

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: P197852

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-WQ-CG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3895.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-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

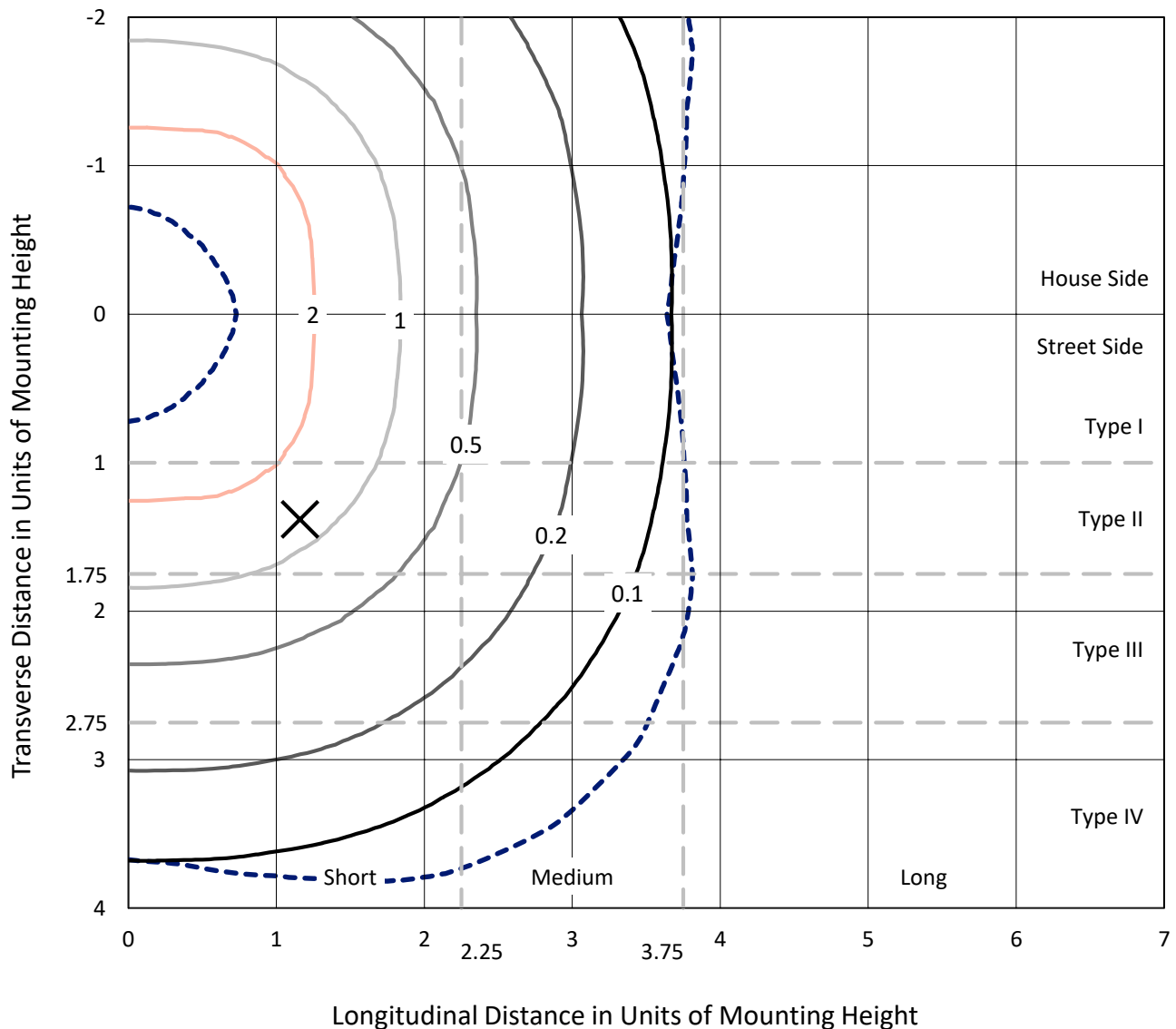


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

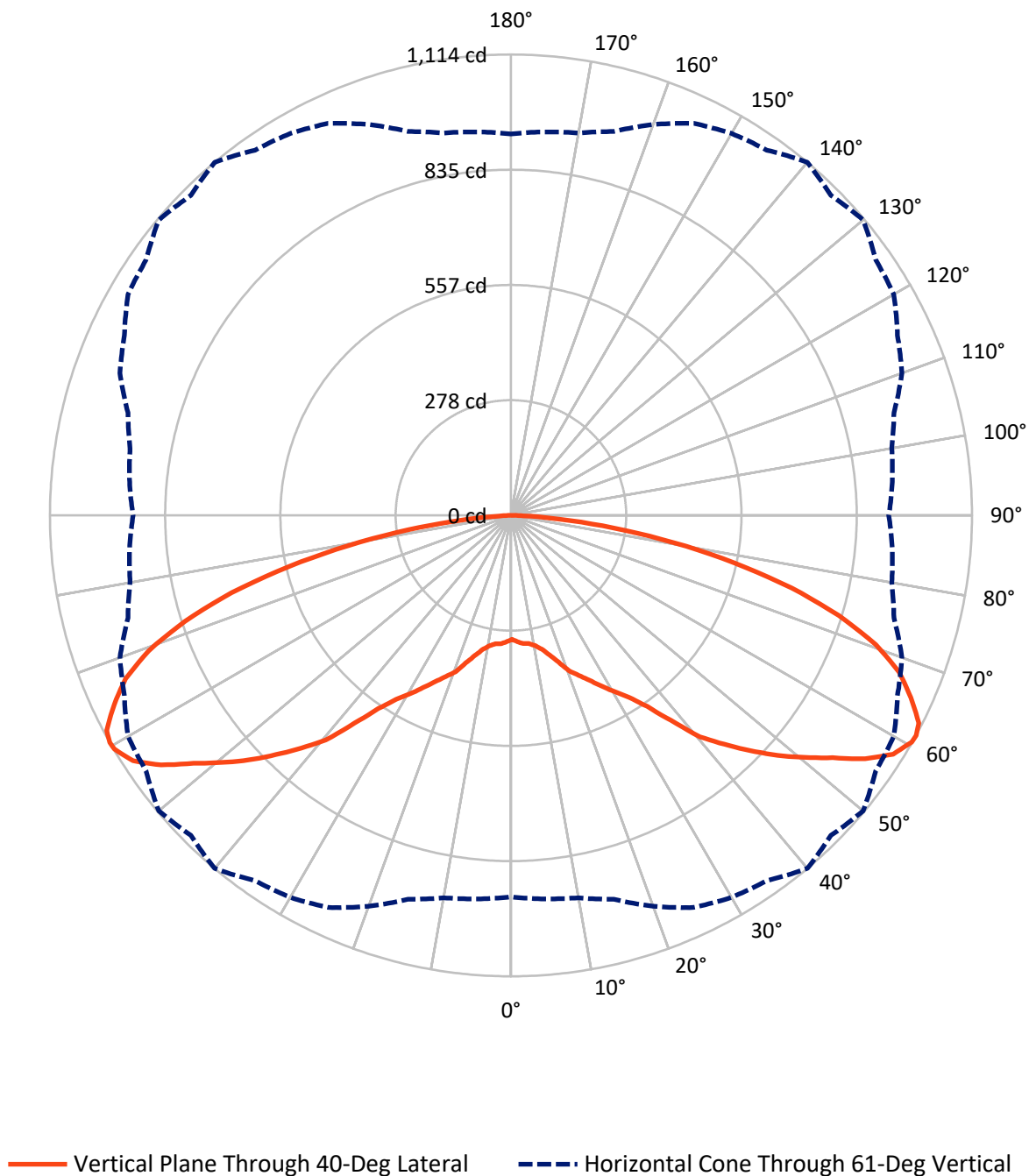


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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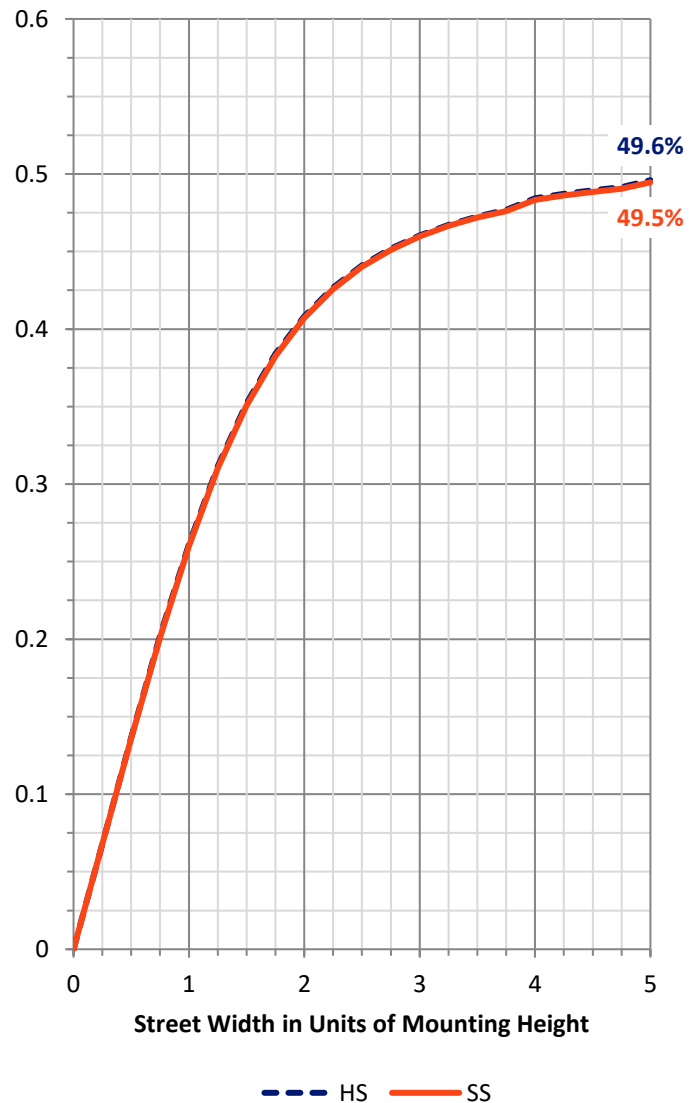
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.6	0.0	1947.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1947.6	0.0	1947.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3895.2	0.0	3895.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.8
10°-20°	100.7	2.6
20°-30°	204.2	5.2
30°-40°	355.2	9.1
40°-50°	598.0	15.4
50°-60°	861.5	22.1
60°-70°	955.9	24.5
70°-80°	649.2	16.7
80°-90°	140.6	3.6
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°	3895.2	100.0
0°-180°	3895.2	100.0

Coefficient of Utilization



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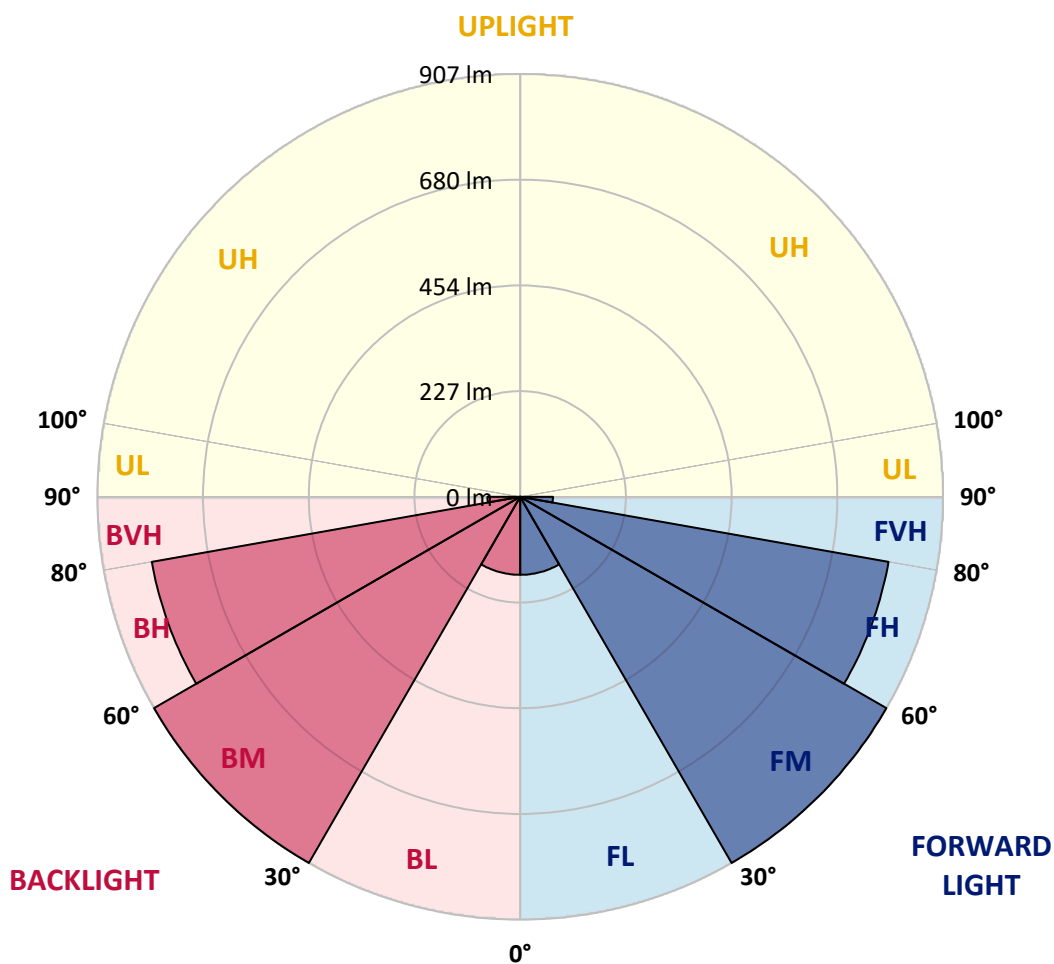
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.4	4.3			
