

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: P197705

Luminaire Tested: **TT-C2-LED-E1-MQ-CG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115348)
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-MQ-CG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3616.1 lumens
Efficiency: N/A
Efficacy: 106.4 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

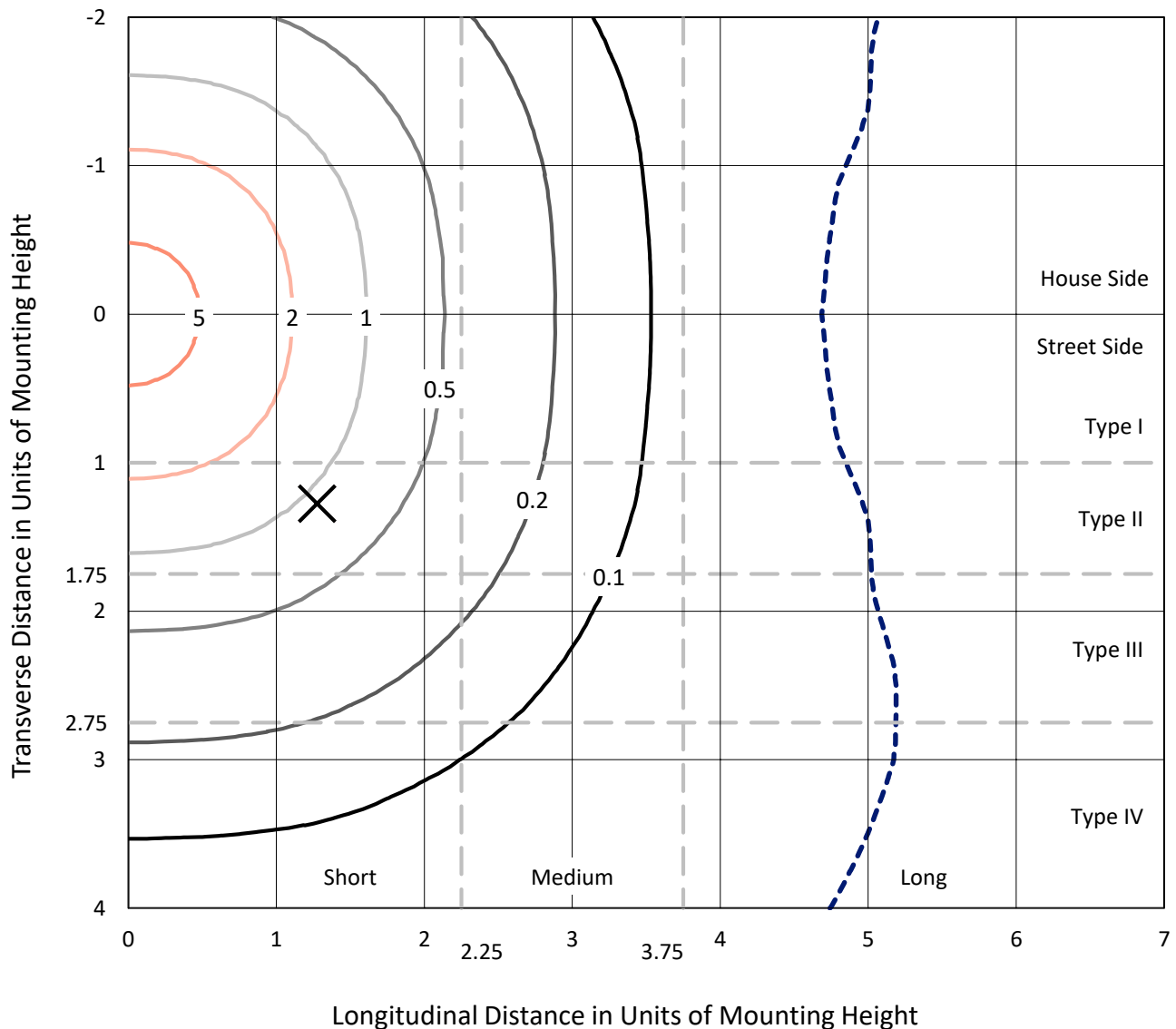


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

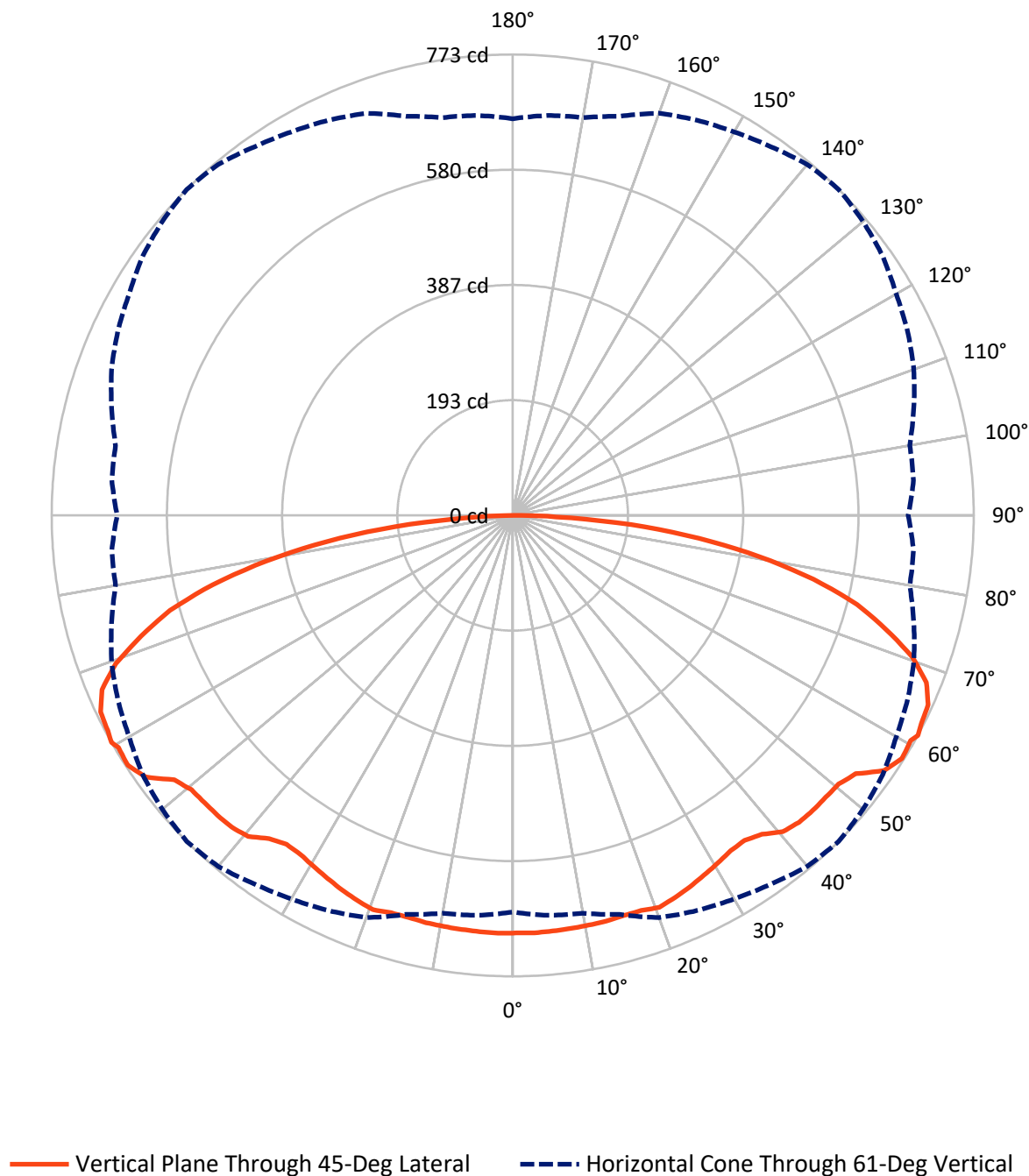


Based on 10 foot mounting height. Maximum calculated value = 7 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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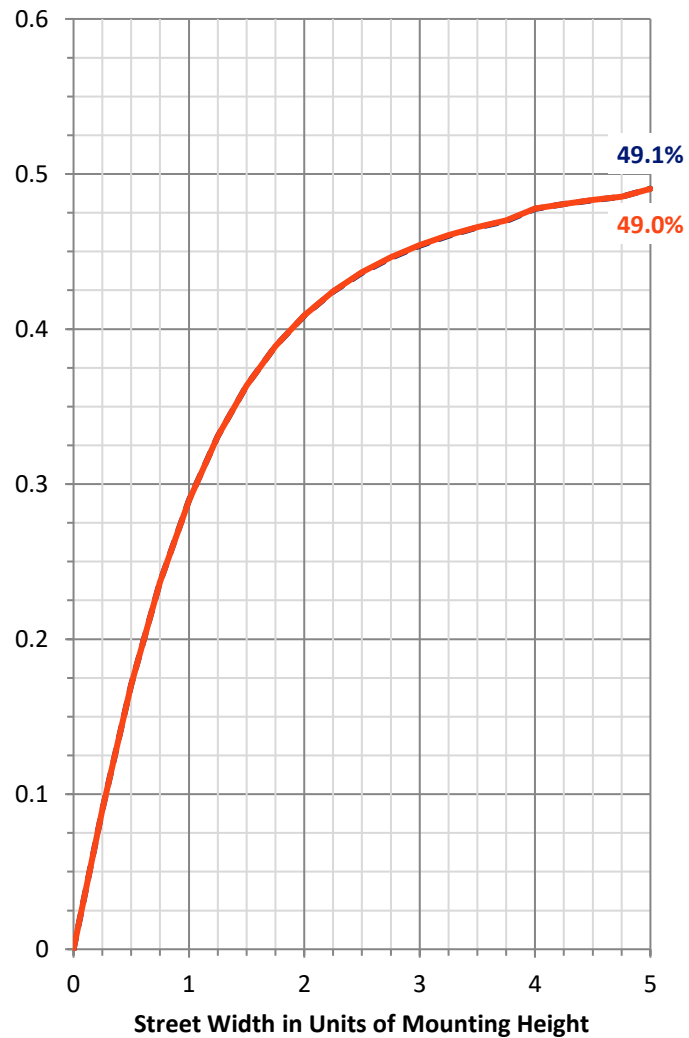
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.1	0.0	1808.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1808.1	0.0	1808.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3616.1	0.0	3616.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.8
10°-20°	197.6	5.5
20°-30°	317.9	8.8
30°-40°	421.2	11.6
40°-50°	531.9	14.7
50°-60°	637.3	17.6
60°-70°	696.8	19.3
70°-80°	557.8	15.4
80°-90°	188.7	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°	3616.1	100.0
0°-180°	3616.1	100.0

Coefficient of Utilization



