

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: P197608

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115333)
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-MQ-MS/DIM-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.3 lumens
Efficiency: N/A
Efficacy: 126.8 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

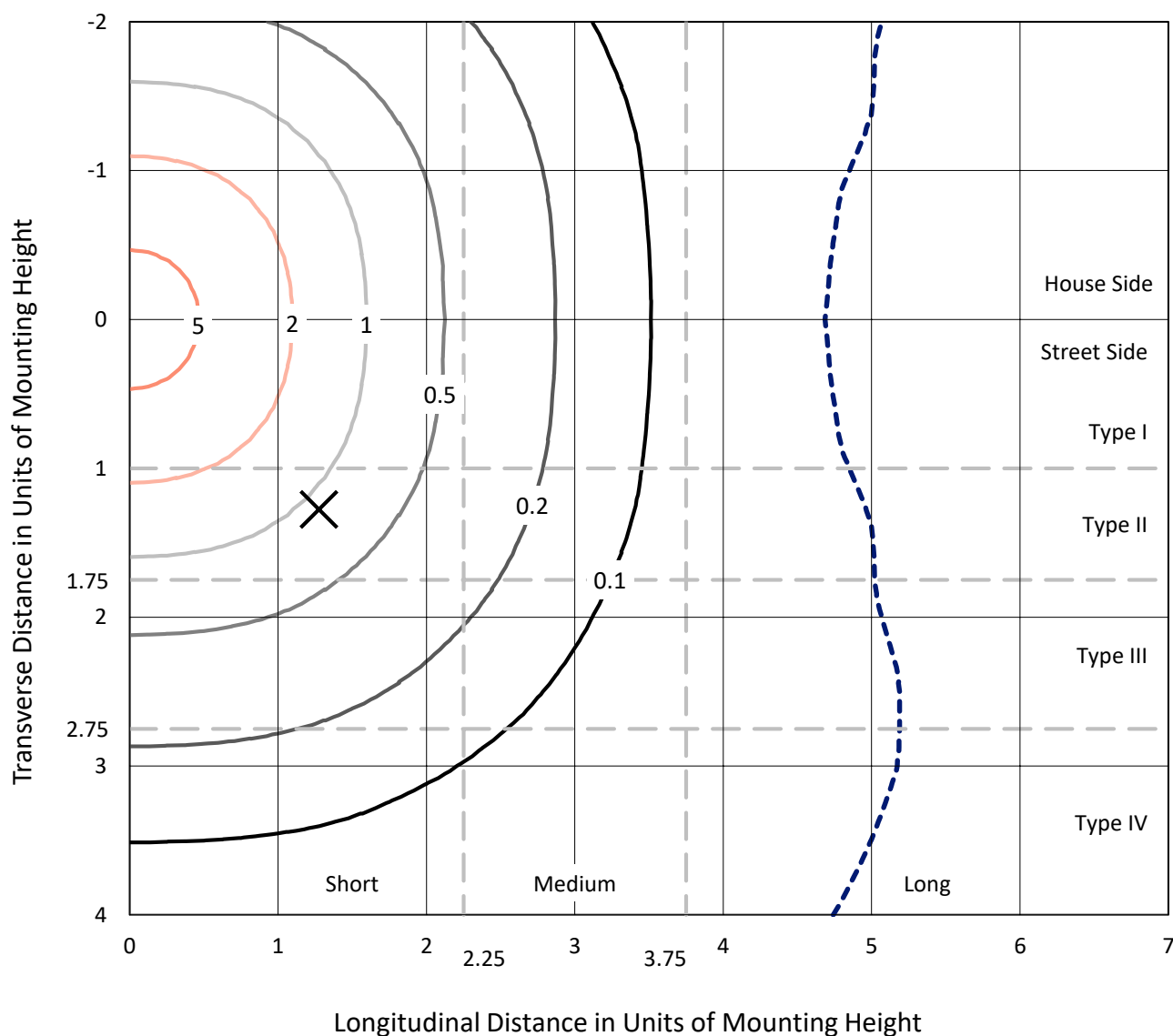


REPORT NUMBER: P197608

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

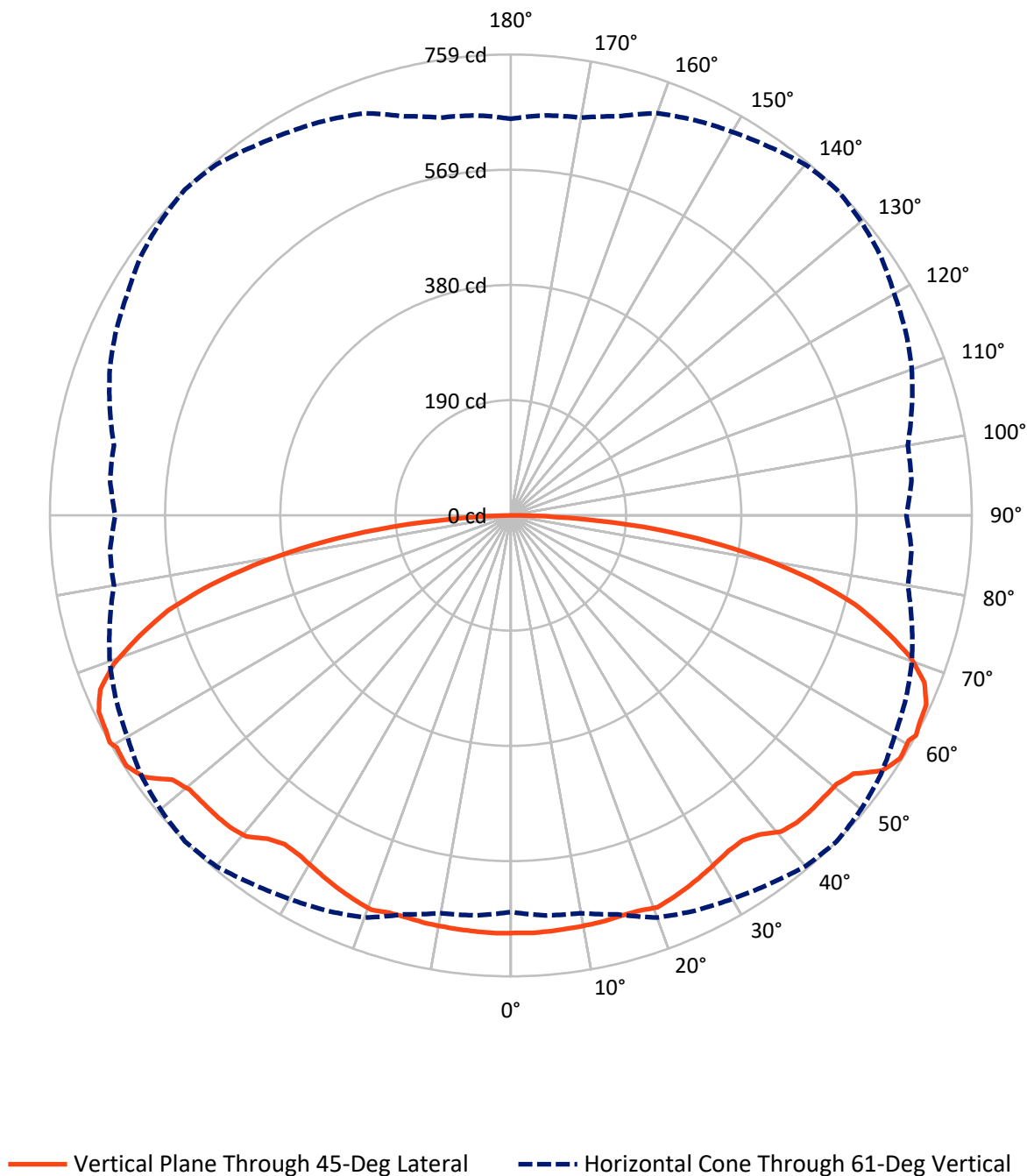


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P197608

