

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: P197583

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)
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-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM 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: 3305.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full 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



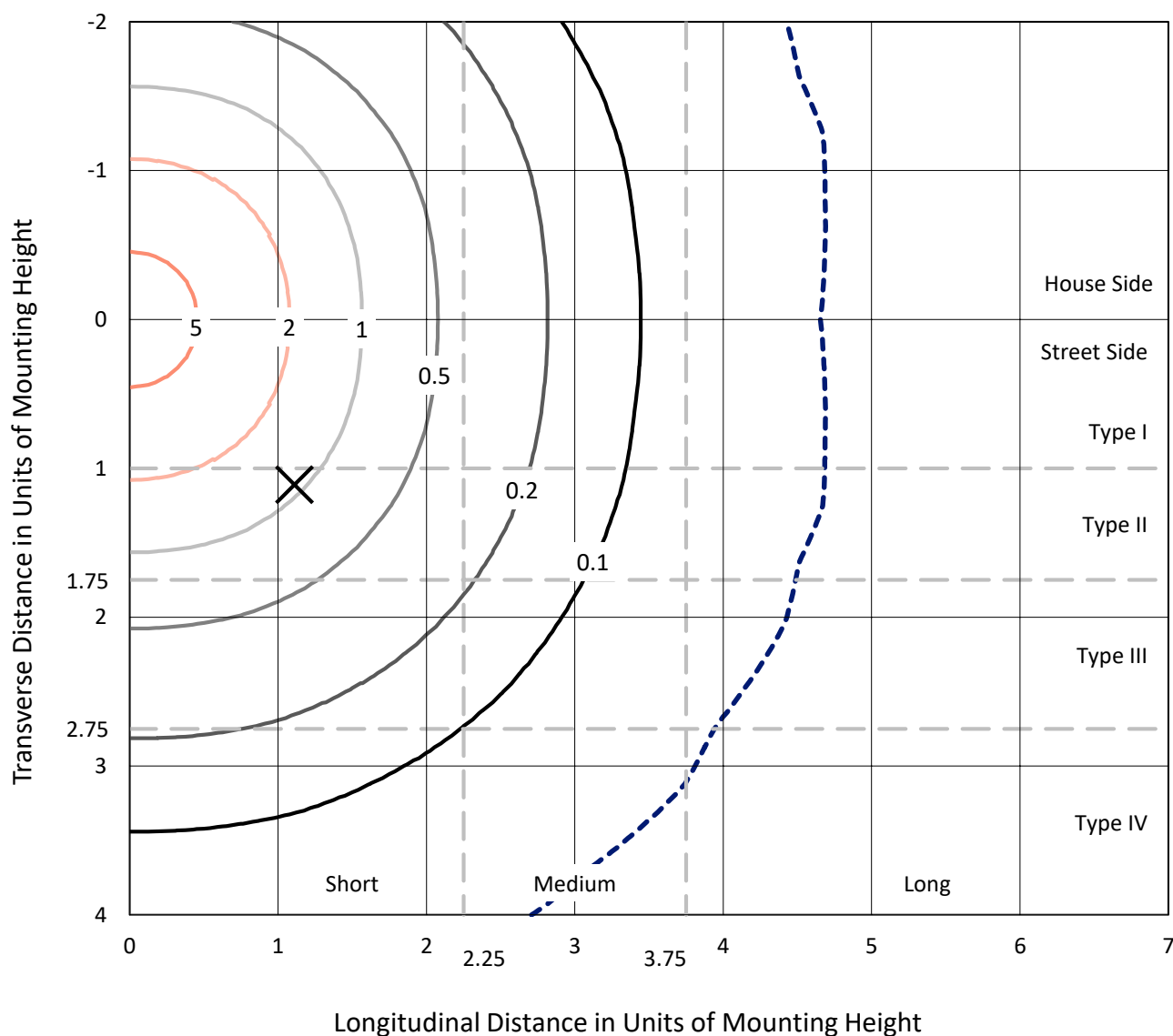
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

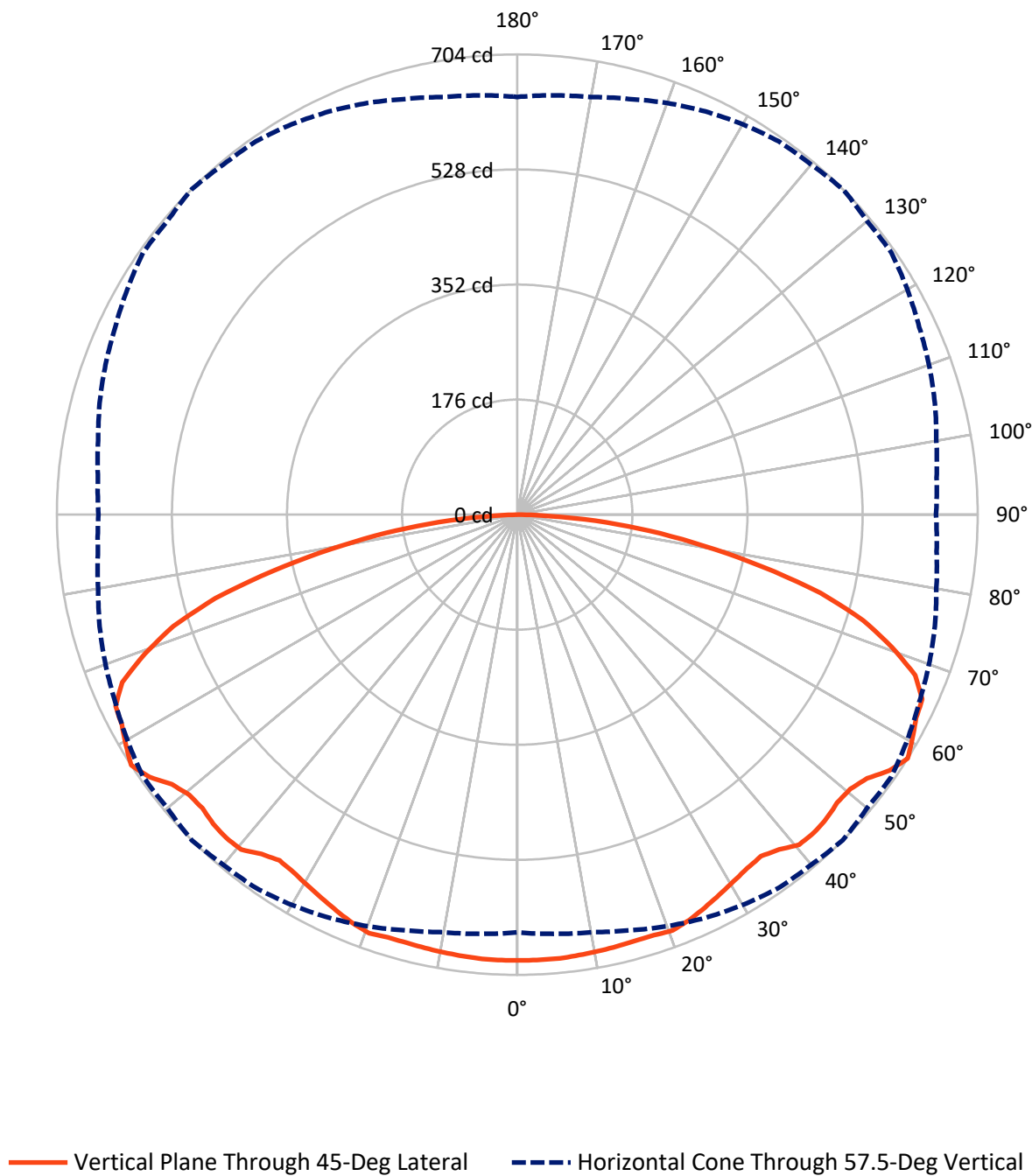


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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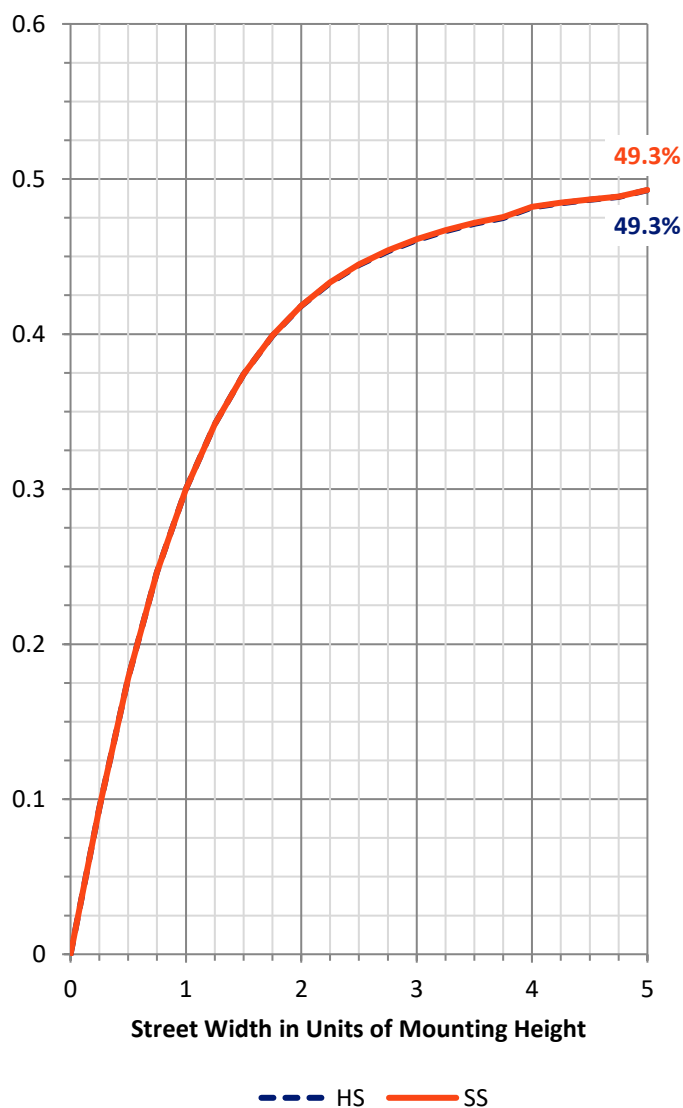
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1652.7	0.0	1652.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1652.7	0.0	1652.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3305.3	0.0	3305.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	2.0
10°-20°	191.6	5.8
20°-30°	306.9	9.3
30°-40°	404.1	12.2
40°-50°	503.3	15.2
50°-60°	592.8	17.9
60°-70°	630.2	19.1
70°-80°	472.6	14.3
80°-90°	138.8	4.2