FM	(30°-60°)	907.3	23.3			
FH	(60°-80°)	802.6	20.6			G1/1800
FVH	(80°-90°)	70.3	1.8			G1/100
BL	(0°-30°)	167.4	4.3	B1/500		
BM	(30°-60°)	907.3	23.3	B1/1000		
BH	(60°-80°)	802.6	20.6	B2/1000		G1/1800
BVH	(80°-90°)	70.3	1.8			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°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3
2.5°	306.3	306.3	306.3	306.3	306.3	305.6	306.3	305.6	305.6	305.6	305.6
5°	308.7	309.5	309.5	309.5	309.5	310.3	310.3	311.1	311.1	311.1	311.1
7.5°	311.1	311.1	311.1	311.1	311.1	311.1	311.9	311.9	312.6	312.6	313.4
10°	320.5	320.5	321.3	321.3	320.5	320.5	320.5	319.7	319.7	318.9	318.9
12.5°	333.9	333.9	334.7	335.5	335.5	334.7	333.9	332.3	331.5	331.5	331.5
15°	344.1	344.9	346.5	348.1	348.9	348.9	349.7	349.7	349.7	348.9	348.1
17.5°	363.8	363.8	364.6	365.4	365.4	366.2	367.8	369.3	372.5	373.3	370.9
20°	392.2	393.0	395.3	394.5	394.5	396.1	397.7	398.5	400.8	402.4	402.4
22.5°	413.4	415.0	418.2	418.2	417.4	418.2	419.7	419.7	419.7	419.0	420.5
25°	430.0	431.6	433.9	433.9	435.5	439.4	444.2	443.4	441.0	441.0	440.2
27.5°	452.0	452.8	454.4	454.4	456.8	459.1	462.3	465.4	467.0	466.2	464.6
30°	479.6	481.2	482.7	480.4	484.3	486.7	488.3	488.3	494.6	497.7	492.2
32.5°	500.1	503.2	506.4	508.7	516.6	520.5	518.2	520.5	523.7	526.8	526.8