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

Luminous Intensity Polar Plot



REPORT NUMBER: P197608

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

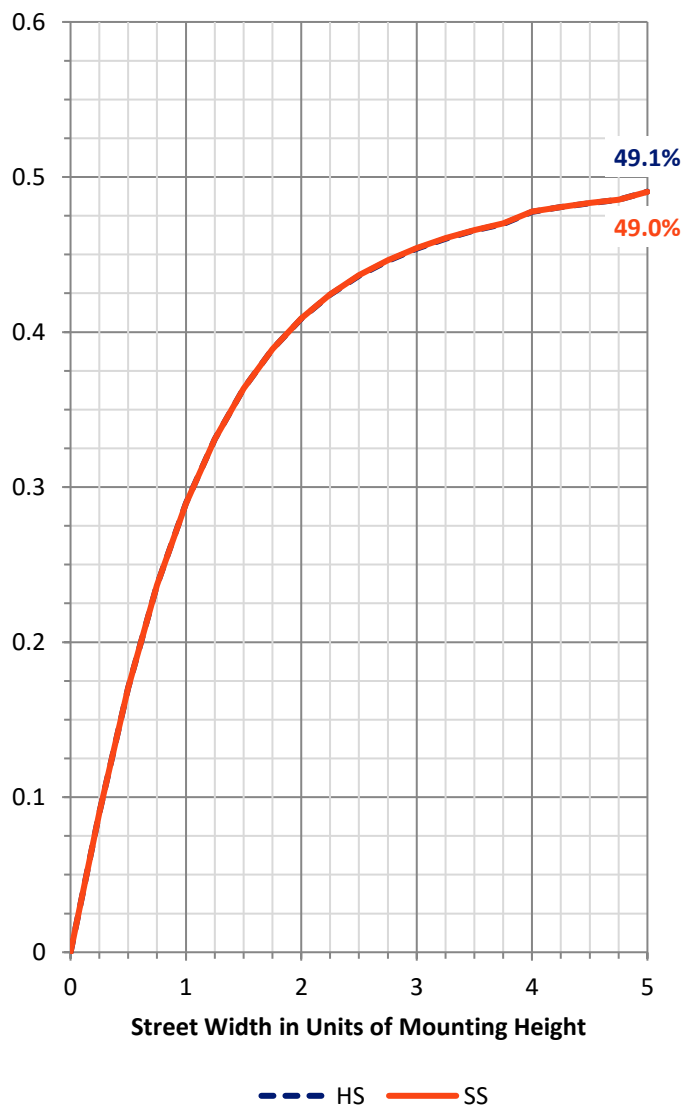
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.1	0.0	1775.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1775.1	0.0	1775.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3550.3	0.0	3550.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.8
10°-20°	194.0	5.5
20°-30°	312.2	8.8
30°-40°	413.5	11.6
40°-50°	522.2	14.7
50°-60°	625.7	17.6
60°-70°	684.2	19.3
70°-80°	547.7	15.4
