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.2	10.8			
FM	(30°-60°)	954.7	26.2			
FH	(60°-80°)	443.1	12.2			G0/660
FVH	(80°-90°)	31.0	0.9			G1/100
BL	(0°-30°)	394.2	10.8	B1/500		
BM	(30°-60°)	954.7	26.2	B1/1000		
BH	(60°-80°)	443.1	12.2	B1/500		G0/660
BVH	(80°-90°)	31.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2
2.5°	957.4	958.2	958.2	958.2	958.2	958.2	958.2	958.2	957.4	958.2	958.2
5°	957.4	957.4	957.4	957.4	958.2	957.4	957.4	957.4	957.4	957.4	957.4
7.5°	956.7	955.9	955.9	955.9	955.9	955.9	956.7	956.7	956.7	956.7	956.7
10°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
12.5°	952.1	952.1	952.1	952.1	952.8	952.8	952.8	952.8	952.8	952.8	952.1
15°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
17.5°	946.7	946.7	946.7	946.7	947.5	947.5	947.5	947.5	947.5	947.5	947.5
20°	940.5	940.5	940.5	940.5	940.5	941.3	942.1	942.1	942.1	942.1	942.1
22.5°	932.9	932.9	933.6	933.6	934.4	934.4	935.2	935.2	935.2	935.2	935.2
25°	926.0	926.0	926.0	926.7	926.7	926.7	927.5	928.3	928.3	928.3	927.5
27.5°	919.1	919.1	919.1	919.8	919.8	919.8	920.6	920.6	921.4	920.6	920.6
30°	911.4	910.6	910.6	911.4	912.2	912.2	912.9	912.9	912.9	912.9	912.2
32.5°	902.2	902.2	903.0	903.7	903.7	904.5	905.3	905.3	905.3	906.0	904.5
35°	893.7	894.5	894.5	895.3	896.8	897.6	898.4	899.1	899.1	899.1	897.6
37.5°	886.8	887.6	888.4	889.9	891.4	893.0	894.5	896.1	895.3	895.3	893.0
40°	878.4	879.2	880.7	882.2	885.3	886.8	889.1	890.7	891.4	890.7	888.4
42.5°	866.9	867.7	869.2	871.5	875.3	878.4	880.7	883.0	883.8	883.0	880.7
45°	851.6	852.3	853.9	856.9	861.5	864.6	868.4	870.7	872.3	872.3	870.0
47.5°	832.4	833.1	835.4	838.5	843.1	847.0	851.6	854.6	856.2	857.7	855.4
50°	808.6	809.4	812.4	816.3	820.1	825.5	830.8	835.4	837.7	838.5	837.7
52.5°	781.7	782.5	785.6	789.4	794.8	800.9	807.1	812.4	815.5	817.0	815.5
55°	749.5	751.1	753.4	758.7	764.9	770.2	777.9	784.0	787.9	788.6	787.9
57.5°	711.9	714.2	716.5	722.7	728.8	736.5	742.6	748.8	753.4	754.1	754.1
60°	669.7	671.3	673.6	679.7	686.6	692.0	700.4	706.6	710.4	710.4	711.2
62.5°	619.9	621.4	625.2	629.8	637.5	642.9	649.8	655.9	659.8	661.3	660.5
65°	561.6	563.1	565.4	571.5	577.7	583.8	590.7	596.1	599.9	600.7	599.9
67.5°	497.1	498.7	500.2	507.9	514.0	516.3	524.7	529.3	531.6	532.4	532.4
70°	428.8	429.6	431.9	435.8	442.7	445.0	450.3	454.2	455.7	458.8	456.5
72.5°	357.5	359.0	364.4	365.2	370.5	373.6	375.1	375.1	379.0	379.0	379.7
75°	286.9	287.7	290.0	290.8	294.6	294.6	293.8	295.4	298.4	298.4	299.2
77.5°	217.1	217.1	220.9	217.9	219.4	216.3	217.9	216.3	218.6	217.9	218.6
80°	151.9	151.9	154.2	151.1	151.9	148.8	149.6	148.8	148.8	149.6	149.6
82.5°	93.6	94.4	95.9	93.6	93.6	91.3	92.1	92.8	92.8	92.1	91.3
85°	46.0	46.0	47.6	46.8	46.0	44.5	45.3	46.0	46.0	45.3	45.3
87.5°	12.3	12.3	13.0	13.0	12.3	11.5	12.3	13.0	13.0	13.0	12.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2
2.5°	957.4	957.4	958.2	957.4	958.2	957.4	958.2	958.2
5°	957.4	957.4	957.4	957.4	957.4	957.4	957.4	957.4
7.5°	955.9	956.7	955.9	955.9	955.9	956.7	955.9	956.7
10°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
12.5°	952.1	952.1	952.1	952.1	952.1	952.1	952.1	951.3
15°	950.5	949.8	949.8	949.8	949.0	949.0	949.0	949.0
17.5°	947.5	946.7	945.9	945.9	945.9	945.9	945.2	945.2
20°	942.1	941.3	940.5	940.5	939.8	939.8	939.0	939.0
22.5°	934.4	934.4	933.6	932.9	932.9	932.1	932.1	931.3
25°	927.5	926.7	926.0	925.2	924.4	924.4	923.7	922.9
27.5°	919.8	918.3	917.5	916.8	916.0	915.2	914.5	913.7
30°	911.4	909.9	908.3	907.6	906.0	904.5	903.7	903.0
32.5°	903.0	901.4	899.1	896.8	895.3	893.7	892.2	891.4
35°	896.1	893.0	890.7	887.6	885.3	883.0	882.2	881.5
37.5°	890.7	887.6	883.8	880.7	878.4	875.3	873.8	872.3
40°	885.3	881.5	876.9	873.0	870.0	866.1	864.6	863.1
42.5°	877.6	873.0	868.4	863.8	859.2	855.4	853.1	851.6
45°	866.9	862.3	856.9	850.8	846.2	841.6	839.3	837.7
47.5°	852.3	847.7	841.6	836.2	830.8	826.2	823.2	821.6
50°	834.7	830.1	823.9	817.8	812.4	807.1	804.8	802.5
52.5°	812.4	808.6	801.7	797.1	790.9	785.6	783.3	781.7
55°	784.8	781.0	774.1	769.5	763.3	758.7	755.7	753.4
57.5°	751.1	748.0	740.3	735.7	729.6	725.0	722.7	721.1
60°	709.6	706.6	698.9	694.3	688.9	683.5	682.0	680.5
62.5°	658.2	656.7	650.6	645.2	639.8	634.4	632.9	632.1
65°	598.4	596.9	591.5	586.9	582.3	577.7	576.1	574.6
67.5°	530.1	529.3	524.7	520.9	517.8	513.2	512.5	510.9
70°	457.2	455.7	451.9	448.8	446.5	442.7	441.9	440.4
72.5°	381.3	380.5	378.2	374.4	374.4	369.0	368.2	367.5
75°	297.7	301.5	298.4	296.9	296.9	293.8	293.8	293.1
77.5°	217.9	221.7	224.0	220.9	224.0	220.9	220.9	220.2
80°	148.8	151.9	154.2	151.9	155.7	153.4	153.4	156.5
82.5°	90.5	93.6	95.1	94.4	96.7	95.9	95.1	97.4
85°	44.5	46.0	46.8	46.8	47.6	46.0	47.6	48.3
87.5°	11.5	12.3	13.0	12.3	13.0	13.0	13.0	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)