

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: P197727

Luminaire Tested: **TT-C1-LED-E1-WQ-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3135.3 lumens
Efficiency: N/A
Efficacy: 112.0 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): 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



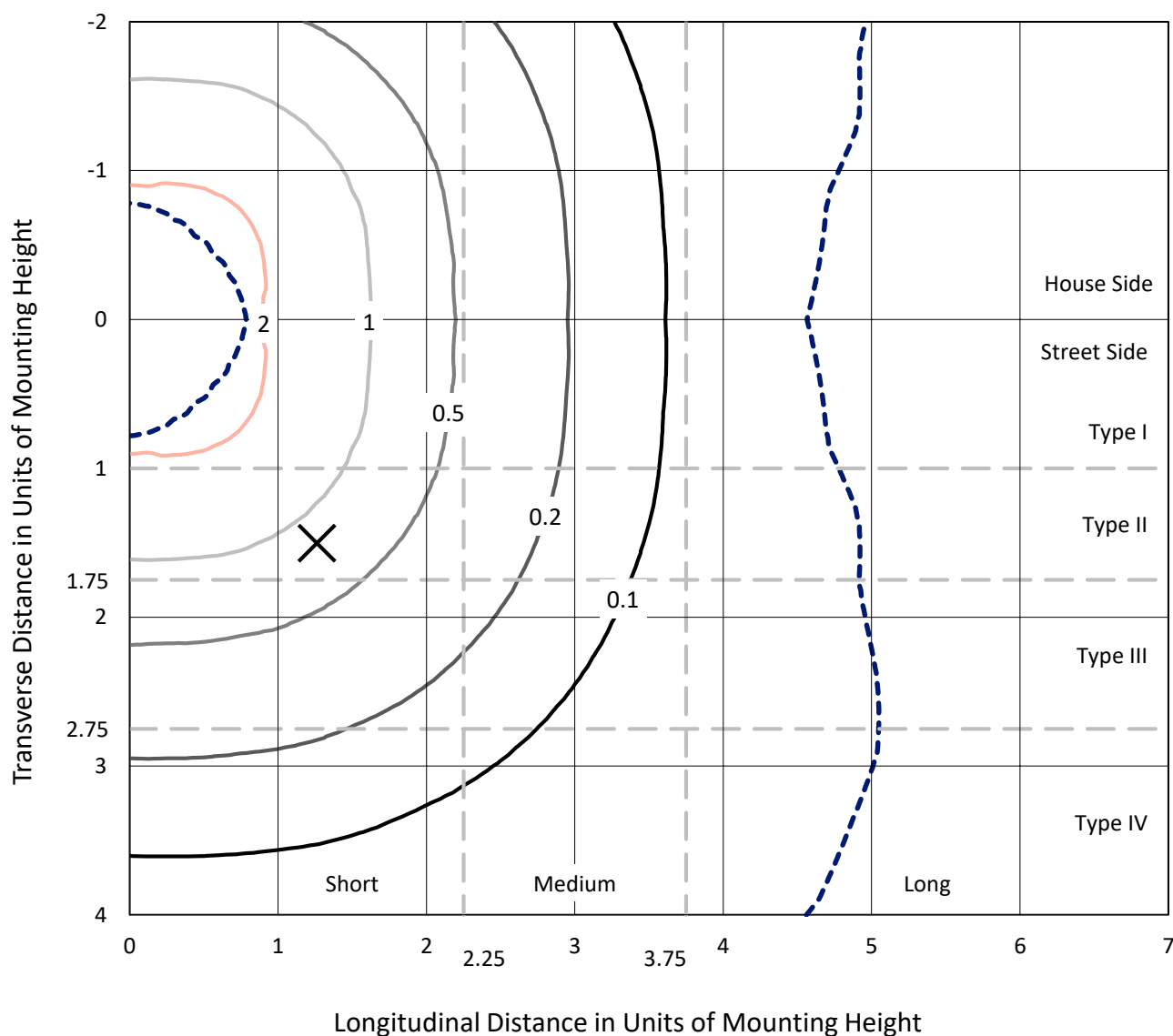
REPORT NUMBER: P197727

CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

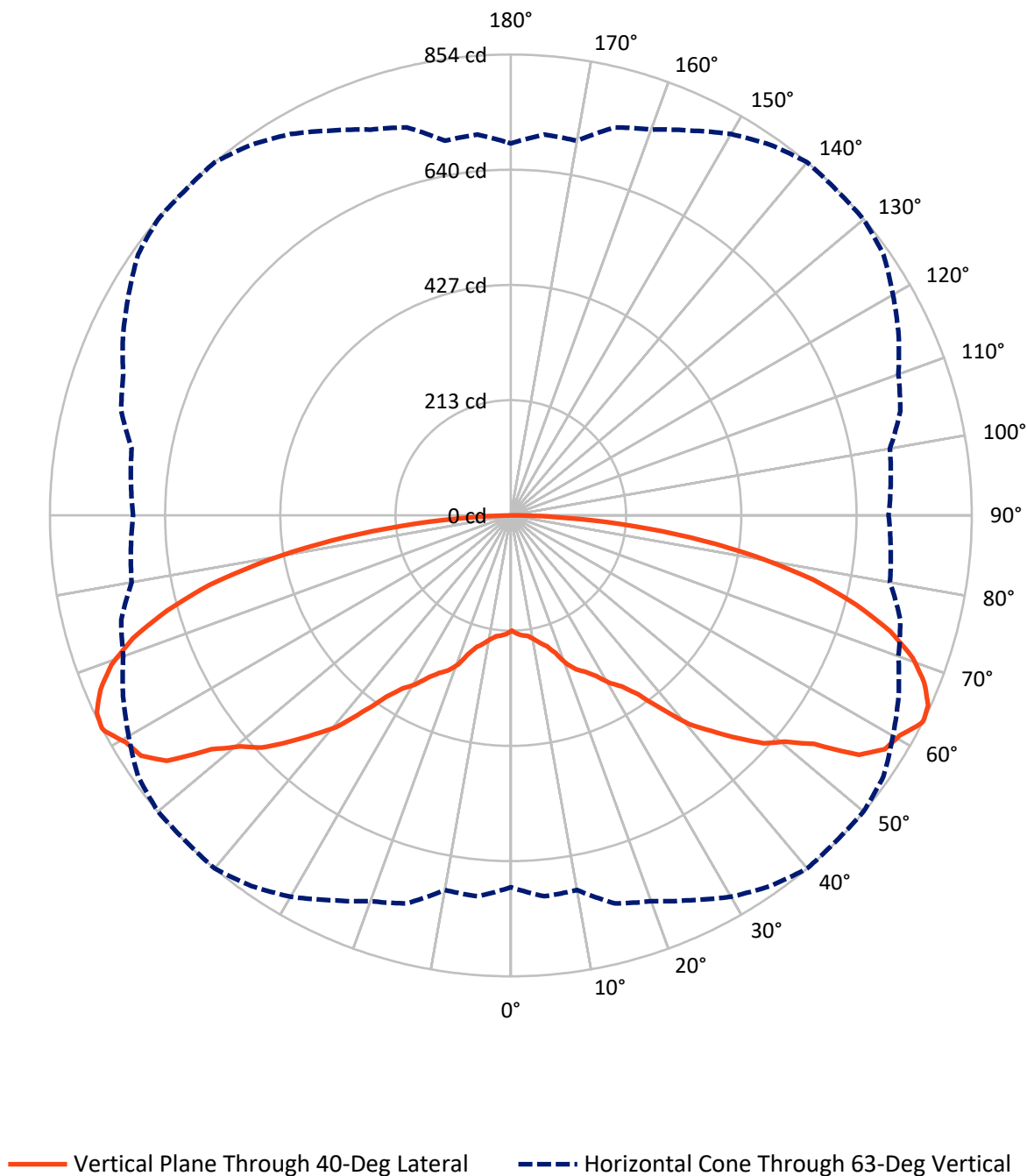


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197727

CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P197727

CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

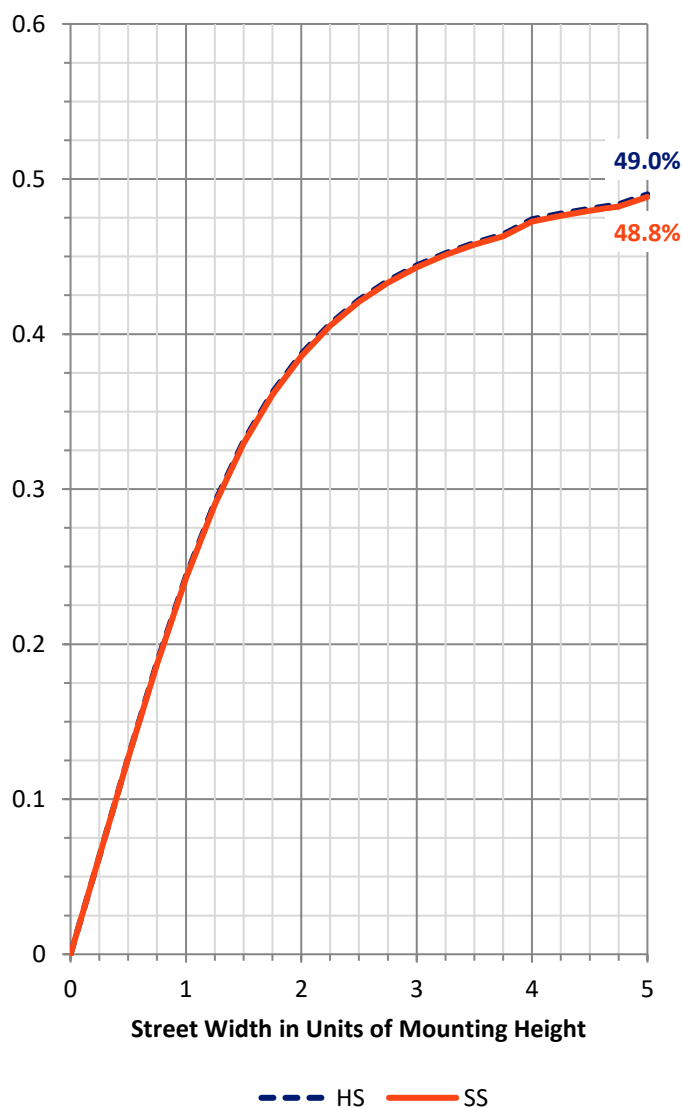
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1567.7	0.0	1567.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1567.7	0.0	1567.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3135.3	0.0	3135.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	0.7
10°-20°	73.2	2.3
20°-30°	148.9	4.7
30°-40°	256.7	8.2
40°-50°	432.3	13.8
50°-60°	636.6	20.3
60°-70°	757.1	24.1
70°-80°	612.9	19.5