80°-90°	185.3	5.2
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°	3550.3	100.0
0°-180°	3550.3	100.0

Coefficient of Utilization



REPORT NUMBER: P197608

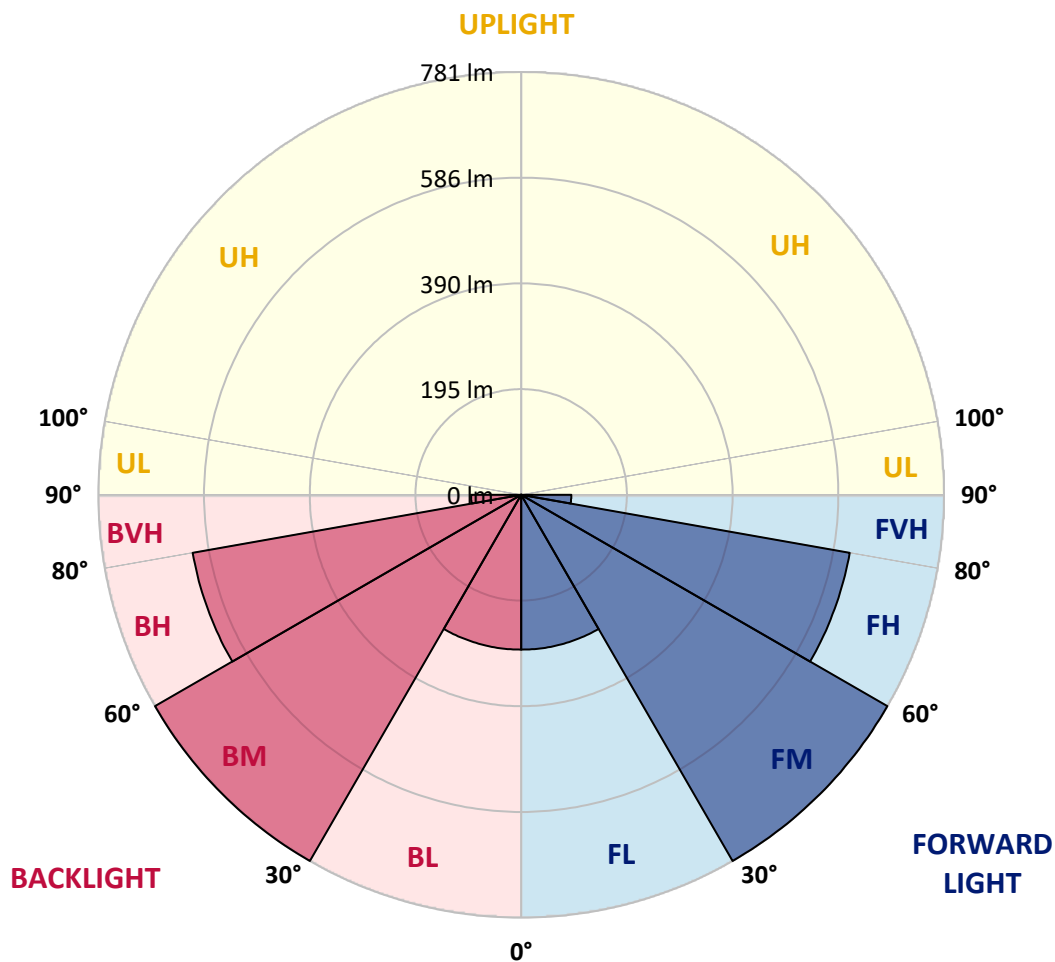
CATALOG NUMBER: TT-C1-LED-E1-MQ-MS/DIM-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.9	8.1			
FM	(30°-60°)	780.7	22.0			
FH	(60°-80°)	615.9	17.3			G0/660
FVH	(80°-90°)	92.6	2.6			G1/100
BL	(0°-30°)	285.9	8.1	B1/500		
BM	(30°-60°)	780.7	22.0	B1/1000		
BH	(60°-80°)	615.9	17.3	B2/1000		G0/660
BVH	(80°-90°)	92.6	2.6			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: P197608