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°	3305.3	100.0
0°-180°	3305.3	100.0

Coefficient of Utilization



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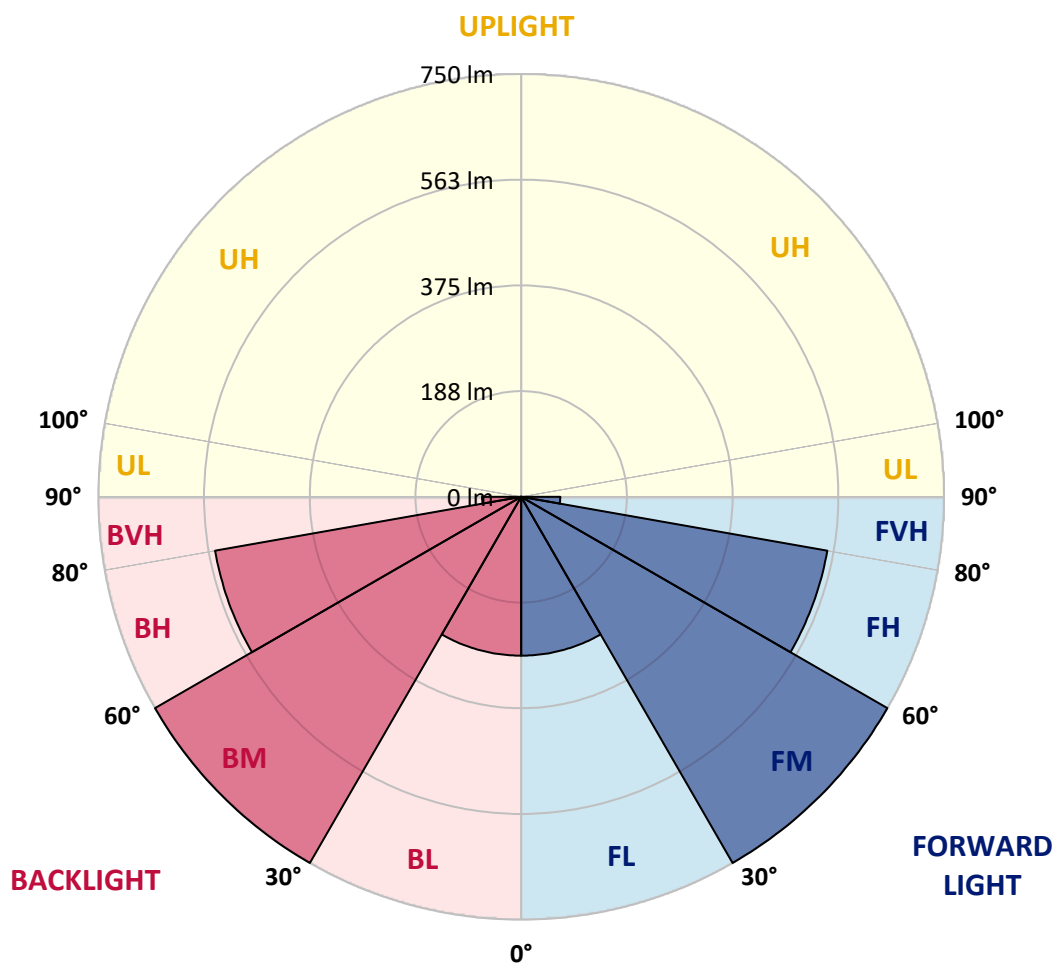
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.8	8.5			
FM	(30°-60°)	750.1	22.7			
FH	(60°-80°)	551.4	16.7			G0/660
FVH	(80°-90°)	69.4	2.1			G1/100
BL	(0°-30°)	281.8	8.5	B1/500		
BM	(30°-60°)	750.1	22.7	B1/1000		
BH	(60°-80°)	551.4	16.7	B2/1000		G0/660
BVH	(80°-90°)	69.4	2.1			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	681.1	681.1	681.1	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
5°	681.1	681.1	681.1	681.1	681.1	681.1	681.8	681.8	681.8	681.8	681.8
7.5°	679.7	679.7	679.7	679.7	679.7	680.4	680.4	680.4	680.4	680.4	680.4
10°	678.3	678.3	678.3	678.3	679.0	679.0	679.0	679.0	679.0	679.0	679.0
12.5°	677.0	677.0	676.3	677.0	677.0	677.0	677.7	677.7	677.7	677.7	677.7
15°	674.2	674.2	674.9	674.9	675.6	675.6	675.6	675.6	676.3	676.3	676.3
17.5°	672.8	672.8	673.5	674.2	674.2	674.9	675.6	675.6	676.3	676.3	676.3
20°	674.9	674.9	674.9	675.6	676.3	677.0	677.7	678.3	678.3	679.0	678.3