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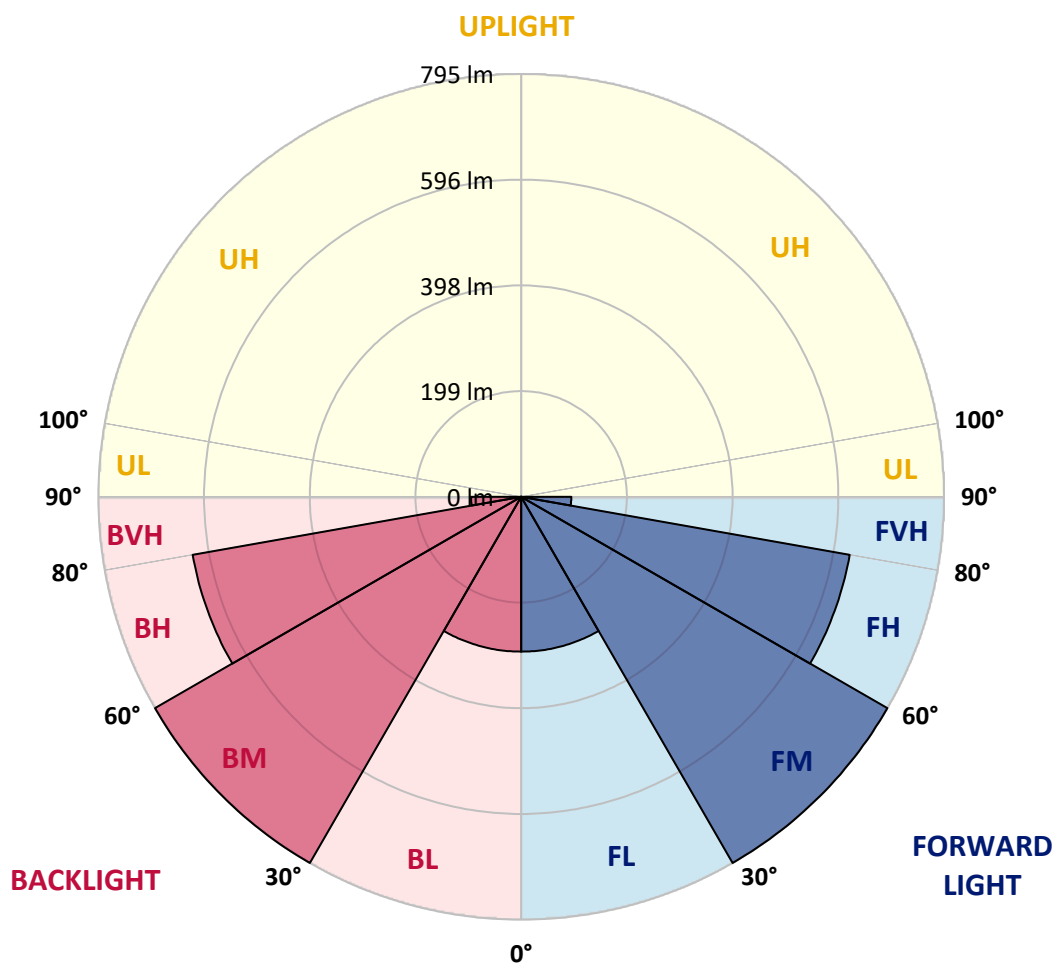
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.2	8.1			
FM	(30°-60°)	795.2	22.0			
FH	(60°-80°)	627.3	17.3			G0/660
FVH	(80°-90°)	94.4	2.6			G1/100
BL	(0°-30°)	291.2	8.1	B1/500		
BM	(30°-60°)	795.2	22.0	B1/1000		
BH	(60°-80°)	627.3	17.3	B2/1000		G0/660
BVH	(80°-90°)	94.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
2.5°	701.3	700.6	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3
5°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
7.5°	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	700.6	699.9	700.6
10°	698.6	698.6	698.6	698.6	699.2	699.2	699.2	699.2	699.2	699.2	699.2
12.5°	697.2	697.2	697.2	697.2	697.9	697.9	697.9	697.9	698.6	698.6	697.9
15°	695.9	695.2	695.2	695.9	695.9	696.6	696.6	696.6	697.2	696.6	696.6
17.5°	694.5	693.8	694.5	695.2	695.2	695.9	696.6	696.6	697.2	697.2	697.2
20°	696.6	695.9	696.6	697.2	697.9	699.2	699.9	700.6	701.3	701.9	701.9
22.5°	692.5	691.9	692.5	692.5	693.2	693.8	695.2	695.9	696.6	696.6	696.6
25°	686.5	686.5	687.1	687.1	687.8	688.4	689.1	689.8	689.8	690.5	689.8
27.5°	679.7	679.7	680.4	680.4	681.8	681.8	682.4	683.0	683.7	683.7	683.7
30°	671.7	671.7	672.3	673.0	674.3	675.0	675.7	676.4	677.1	677.1	677.1