80°-90°	196.1	6.3
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°	3135.3	100.0
0°-180°	3135.3	100.0

Coefficient of Utilization



REPORT NUMBER: P197727

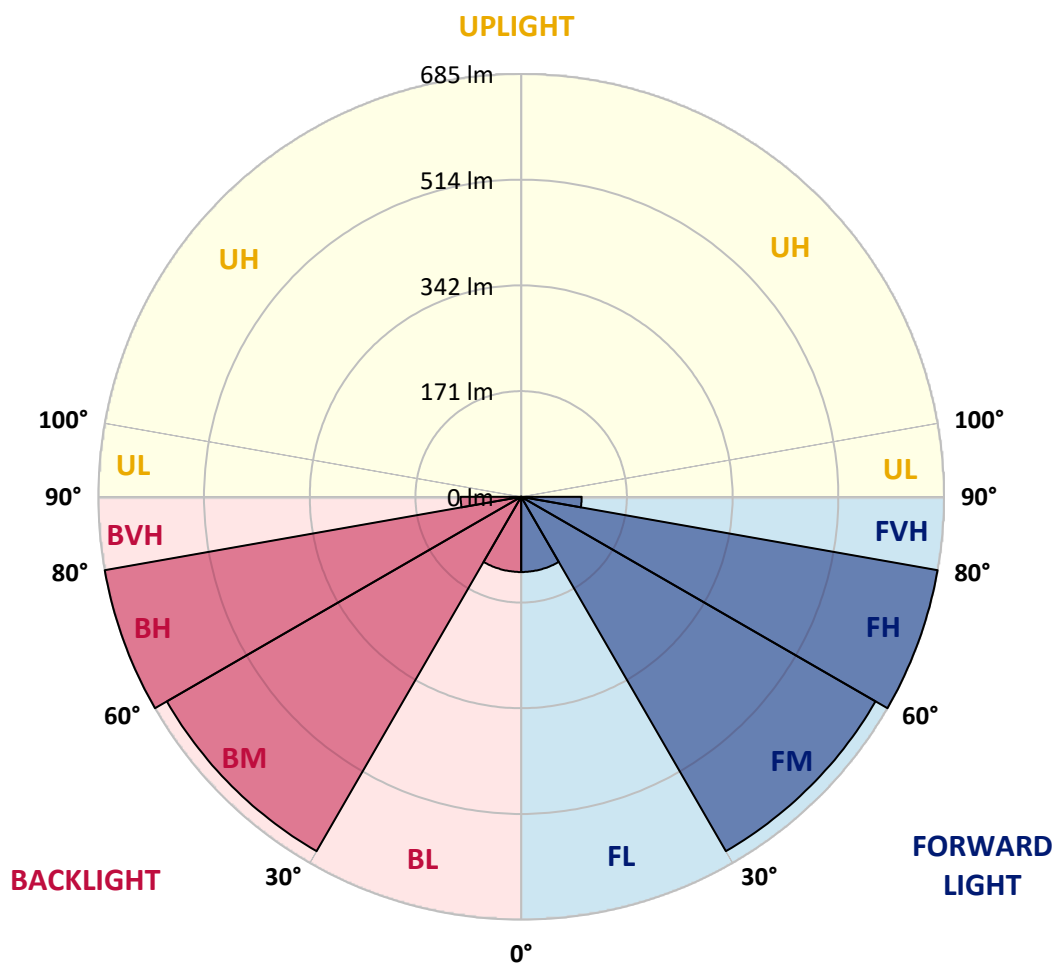
CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.9	3.9			
FM	(30°-60°)	662.8	21.1			
FH	(60°-80°)	685.0	21.8			G1/1800
FVH	(80°-90°)	98.0	3.1			G1/100
BL	(0°-30°)	121.9	3.9	B1/500		
BM	(30°-60°)	662.8	21.1	B1/1000		
BH	(60°-80°)	685.0	21.8	B2/1000		G1/1800
BVH	(80°-90°)	98.0	3.1			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



