

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: P197896

Luminaire Tested: **TT-C1-LED-E1-WQ-SG-MS/DIM-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
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-WQ-SG-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3101.4 lumens
Efficiency: N/A
Efficacy: 110.8 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

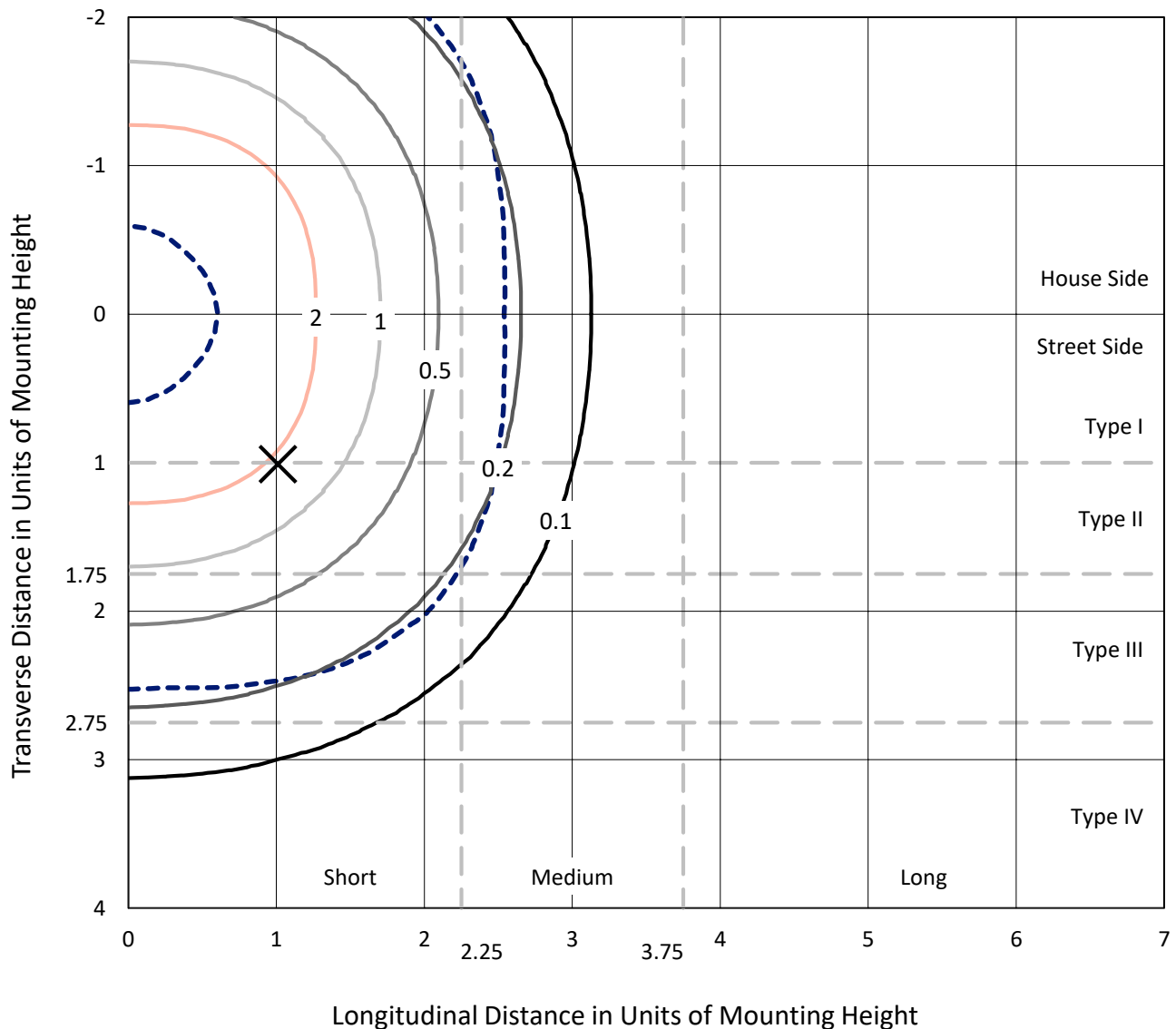


REPORT NUMBER: P197896

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

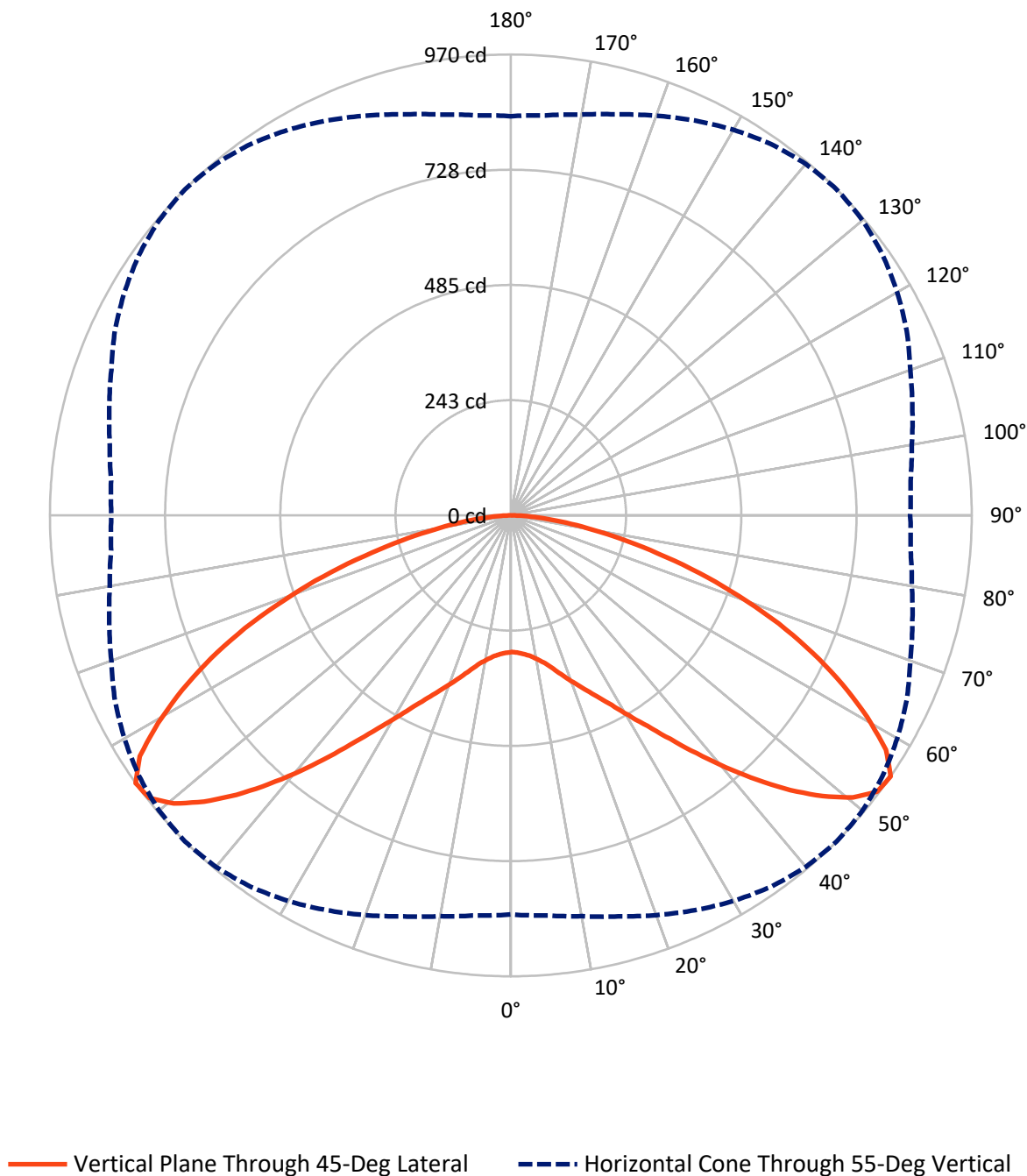