32.5°	664.2	663.5	664.2	665.6	667.6	668.9	670.3	671.0	671.0	671.0	671.7
35°	658.2	658.8	660.2	661.5	664.2	665.6	666.9	668.9	669.6	669.6	669.6
37.5°	659.5	660.2	662.2	664.9	668.2	672.3	675.0	677.7	679.7	679.0	678.3
40°	668.2	669.6	673.0	677.1	682.4	687.8	691.9	695.2	697.2	697.9	697.2
42.5°	669.6	671.0	673.6	679.7	685.8	691.9	697.2	700.6	703.3	704.0	703.3
45°	668.9	668.9	673.0	679.7	685.8	691.9	698.6	703.3	706.0	706.0	706.0
47.5°	664.2	666.3	668.9	675.7	683.7	689.8	696.6	701.3	704.6	706.7	704.6
50°	664.2	664.2	668.9	673.6	681.1	691.9	701.3	706.0	709.4	708.7	709.4
52.5°	662.9	666.9	669.6	676.4	689.8	700.6	708.0	714.8	719.5	720.2	718.8
55°	675.0	675.7	681.8	694.5	707.3	719.5	732.9	743.0	751.1	755.8	749.1
57.5°	684.4	681.1	693.2	704.0	718.8	737.0	757.2	765.2	771.3	769.9	772.0
60°	671.7	676.4	685.1	696.6	720.2	738.3	749.1	757.9	765.2	767.3	764.6
61°	665.6	673.6	677.7	693.2	718.1	731.6	743.0	755.1	768.7	773.4	767.3
62.5°	655.5	668.2	666.9	691.9	707.3	722.8	744.4	758.6	768.0	769.3	768.0
65°	656.1	654.1	669.6	687.8	703.3	730.9	749.1	757.9	763.3	765.9	764.6
67.5°	634.6	627.9	646.7	659.5	685.8	707.3	724.9	737.6	745.7	748.4	745.1
70°	584.8	589.5	602.9	622.5	644.0	670.3	686.5	703.3	710.0	710.7	710.7