REPORT NUMBER: P197727

CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5
2.5°	220.2	220.2	220.2	220.2	220.2	220.2	219.5	220.2	219.5	219.5	219.5
5°	224.4	224.4	224.4	224.4	223.8	223.8	223.2	223.2	223.2	222.6	223.2
7.5°	226.2	226.2	226.2	226.2	225.6	225.6	225.6	225.6	225.6	225.6	225.6
10°	230.5	230.5	231.1	231.7	232.8	232.8	232.8	233.5	232.8	232.8	232.8
12.5°	239.6	239.0	240.1	241.3	242.6	243.2	243.2	243.2	242.6	242.6	243.2
15°	252.3	251.0	251.7	252.3	252.9	253.5	253.5	252.9	251.7	251.7	251.7
17.5°	268.6	266.8	266.2	265.6	265.6	266.8	268.0	267.4	268.0	267.4	268.0
20°	288.1	286.8	286.8	286.8	287.4	289.9	292.3	293.5	292.9	291.7	293.5
22.5°	300.8	301.4	304.4	303.8	303.2	305.7	308.7	311.1	309.9	308.1	309.3
25°	314.8	314.8	319.0	320.8	319.0	319.0	320.2	322.0	320.8	319.6	320.8
27.5°	330.5	330.5	332.3	334.2	333.0	333.0	334.8	337.8	337.2	336.6	337.2
30°	349.3	346.9	345.1	348.1	351.2	351.8	353.6	358.4	359.6	359.0	360.3
32.5°	366.9	363.2	364.5	366.3	372.9	375.4	374.8	378.5	377.8	376.0	378.5
35°	383.9	388.1	390.5	394.2	396.6	399.6	399.6	406.3	407.5	405.7	407.5
37.5°	416.6	418.4	425.1	425.7	428.8	440.3	441.5	450.6	455.5	453.0	453.6
40°	461.5	460.9	465.8	473.0	479.1	493.6	497.9	503.9	508.2	506.4	508.8
42.5°	497.9	493.0	496.7	512.4	519.1	530.0	535.5	538.5	546.4	544.0	547.0
45°	524.0	525.8	530.6	546.4	550.7	559.8	572.5	578.0	588.3	585.2	587.1
47.5°	549.4	557.9	562.2	569.5	582.8	594.9	610.7	616.1	630.7	629.5	627.7
50°	582.8	589.5	594.3	599.7	618.0	638.0	651.3	653.7	658.6	655.0	661.0
52.5°	618.6	618.0	622.2	637.4	662.8	670.7	682.3	693.2	703.5	707.1	703.5
55°	665.9	650.7	668.3	690.1	701.1	719.9	747.7	762.9	782.9	786.0	779.9
57.5°	685.3	685.3	703.5	716.2	736.3	769.6	799.3	806.6	816.9	811.4	817.5
60°	682.9	705.9	705.9	728.4	761.1	790.8	801.7	813.9	827.8	827.2	827.2
62.5°	685.9	708.3	702.3	741.1	761.1	785.3	809.6	832.1	851.4	850.8	850.3
63°	688.9	708.3	704.7	744.1	760.5	786.6	815.7	838.1	853.9	852.6	853.2
65°	698.0	692.6	714.4	739.2	758.0	796.9	821.1	838.7	849.7	849.1	849.1
67.5°	681.0	668.3	699.2	709.0	744.8	779.3	798.1	818.1	826.0	826.0	824.8
70°	628.9	634.3	655.6	671.3	707.7	738.6	754.4	779.9	789.6	789.6	789.0
72.5°	576.1	585.2	599.7	622.2	656.8	681.0	699.9	722.9	735.6	735.0	735.0
75°	508.8	517.3	534.3	555.5	585.8	609.5	624.6	646.5	661.0	666.5	660.4
77.5°	433.0	435.4	451.2	473.0	499.7	516.1	539.1	560.4	572.5	571.9	570.1
80°	340.8	343.9	357.2	382.0	396.6	416.0	437.3	448.8	459.1	459.1	457.9
82.5°	235.3	241.9	255.3	271.7	286.8	303.8	315.4	326.9	335.4	334.8	333.0
85°	132.8	135.8	148.6	158.9	170.4	181.3	189.2	196.5	203.8	203.8	202.6
87.5°	40.0	35.8	43.1	47.3	53.4	58.8	62.5	69.7	74.6	69.1	69.1
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: P197727