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P197896

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197896

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

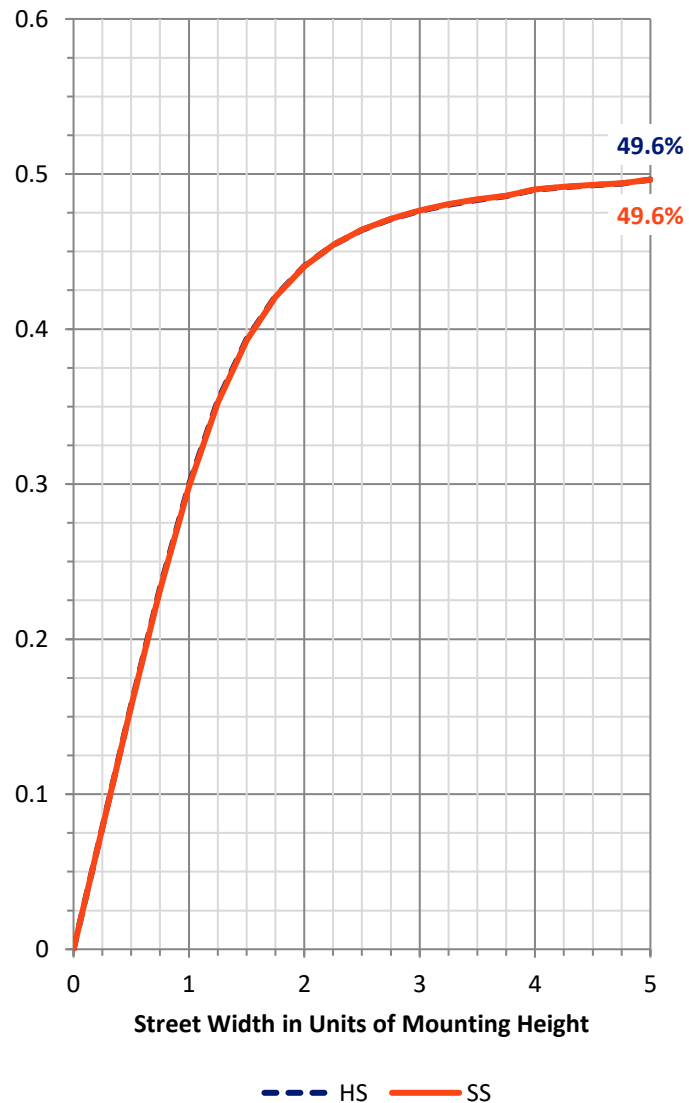
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1550.7	0.0	1550.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1550.7	0.0	1550.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3101.4	0.0	3101.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	0.9
10°-20°	96.3	3.1
20°-30°	196.1	6.3
30°-40°	358.0	11.5
40°-50°	607.9	19.6
50°-60°	791.7	25.5
60°-70°	640.3	20.6
