

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: P197851

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197851
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3985.6 lumens
Efficiency: N/A
Efficacy: 117.2 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

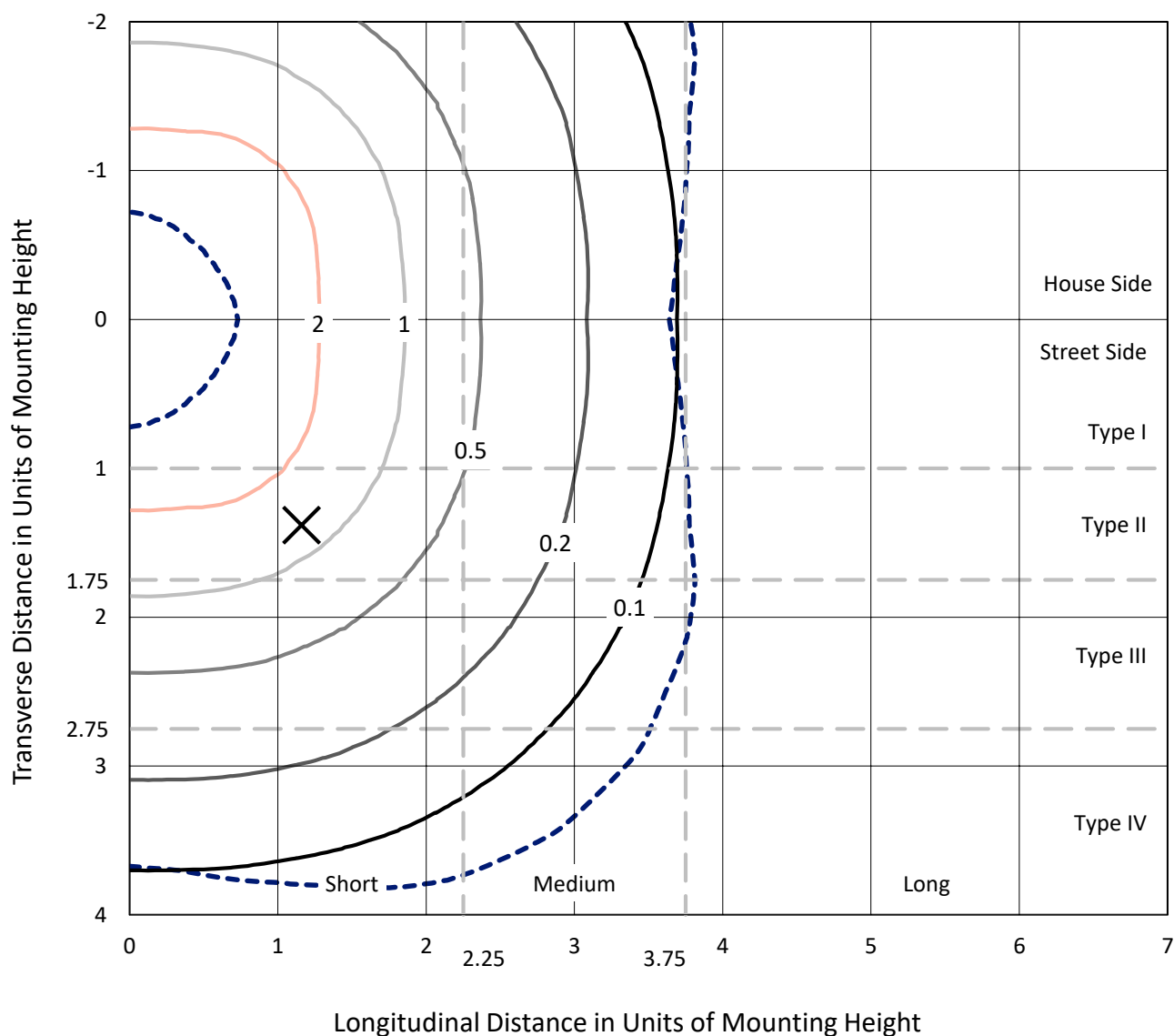


REPORT NUMBER: P197851

CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

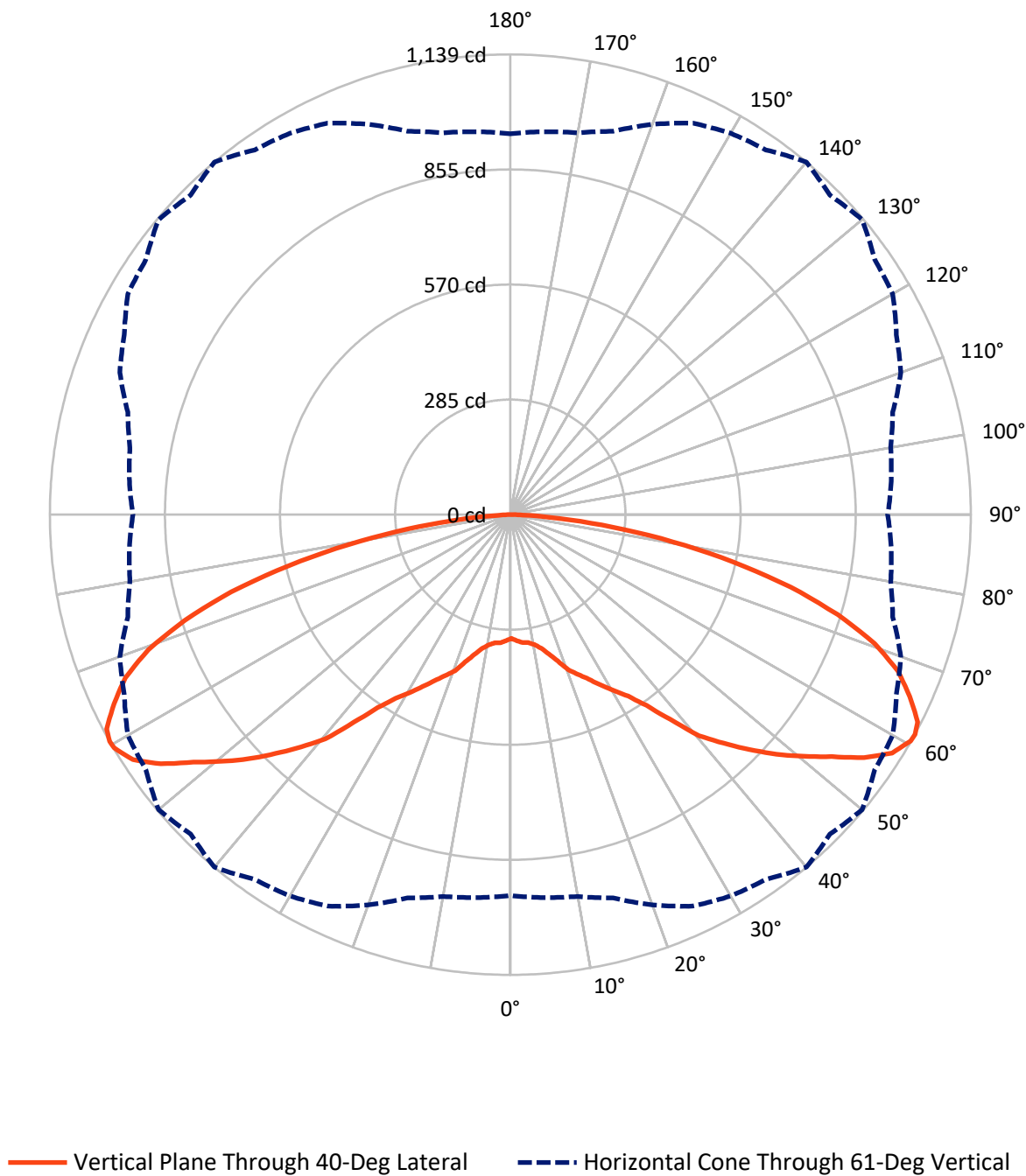


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197851

CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197851

CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

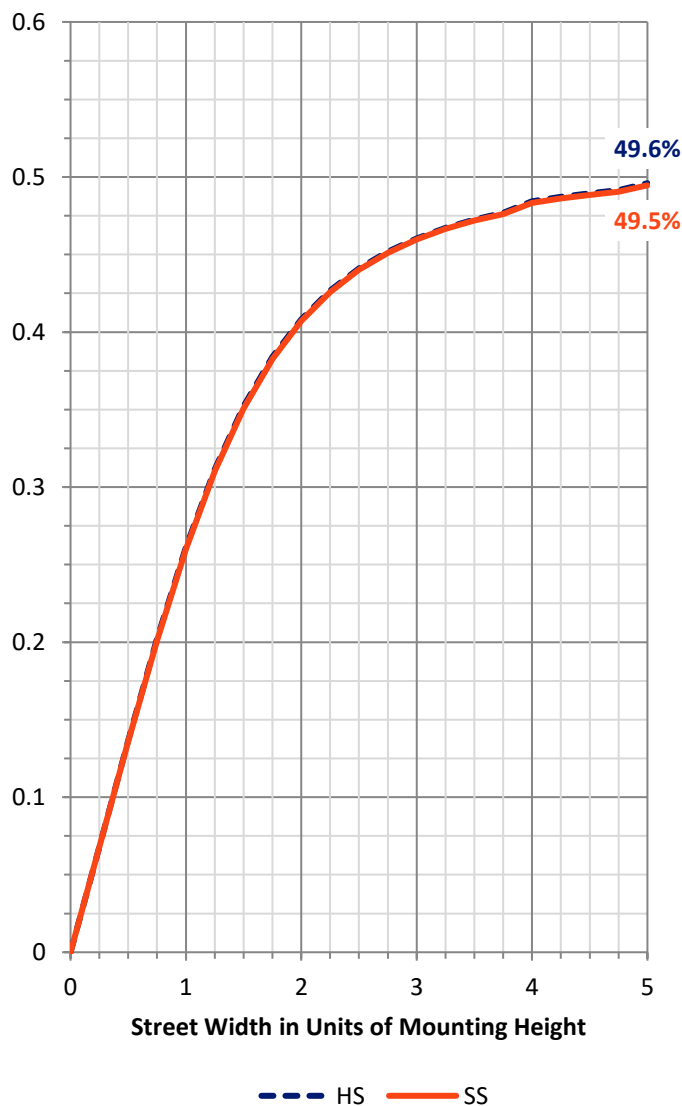
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1992.8	0.0	1992.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1992.8	0.0	1992.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	3985.6	0.0	3985.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	0.8
10°-20°	103.0	2.6
20°-30°	209.0	5.2
30°-40°	363.5	9.1
40°-50°	611.8	15.4
50°-60°	881.5	22.1
60°-70°	978.1	24.5
70°-80°	664.3	16.7