CATALOG NUMBER: TT-C1-LED-E1-WQ-LWR-LW-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5
2.5°	220.2	220.2	220.2	220.2	220.2	220.2	220.2	220.2
5°	223.2	223.8	223.8	224.4	224.4	224.4	224.4	224.4
7.5°	225.6	225.6	225.6	225.6	226.2	226.2	226.2	226.2
10°	232.8	233.5	232.8	232.8	231.7	231.1	231.1	231.1
12.5°	243.2	243.8	243.8	242.6	241.3	240.1	239.6	239.0
15°	252.9	254.7	253.5	252.9	251.7	252.3	252.3	252.9
17.5°	268.0	268.6	266.8	265.6	265.0	266.2	267.4	268.0
20°	294.1	292.9	289.3	288.1	286.8	286.8	288.1	288.1
22.5°	310.5	307.5	305.0	303.8	303.8	303.8	302.0	299.6
25°	322.0	320.2	318.4	319.6	320.8	319.0	314.8	314.1
27.5°	337.8	334.2	333.6	333.0	333.6	332.3	331.7	329.3
30°	358.4	353.6	352.4	351.2	347.5	346.2	347.5	349.3
32.5°	377.8	374.8	376.0	373.6	366.9	364.5	365.7	365.1
35°	405.7	400.2	400.2	395.4	393.6	393.0	388.1	383.9
37.5°	450.0	442.7	440.9	430.0	425.1	426.3	419.7	414.8
40°	503.9	498.5	493.6	481.5	474.9	466.4	462.1	462.1
42.5°	539.7	536.1	529.4	520.9	513.6	499.1	493.6	496.7
45°	579.2	574.3	560.4	551.9	545.2	534.9	528.8	522.7
47.5°	619.2	612.5	596.2	585.2	569.5	566.4	559.8	551.3
50°	654.4	651.9	640.4	622.2	602.2	597.4	591.3	583.4
52.5°	697.4	682.9	673.2	665.3	642.8	627.1	618.6	622.2
55°	767.8	749.6	724.7	699.9	695.0	676.2	655.0	666.5
57.5°	808.4	798.1	779.3	739.8	720.4	707.7	693.8	683.5
60°	818.1	799.3	795.1	765.3	734.4	707.7	713.2	688.9
62.5°	836.9	811.4	787.8	764.1	745.3	709.0	707.7	695.0
63°	842.9	817.5	792.6	764.1	747.1	713.2	706.5	699.9
65°	841.8	819.9	801.1	764.1	738.6	725.3	692.6	707.7
67.5°	818.7	800.5	778.7	753.2	710.8	700.5	677.4	680.4
70°	781.7	758.0	737.4	713.8	679.8	656.2	642.2	630.7
72.5°	724.1	702.9	681.0	659.2	628.9	600.4	590.6	578.0
75°	647.7	627.1	607.0	586.5	557.9	532.5	522.1	513.0
77.5°	560.4	542.8	514.3	494.8	478.5	451.2	441.5	431.8
80°	447.0	438.5	417.8	392.4	383.9	357.2	349.9	337.2
82.5°	325.1	316.6	300.2	282.6	272.3	258.3	246.2	237.8
85°	198.3	189.2	180.7	164.9	158.9	148.6	138.9	134.1
87.5°	71.6	64.3	57.6	50.3	46.7	39.4	38.2	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)