70°-80°	314.6	10.1
80°-90°	68.1	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°	3101.4	100.0
0°-180°	3101.4	100.0

Coefficient of Utilization



REPORT NUMBER: P197896

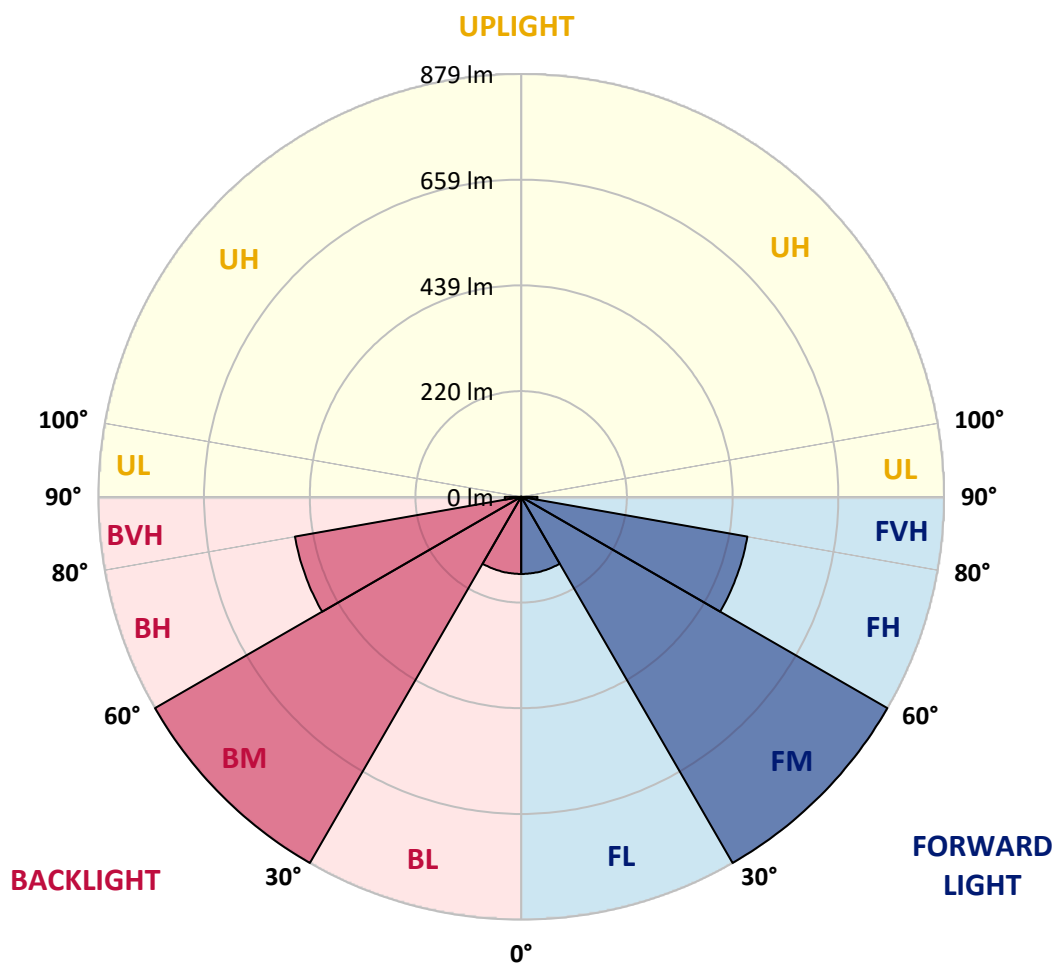
CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.4	5.2			
FM	(30°-60°)	878.8	28.3			
FH	(60°-80°)	477.5	15.4			G0/660
FVH	(80°-90°)	34.1	1.1			G1/100
BL	(0°-30°)	160.4	5.2	B1/500		
BM	(30°-60°)	878.8	28.3	B1/1000		
BH	(60°-80°)	477.5	15.4	B1/500		G0/660
BVH	(80°-90°)	34.1	1.1			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