80°-90°	143.9	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°	3985.6	100.0
0°-180°	3985.6	100.0

Coefficient of Utilization



REPORT NUMBER: P197851

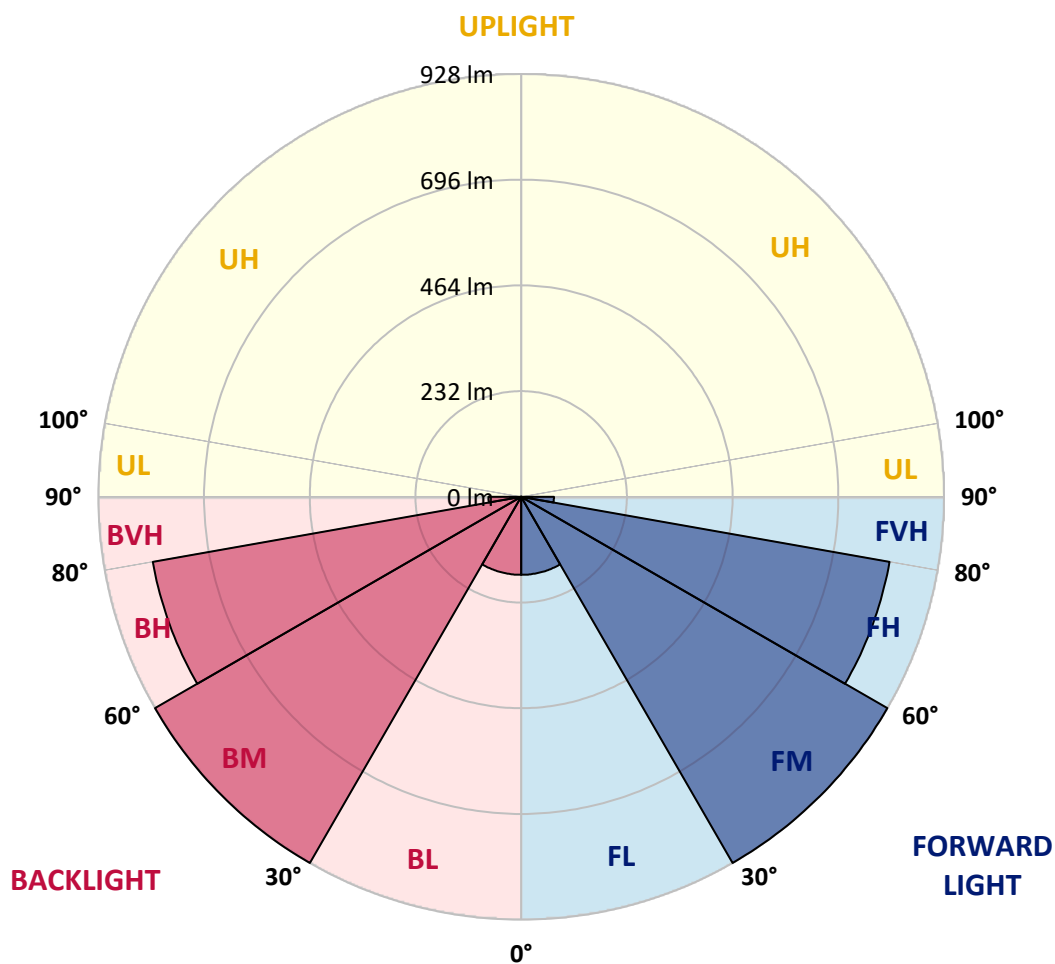
CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.3	4.3			
FM	(30°-60°)	928.4	23.3			
FH	(60°-80°)	821.2	20.6			G1/1800
FVH	(80°-90°)	71.9	1.8			G1/100
BL	(0°-30°)	171.3	4.3	B1/500		
BM	(30°-60°)	928.4	23.3	B1/1000		
BH	(60°-80°)	821.2	20.6	B2/1000		G1/1800
BVH	(80°-90°)	71.9	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