35°	533.9	537.1	539.4	541.0	548.9	554.4	560.7	567.0	566.2	563.9	568.6
37.5°	582.8	585.9	588.3	591.4	601.7	605.6	610.3	623.7	628.4	622.1	625.3
40°	634.7	640.2	648.1	657.6	672.5	677.3	685.1	694.6	703.2	706.4	698.5
42.5°	679.6	685.9	687.5	702.5	720.6	734.7	745.8	748.1	756.0	763.1	757.6
45°	727.7	733.2	737.1	749.7	759.9	779.6	797.7	806.4	810.3	809.6	815.9
47.5°	772.5	778.8	784.4	797.7	810.3	826.9	838.7	859.2	866.3	856.8	867.0
50°	800.1	808.0	815.1	840.3	862.3	879.6	889.1	906.4	919.0	912.7	915.1
52.5°	845.8	848.9	854.4	868.6	897.8	937.9	947.4	956.8	972.6	980.4	966.3
55°	904.1	912.7	920.6	938.7	953.7	983.6	1026.9	1038.7	1037.9	1062.3	1040.3
57.5°	916.7	929.3	945.0	978.1	1007.2	1024.5	1052.1	1085.2	1088.3	1089.9	1093.1
60°	918.2	926.1	936.3	963.9	1015.1	1046.6	1062.3	1083.6	1112.0	1091.5	1112.7
61°	921.4	930.0	937.9	960.0	1004.9	1045.0	1065.5	1077.3	1113.5	1093.1	1110.4
62.5°	915.9	926.1	937.9	959.2	989.1	1030.1	1069.4	1069.4	1105.7	1092.3	1101.7
65°	882.8	892.2	915.1	942.6	978.9	1000.1	1041.1	1067.1	1061.6	1085.2	1061.6
67.5°	826.9	834.8	854.4	886.7	926.1	956.0	974.9	1016.7	1011.2	1035.6	1008.8
70°	748.1	758.4	782.8	804.8	841.8	873.3	898.5	923.7	934.8	932.4	934.0
72.5°	653.6	660.7	682.8	707.2	736.3	771.8	794.6	810.3	827.7	826.9	830.0