REPORT NUMBER: P197896

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	288.6	288.6	288.6	288.6	288.6	288.6	289.3	289.3	289.3	289.3	289.3
5°	292.4	292.4	292.4	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
7.5°	298.2	297.5	298.2	298.2	298.2	298.8	298.8	298.2	298.8	298.8	298.8
10°	306.4	305.7	306.4	306.4	306.4	307.0	307.0	307.0	307.0	307.7	307.7
12.5°	318.5	317.8	318.5	319.1	318.5	319.1	319.1	319.1	319.1	319.1	319.1
15°	333.7	333.1	333.7	334.3	333.7	334.9	334.9	334.3	334.3	334.9	334.9
17.5°	352.1	350.8	351.4	352.1	352.1	353.4	353.4	352.7	353.4	354.0	353.4
20°	371.1	369.9	370.5	372.4	372.4	373.0	374.3	373.7	374.3	374.9	374.3
22.5°	392.0	391.4	392.0	393.9	393.9	394.6	396.5	396.5	396.5	397.1	396.5
25°	414.9	414.2	414.9	416.8	416.8	418.1	420.6	420.6	421.2	421.9	421.2
27.5°	441.6	440.9	442.1	444.1	444.7	446.6	449.8	450.4	451.0	451.7	450.4
30°	472.6	471.3	473.2	476.4	477.7	480.2	484.1	485.3	485.9	487.8	486.6
32.5°	508.1	506.9	509.4	513.2	515.1	518.9	524.0	525.3	527.1	528.4	526.6
35°	550.0	549.4	551.9	557.6	560.8	565.2	572.2	574.1	575.4	577.9	575.4
37.5°	596.3	595.7	600.1	606.5	612.2	619.1	626.7	629.9	631.9	635.0	631.9
40°	647.7	647.1	652.8	660.4	667.4	676.2	685.8	690.2	694.0	697.2	693.4
42.5°	700.4	700.4	707.3	715.6	725.8	736.5	747.3	752.4	758.7	760.6	756.2
45°	751.1	751.7	758.7	768.8	783.4	797.4	809.5	815.8	822.8	824.7	819.0
47.5°	799.3	800.0	806.3	819.6	836.1	852.0	866.6	875.5	882.4	883.0	878.6
50°	838.7	841.2	849.4	861.5	878.6	895.1	912.9	924.3	931.3	933.2	928.7
52.5°	853.9	858.3	867.9	883.0	902.7	919.8	939.5	954.1	962.3	965.5	961.8
55°	839.9	845.0	856.4	873.6	895.1	916.7	937.0	954.1	965.5	970.0	966.2
57.5°	808.8	809.5	820.9	838.0	857.7	879.9	899.5	915.4	926.2	930.7	930.0
60°	754.9	754.9	765.7	782.2	797.4	820.2	836.8	848.8	856.4	861.5	860.2
62.5°	682.6	682.6	692.1	709.2	724.5	744.1	760.0	772.7	777.7	783.4	784.7
65°	602.0	602.0	610.9	628.0	642.0	659.8	675.0	687.0	692.1	699.1	697.8
67.5°	516.4	515.8	524.0	538.6	551.9	568.4	583.0	594.4	600.1	608.4	602.7
70°	428.2	428.2	435.2	446.6	456.1	472.6	486.6	498.0	502.4	509.4	506.2
72.5°	344.5	343.8	349.5	358.4	366.0	380.6	388.9	401.6	405.3	414.9	409.8
75°	269.0	267.7	272.1	278.5	283.6	293.1	299.5	309.6	312.8	319.1	316.6
77.5°	202.4	201.7	203.6	208.1	211.9	219.5	222.0	227.1	229.6	236.0	230.9
80°	145.3	143.4	145.3	147.8	149.1	154.8	155.4	157.4	158.6	163.1	157.9
82.5°	97.7	95.2	96.4	98.3	98.3	101.5	102.1	101.5	104.0	105.3	102.8
85°	55.8	53.9	54.6	55.8	55.2	57.1	57.1	56.5	58.3	58.3	57.1
87.5°	18.4	17.1	17.8	18.4	18.4	19.0	19.7	19.0	20.3	20.3	19.0
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: P197896