REPORT NUMBER: P197851

CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	313.5	313.5	313.5	313.5	313.5	312.6	313.5	312.6	312.6	312.6	312.6
5°	315.9	316.7	316.7	316.7	316.7	317.5	317.5	318.3	318.3	318.3	318.3
7.5°	318.3	318.3	318.3	318.3	318.3	318.3	319.1	319.1	319.9	319.9	320.7
10°	328.0	328.0	328.8	328.8	328.0	328.0	328.0	327.1	327.1	326.3	326.3
12.5°	341.7	341.7	342.5	343.3	343.3	342.5	341.7	340.0	339.2	339.2	339.2
15°	352.1	352.9	354.5	356.2	357.0	357.0	357.8	357.8	357.8	357.0	356.2
17.5°	372.3	372.3	373.1	373.9	373.9	374.7	376.3	377.9	381.1	381.9	379.5
20°	401.3	402.1	404.5	403.7	403.7	405.3	406.9	407.7	410.1	411.8	411.8
22.5°	423.0	424.6	427.9	427.9	427.1	427.9	429.5	429.5	429.5	428.7	430.3
25°	440.0	441.6	444.0	444.0	445.6	449.6	454.5	453.7	451.2	451.2	450.4
27.5°	462.5	463.3	464.9	464.9	467.4	469.8	473.0	476.2	477.8	477.0	475.4
30°	490.7	492.3	493.9	491.5	495.6	498.0	499.6	499.6	506.0	509.3	503.6
32.5°	511.7	514.9	518.1	520.5	528.6	532.6	530.2	532.6	535.8	539.1	539.1
35°	546.3	549.5	552.0	553.6	561.6	567.3	573.7	580.2	579.4	576.9	581.8
37.5°	596.3	599.5	601.9	605.1	615.6	619.6	624.5	638.2	643.0	636.6	639.8
40°	649.5	655.1	663.2	672.8	688.1	693.0	701.0	710.7	719.6	722.8	714.7
42.5°	695.4	701.8	703.4	718.8	737.3	751.8	763.1	765.5	773.6	780.8	775.2
45°	744.5	750.2	754.2	767.1	777.6	797.7	816.3	825.1	829.2	828.3	834.8
47.5°	790.5	796.9	802.6	816.3	829.2	846.1	858.2	879.1	886.4	876.7	887.2
50°	818.7	826.7	834.0	859.8	882.3	900.1	909.7	927.5	940.4	933.9	936.3
52.5°	865.4	868.6	874.3	888.8	918.6	959.7	969.4	979.0	995.1	1003.2	988.7
55°	925.0	933.9	942.0	960.5	975.8	1006.4	1050.7	1062.8	1062.0	1087.0	1064.4
57.5°	937.9	950.8	966.9	1000.8	1030.6	1048.3	1076.5	1110.4	1113.6	1115.2	1118.4
60°	939.5	947.6	958.1	986.3	1038.7	1070.9	1087.0	1108.8	1137.8	1116.8	1138.6
61°	942.8	951.6	959.7	982.3	1028.2	1069.3	1090.2	1102.3	1139.4	1118.4	1136.2
62.5°	937.1	947.6	959.7	981.4	1012.1	1054.0	1094.3	1094.3	1131.3	1117.6	1127.3
65°	903.3	913.0	936.3	964.5	1001.6	1023.3	1065.2	1091.8	1086.2	1110.4	1086.2
67.5°	846.1	854.1	874.3	907.3	947.6	978.2	997.6	1040.3	1034.6	1059.6	1032.2
70°	765.5	776.0	800.9	823.5	861.4	893.6	919.4	945.2	956.5	954.0	955.7
72.5°	668.8	676.1	698.6	723.6	753.4	789.7	813.0	829.2	846.9	846.1	849.3
75°	556.8	563.2	582.6	601.1	630.1	658.3	684.9	701.8	716.3	715.5	712.3
77.5°	429.5	436.7	458.5	474.6	488.3	519.7	539.9	551.2	563.2	563.2	564.9
80°	299.8	304.6	321.5	338.4	351.3	366.6	392.4	394.8	408.5	405.3	408.5
82.5°	180.5	183.7	196.6	206.3	215.1	229.6	241.7	246.6	254.6	251.4	256.2
85°	81.4	83.0	91.1	96.7	100.7	108.8	115.2	117.6	121.7	120.9	124.1
87.5°	16.9	18.5	21.0	22.6	23.4	26.6	29.0	29.0	30.6	30.6	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P197851