75°	544.2	550.5	569.4	587.5	615.8	643.4	669.4	685.9	700.1	699.3	696.2
77.5°	419.7	426.8	448.1	463.8	477.2	507.9	527.6	538.7	550.5	550.5	552.0
80°	293.0	297.7	314.2	330.8	343.4	358.3	383.5	385.9	399.3	396.1	399.3
82.5°	176.4	179.6	192.2	201.6	210.3	224.4	236.3	241.0	248.9	245.7	250.4
85°	79.5	81.1	89.0	94.5	98.4	106.3	112.6	115.0	118.9	118.1	121.3
87.5°	16.5	18.1	20.5	22.1	22.8	26.0	28.4	28.4	29.9	29.9	30.7
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°	299.3	299.3	299.3	299.3	299.3	299.3	299.3	299.3
2.5°	305.6	306.3	305.6	305.6	305.6	306.3	305.6	306.3
5°	311.1	311.1	311.1	310.3	309.5	309.5	309.5	308.7
7.5°	314.2	314.2	313.4	312.6	311.9	312.6	312.6	312.6
10°	320.5	322.1	322.9	322.9	322.1	322.1	322.1	321.3
12.5°	331.5	332.3	334.7	335.5	336.3	335.5	333.1	332.3
15°	346.5	346.5	347.3	348.9	348.9	345.7	343.4	342.6
17.5°	367.8	367.0	365.4	365.4	366.2	364.6	362.3	362.3
20°	400.1	396.9	395.3	393.0	395.3	395.3	390.6	388.2
22.5°	422.9	419.7	415.8	413.4	416.6	419.0	413.4	410.3
25°	442.6	443.4	437.1	433.9	434.7	436.3	429.2	428.4
27.5°	463.1	464.6	461.5	456.0	454.4	457.5	452.0	450.5
30°	488.3	487.5	489.0	482.0	478.8	481.2	480.4	476.4
32.5°	521.3	517.4	519.0	512.7	506.4	506.4	501.6	496.9