72.5°	536.9	539.6	553.0	571.3	596.1	619.1	635.2	648.7	654.8	655.5	656.8
75°	473.6	476.2	491.8	508.6	533.5	553.0	564.5	580.7	589.5	596.8	590.8
77.5°	400.1	404.9	417.0	435.2	458.1	468.9	489.1	508.0	514.0	516.0	514.0
80°	317.3	323.4	334.2	358.4	368.5	386.0	405.5	413.6	419.0	420.4	421.1
82.5°	228.4	233.1	244.5	261.4	272.8	287.0	300.5	310.6	316.6	315.3	314.6
85°	134.7	136.1	148.2	159.7	168.4	177.1	187.9	195.4	196.7	199.4	198.7
87.5°	40.5	41.1	46.4	52.5	56.6	60.6	67.4	76.1	78.2	72.8	73.5
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°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
2.5°	701.3	701.3	701.3	701.3	701.3	701.3	700.6	701.3
5°	700.6	700.6	700.6	700.6	700.6	700.6	700.6	700.6
7.5°	700.6	699.9	699.9	699.9	699.9	699.9	699.9	699.9
10°	699.2	699.2	699.2	699.2	698.6	698.6	698.6	698.6
12.5°	697.9	697.9	697.9	697.9	697.2	697.2	697.2	697.2
15°	696.6	696.6	696.6	696.6	695.9	695.9	695.9	695.9
17.5°	697.2	696.6	695.9	695.9	695.2	694.5	694.5	694.5
20°	701.3	700.6	699.2	697.9	697.2	696.6	696.6	696.6
22.5°	695.9	695.2	693.8	693.2	693.2	692.5	691.9	691.9
25°	689.8	688.4	688.4	687.8	687.8	686.5	686.5	685.8
27.5°	683.0	682.4	681.8	681.1	681.1	680.4	679.7	679.0
30°	677.1	675.7	674.3	673.6	673.0	672.3	672.3	672.3
32.5°	671.0	669.6	668.9	666.9	665.6	664.9	664.2	664.2