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-MS/DIM-7060

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	289.3	289.3	289.3	289.3	289.3	289.3	289.3	289.3
5°	293.1	293.1	293.1	293.1	293.1	292.4	292.4	292.4
7.5°	298.8	298.8	298.8	298.8	298.8	298.2	298.2	298.2
10°	307.7	307.0	307.0	307.0	307.0	306.4	307.0	306.4
12.5°	319.1	319.7	319.7	319.1	319.7	318.5	318.5	318.5
15°	334.9	334.3	334.3	334.3	334.3	333.7	333.7	333.7
17.5°	352.7	352.7	352.1	352.1	351.4	350.8	350.8	350.8
20°	373.7	373.0	372.4	371.7	371.1	369.9	369.2	369.2
22.5°	395.2	394.6	393.9	393.3	392.7	391.4	390.2	390.2
25°	419.3	418.1	417.4	416.2	414.9	413.6	413.0	412.4
27.5°	448.5	447.3	445.3	443.4	440.9	440.3	439.0	439.0
30°	483.4	481.5	478.9	475.8	473.2	470.7	469.5	468.8
32.5°	524.0	521.5	517.0	513.2	508.8	506.2	504.4	503.1
35°	571.6	567.8	562.7	557.0	551.3	546.9	543.7	543.7
37.5°	627.4	621.7	614.1	607.1	598.8	593.8	590.0	587.4
40°	688.3	680.1	670.5	661.6	652.2	645.2	639.5	640.1
42.5°	748.6	741.6	730.2	719.4	707.3	697.8	690.8	690.2
45°	812.0	803.1	789.2	775.2	761.3	749.8	741.6	740.3
47.5°	871.0	861.5	845.0	827.9	812.6	800.0	791.1	789.8
50°	919.3	907.8	890.7	872.3	855.8	841.8	832.3	829.8
52.5°	950.3	937.6	919.3	897.0	879.3	863.4	852.0	848.8
55°	955.4	938.9	919.3	894.5	874.8	857.0	844.4	840.5
57.5°	920.5	902.7	885.0	863.4	843.7	824.7	814.5	809.5
60°	852.6	838.7	824.1	804.4	788.6	770.8	762.5	760.0
62.5°	774.6	762.5	749.2	728.9	715.6	699.7	692.1	689.0
65°	690.8	676.9	664.2	647.7	633.1	619.8	609.0	607.7
67.5°	598.2	583.7	572.8	558.3	543.7	531.0	524.0	520.2
70°	500.5	488.5	477.7	461.8	452.3	440.3	435.2	431.4
72.5°	403.5	396.5	383.2	373.0	362.3	352.7	349.5	345.7
75°	312.1	303.9	293.7	287.4	279.1	274.1	271.5	269.0
77.5°	229.0	222.0	216.3	213.8	210.0	204.9	203.0	201.1
80°	158.6	155.4	151.6	151.0	148.5	144.6	144.0	143.4
82.5°	102.8	100.9	99.6	99.6	98.3	95.8	95.2	95.2
85°	57.1	56.5	57.1	56.5	55.2	53.9	53.9	53.9
87.5°	19.0	19.0	19.7	20.3	18.4	18.4	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)