22.5°	670.7	670.7	670.7	671.4	671.4	671.4	672.1	672.8	672.8	673.5	672.8
25°	663.1	663.1	663.8	663.8	664.5	664.5	665.2	665.2	665.2	665.9	665.9
27.5°	655.5	654.8	656.2	656.2	656.9	656.9	657.6	658.3	658.3	658.3	659.0
30°	647.2	647.2	647.9	647.9	648.6	649.3	650.0	650.7	650.7	651.3	651.3
32.5°	638.2	638.9	639.6	640.3	641.0	642.4	643.0	643.7	644.4	645.1	644.4
35°	632.0	632.7	633.4	634.7	636.8	638.2	639.6	641.0	641.7	641.7	641.7
37.5°	633.4	634.0	635.4	638.2	641.7	643.7	646.5	648.6	649.3	650.0	650.0
40°	641.0	642.4	644.4	647.9	652.0	655.5	659.7	661.7	663.1	663.8	663.1
42.5°	640.3	642.4	644.4	648.6	653.4	656.9	661.0	663.1	664.5	665.2	664.5
45°	638.2	639.6	641.7	645.8	649.3	654.1	658.3	660.3	662.4	663.1	662.4
47.5°	633.4	633.4	634.0	638.2	643.0	649.3	652.7	656.2	658.3	658.3	658.3
50°	627.1	629.9	631.3	636.8	641.7	647.2	653.4	658.3	659.0	659.7	659.0
52.5°	627.1	627.8	632.7	636.1	645.8	654.1	660.3	665.2	669.3	670.0	670.0
55°	638.2	639.6	642.4	650.7	658.3	670.7	681.1	685.3	688.0	690.8	688.0
57.5°	638.9	643.7	648.6	658.3	670.0	680.4	689.4	697.0	699.1	704.0	698.4
60°	630.6	632.0	636.8	648.6	663.8	674.9	683.2	690.1	697.0	694.3	697.0