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9
2.5°	688.5	687.9	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
5°	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9
7.5°	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.2	687.9	687.2	687.9
10°	685.9	685.9	685.9	685.9	686.5	686.5	686.5	686.5	686.5	686.5	686.5
12.5°	684.5	684.5	684.5	684.5	685.2	685.2	685.2	685.2	685.9	685.9	685.2
15°	683.2	682.6	682.6	683.2	683.2	683.9	683.9	683.9	684.5	683.9	683.9
17.5°	681.9	681.2	681.9	682.6	682.6	683.2	683.9	683.9	684.5	684.5	684.5
20°	683.9	683.2	683.9	684.5	685.2	686.5	687.2	687.9	688.5	689.1	689.1
22.5°	679.9	679.3	679.9	679.9	680.5	681.2	682.6	683.2	683.9	683.9	683.9
25°	674.0	674.0	674.6	674.6	675.3	675.9	676.6	677.2	677.2	677.9	677.2
27.5°	667.4	667.4	668.0	668.0	669.3	669.3	670.0	670.7	671.3	671.3	671.3
30°	659.4	659.4	660.0	660.7	662.1	662.7	663.4	664.0	664.7	664.7	664.7
32.5°	652.1	651.5	652.1	653.4	655.4	656.7	658.1	658.8	658.8	658.8	659.4
35°	646.2	646.9	648.1	649.5	652.1	653.4	654.8	656.7	657.4	657.4	657.4
37.5°	647.5	648.1	650.2	652.8	656.1	660.0	662.7	665.3	667.4	666.7	666.0
40°	656.1	657.4	660.7	664.7	670.0	675.3	679.3	682.6	684.5	685.2	684.5
42.5°	657.4	658.8	661.4	667.4	673.3	679.3	684.5	687.9	690.5	691.2	690.5
45°	656.7	656.7	660.7	667.4	673.3	679.3	685.9	690.5	693.1	693.1	693.1
47.5°	652.1	654.1	656.7	663.4	671.3	677.2	683.9	688.5	691.8	693.8	691.8
50°	652.1	652.1	656.7	661.4	668.6	679.3	688.5	693.1	696.4	695.8	696.4
52.5°	650.8	654.8	657.4	664.0	677.2	687.9	695.1	701.7	706.4	707.0	705.7
55°	662.7	663.4	669.3	681.9	694.5	706.4	719.6	729.5	737.4	742.1	735.5
57.5°	672.0	668.6	680.5	691.2	705.7	723.6	743.4	751.3	757.3	756.0	757.9
60°	659.4	664.0	672.6	683.9	707.0	724.9	735.5	744.1	751.3	753.3	750.7
61°	653.4	661.4	665.3	680.5	705.0	718.3	729.5	741.4	754.6	759.3	753.3
62.5°	643.5	656.1	654.8	679.3	694.5	709.6	730.8	744.7	754.0	755.3	754.0
65°	644.2	642.2	657.4	675.3	690.5	717.6	735.5	744.1	749.3	752.0	750.7
67.5°	623.0	616.4	635.0	647.5	673.3	694.5	711.7	724.2	732.2	734.8	731.5
70°	574.1	578.7	591.9	611.1	632.3	658.1	674.0	690.5	697.1	697.7	697.7
72.5°	527.1	529.8	543.0	560.9	585.3	607.8	623.7	636.9	642.9	643.5	644.8
75°	464.9	467.6	482.8	499.3	523.8	543.0	554.2	570.1	578.7	586.0	580.0
77.5°	392.8	397.5	409.4	427.3	449.7	460.3	480.2	498.7	504.7	506.6	504.7
80°	311.5	317.5	328.0	351.8	361.8	379.0	398.2	406.1	411.4	412.7	413.3
82.5°	224.2	228.9	240.1	256.6	267.9	281.8	294.9	304.9	310.8	309.6	308.9
85°	132.3	133.6	145.5	156.7	165.3	173.9	184.5	191.8	193.1	195.8	195.1
87.5°	39.7	40.3	45.7	51.6	55.5	59.5	66.2	74.8	76.7	71.4	72.1
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: P197608