35°	668.9	666.9	665.6	663.5	661.5	660.2	659.5	658.2
37.5°	677.1	674.3	672.3	668.9	664.2	662.2	660.2	659.5
40°	694.5	691.9	687.8	682.4	677.1	673.0	669.6	668.2
42.5°	700.6	697.2	691.9	686.5	679.7	673.6	671.0	669.6
45°	702.6	699.2	691.9	685.1	679.0	673.6	669.6	668.2
47.5°	700.6	695.9	689.1	683.7	675.0	668.2	665.6	663.5
50°	705.3	701.3	692.5	680.4	673.0	668.9	664.2	663.5
52.5°	714.8	707.3	699.2	690.5	676.4	668.2	665.6	662.2
55°	743.0	732.9	718.8	704.6	695.9	683.0	675.0	675.0
57.5°	764.6	756.5	738.3	719.5	703.3	693.8	681.8	682.4
60°	758.6	747.8	739.0	720.2	697.2	684.4	679.7	671.0
61°	757.9	743.0	730.9	716.1	696.6	676.4	675.0	663.5
62.5°	759.2	745.7	722.8	707.3	692.5	666.3	665.6	654.8
65°	757.9	745.1	733.6	704.6	684.4	673.6	650.7	659.5
67.5°	737.0	725.5	704.6	688.4	657.5	644.0	631.2	631.2
70°	704.0	687.1	666.9	646.7	625.8	602.9	591.4	584.8
72.5°	648.7	634.6	618.4	596.8	571.3	550.4	539.6	534.9
75°	579.4	563.8	549.7	533.5	506.6	489.1	477.6	474.3
77.5°	506.6	493.1	468.2	452.7	434.5	414.3	404.2	400.1
80°	413.6	406.2	388.7	363.8	355.0	330.1	323.4	317.3
82.5°	310.6	302.4	286.3	268.8	258.0	243.8	231.7	230.4
85°	195.4	190.0	179.9	167.0	153.6	145.5	134.7	137.4
87.5°	72.8	69.4	63.3	55.3	49.2	43.8	38.4	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)