62.5°	617.4	620.9	627.8	636.8	649.3	662.4	674.9	677.0	687.3	684.6	688.7
65°	607.0	609.8	616.7	629.9	645.1	653.4	667.3	675.6	674.9	680.4	674.2
67.5°	581.4	583.5	589.7	602.9	617.4	629.9	634.0	647.2	648.6	656.2	649.3
70°	539.2	544.1	553.1	565.5	577.3	587.7	595.3	602.2	606.4	607.7	606.4
72.5°	486.6	494.2	501.1	512.9	524.7	531.6	536.4	546.1	548.9	553.1	551.7
75°	432.6	432.6	439.5	448.5	457.5	461.7	464.5	470.7	474.1	479.0	474.8
77.5°	358.6	362.7	368.9	376.6	375.2	377.2	377.2	380.7	379.3	382.8	385.5
80°	281.0	285.2	290.7	296.3	295.6	290.7	294.2	290.0	288.6	289.3	291.4
82.5°	200.7	203.5	208.3	211.8	211.8	208.3	209.7	205.6	207.0	203.5	206.3
85°	114.9	118.4	121.8	125.3	125.3	123.2	125.3	119.7	120.4	120.4	120.4
87.5°	28.4	31.1	32.5	34.6	33.2	36.7	38.8	35.3	36.0	34.6	36.7
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°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	681.8	681.1	681.8	681.8	681.8	681.8	681.1	681.1
5°	681.8	681.8	681.8	681.1	681.1	681.1	681.1	681.1
7.5°	680.4	680.4	680.4	679.7	679.7	679.7	679.7	679.7
10°	679.0	679.0	678.3	678.3	678.3	678.3	678.3	678.3