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9
2.5°	688.5	688.5	688.5	688.5	688.5	688.5	687.9	688.5
5°	687.9	687.9	687.9	687.9	687.9	687.9	687.9	687.9
7.5°	687.9	687.2	687.2	687.2	687.2	687.2	687.2	687.2
10°	686.5	686.5	686.5	686.5	685.9	685.9	685.9	685.9
12.5°	685.2	685.2	685.2	685.2	684.5	684.5	684.5	684.5
15°	683.9	683.9	683.9	683.9	683.2	683.2	683.2	683.2
17.5°	684.5	683.9	683.2	683.2	682.6	681.9	681.9	681.9
20°	688.5	687.9	686.5	685.2	684.5	683.9	683.9	683.9
22.5°	683.2	682.6	681.2	680.5	680.5	679.9	679.3	679.3
25°	677.2	675.9	675.9	675.3	675.3	674.0	674.0	673.3
27.5°	670.7	670.0	669.3	668.6	668.6	668.0	667.4	666.7
30°	664.7	663.4	662.1	661.4	660.7	660.0	660.0	660.0
32.5°	658.8	657.4	656.7	654.8	653.4	652.8	652.1	652.1
35°	656.7	654.8	653.4	651.5	649.5	648.1	647.5	646.2
37.5°	664.7	662.1	660.0	656.7	652.1	650.2	648.1	647.5
40°	681.9	679.3	675.3	670.0	664.7	660.7	657.4	656.1
42.5°	687.9	684.5	679.3	674.0	667.4	661.4	658.8	657.4
45°	689.8	686.5	679.3	672.6	666.7	661.4	657.4	656.1
47.5°	687.9	683.2	676.6	671.3	662.7	656.1	653.4	651.5
50°	692.5	688.5	679.9	668.0	660.7	656.7	652.1	651.5
52.5°	701.7	694.5	686.5	677.9	664.0	656.1	653.4	650.2
55°	729.5	719.6	705.7	691.8	683.2	670.7	662.7	662.7
57.5°	750.7	742.7	724.9	706.4	690.5	681.2	669.3	670.0
60°	744.7	734.1	725.5	707.0	684.5	672.0	667.4	658.8
61°	744.1	729.5	717.6	703.1	683.9	664.0	662.7	651.5
62.5°	745.4	732.2	709.6	694.5	679.9	654.1	653.4	642.9
65°	744.1	731.5	720.3	691.8	672.0	661.4	638.9	647.5
67.5°	723.6	712.3	691.8	675.9	645.5	632.3	619.7	619.7
70°	691.2	674.6	654.8	635.0	614.5	591.9	580.7	574.1
72.5°	636.9	623.0	607.1	586.0	560.9	540.4	529.8	525.2
75°	568.8	553.6	539.7	523.8	497.4	480.2	468.9	465.6
77.5°	497.4	484.2	459.7	444.5	426.6	406.8	396.8	392.8
80°	406.1	398.8	381.6	357.1	348.5	324.1	317.5	311.5
82.5°	304.9	297.0	281.1	263.9	253.3	239.4	227.5	226.2
85°	191.8	186.5	176.6	164.0	150.8	142.9	132.3	134.9
87.5°	71.4	68.1	62.2	54.3	48.3	43.0	37.7	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)