35°	567.0	558.3	554.4	550.5	538.7	539.4	535.5	531.6
37.5°	626.9	613.5	602.4	604.8	587.5	585.9	583.5	578.0
40°	695.4	689.1	676.5	669.4	651.3	642.6	639.5	629.2
42.5°	746.6	748.1	729.2	716.6	702.5	687.5	685.9	675.7
45°	801.7	796.2	778.8	758.4	752.1	734.0	731.6	721.4
47.5°	856.8	837.9	827.7	806.4	796.2	773.3	774.9	765.5
50°	908.8	886.7	877.3	852.1	836.3	813.5	808.0	792.2
52.5°	963.9	943.4	928.5	896.2	873.3	856.0	846.6	840.3
55°	1037.9	1017.5	983.6	953.7	934.8	906.4	903.3	892.2
57.5°	1072.6	1057.6	1020.6	999.3	965.5	936.3	926.9	904.8
60°	1076.5	1070.2	1030.8	1010.4	960.8	937.1	925.3	911.9
61°	1075.7	1067.9	1030.1	1004.9	957.6	934.0	924.5	912.7
62.5°	1072.6	1063.1	1021.4	995.4	951.3	928.5	920.6	903.3
65°	1062.3	1036.4	1000.1	976.5	928.5	908.0	889.1	871.8
67.5°	1017.5	968.6	953.7	923.7	874.9	852.1	834.8	819.8
70°	921.4	889.1	873.3	836.3	797.0	778.1	758.4	739.5
72.5°	808.8	787.5	774.1	729.2	700.1	681.2	663.1	645.0
75°	682.8	667.0	642.6	608.7	582.8	563.9	547.3	538.7
77.5°	536.3	526.1	507.2	473.3	459.1	442.6	426.0	412.7
80°	385.9	378.0	363.0	338.6	326.8	310.3	298.5	287.4
82.5°	240.2	233.9	225.2	207.1	202.4	192.2	181.1	173.3
85°	115.0	111.0	107.9	96.1	95.3	86.6	82.7	78.0
87.5°	29.9	29.1	27.6	23.6	22.8	20.5	18.9	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)