CATALOG NUMBER: TT-C2-LED-E1-WQ-CG-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	306.2	306.2	306.2	306.2	306.2	306.2	306.2	306.2
2.5°	312.6	313.5	312.6	312.6	312.6	313.5	312.6	313.5
5°	318.3	318.3	318.3	317.5	316.7	316.7	316.7	315.9
7.5°	321.5	321.5	320.7	319.9	319.1	319.9	319.9	319.9
10°	328.0	329.6	330.4	330.4	329.6	329.6	329.6	328.8
12.5°	339.2	340.0	342.5	343.3	344.1	343.3	340.8	340.0
15°	354.5	354.5	355.4	357.0	357.0	353.7	351.3	350.5
17.5°	376.3	375.5	373.9	373.9	374.7	373.1	370.7	370.7
20°	409.3	406.1	404.5	402.1	404.5	404.5	399.7	397.3
22.5°	432.7	429.5	425.5	423.0	426.3	428.7	423.0	419.8
25°	452.9	453.7	447.2	444.0	444.8	446.4	439.2	438.3
27.5°	473.8	475.4	472.2	466.5	464.9	468.2	462.5	460.9
30°	499.6	498.8	500.4	493.1	489.9	492.3	491.5	487.5
32.5°	533.4	529.4	531.0	524.6	518.1	518.1	513.3	508.4
35°	580.2	571.3	567.3	563.2	551.2	552.0	547.9	543.9
37.5°	641.4	627.7	616.4	618.8	601.1	599.5	597.1	591.4
40°	711.5	705.1	692.2	684.9	666.4	657.5	654.3	643.8
42.5°	763.9	765.5	746.2	733.3	718.8	703.4	701.8	691.4
45°	820.3	814.6	796.9	776.0	769.5	751.0	748.6	738.1
47.5°	876.7	857.4	846.9	825.1	814.6	791.3	792.9	783.2
50°	929.9	907.3	897.6	871.9	855.7	832.4	826.7	810.6
52.5°	986.3	965.3	950.0	917.0	893.6	875.9	866.2	859.8
55°	1062.0	1041.1	1006.4	975.8	956.5	927.5	924.2	913.0
57.5°	1097.5	1082.2	1044.3	1022.5	987.9	958.1	948.4	925.8
60°	1101.5	1095.1	1054.8	1033.8	983.1	958.9	946.8	933.1
61°	1100.7	1092.6	1054.0	1028.2	979.8	955.7	946.0	933.9
62.5°	1097.5	1087.8	1045.1	1018.5	973.4	950.0	942.0	924.2
65°	1087.0	1060.4	1023.3	999.2	950.0	929.1	909.7	892.0
67.5°	1041.1	991.1	975.8	945.2	895.2	871.9	854.1	838.8
70°	942.8	909.7	893.6	855.7	815.5	796.1	776.0	756.6
72.5°	827.5	805.8	792.1	746.2	716.3	697.0	678.5	659.9
75°	698.6	682.5	657.5	622.9	596.3	576.9	560.0	551.2
77.5°	548.7	538.3	518.9	484.3	469.8	452.9	435.9	422.2
80°	394.8	386.8	371.5	346.5	334.4	317.5	305.4	294.1
82.5°	245.8	239.3	230.5	211.9	207.1	196.6	185.3	177.3
85°	117.6	113.6	110.4	98.3	97.5	88.6	84.6	79.8
87.5°	30.6	29.8	28.2	24.2	23.4	21.0	19.3	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)