12.5°	677.7	677.7	677.0	677.0	677.0	677.0	677.0	676.3
15°	676.3	676.3	675.6	675.6	674.9	674.9	674.2	674.2
17.5°	676.3	675.6	674.9	674.2	674.2	673.5	672.8	672.8
20°	678.3	677.7	677.0	676.3	675.6	674.9	674.9	674.2
22.5°	672.8	672.1	671.4	671.4	670.7	670.7	670.7	670.0
25°	665.9	665.2	665.2	663.8	663.8	663.1	663.1	662.4
27.5°	658.3	657.6	657.6	656.9	656.2	655.5	654.8	654.8
30°	650.7	650.0	650.0	649.3	647.9	647.9	647.2	646.5
32.5°	643.7	643.7	643.0	641.7	640.3	639.6	638.2	638.2
35°	641.7	640.3	638.9	636.8	634.7	633.4	632.7	632.0
37.5°	649.3	647.2	643.7	641.7	638.9	636.1	634.7	633.4
40°	662.4	659.0	655.5	652.0	647.9	644.4	641.7	641.0
42.5°	663.1	661.0	657.6	653.4	648.6	644.4	641.7	641.0
45°	661.0	658.3	654.1	649.3	645.8	641.0	638.9	638.2
47.5°	656.2	653.4	649.3	642.4	637.5	634.0	633.4	633.4
50°	659.0	653.4	646.5	642.4	637.5	632.0	629.9	628.5
52.5°	665.2	659.7	655.5	646.5	636.1	631.3	628.5	626.4
55°	685.3	682.5	670.0	657.6	650.0	643.7	641.0	639.6
57.5°	698.4	688.7	678.3	670.0	661.0	650.7	643.7	640.3
60°	691.5	681.1	676.3	665.2	646.5	635.4	631.3	629.2
62.5°	676.3	676.3	663.1	645.8	638.9	629.2	621.6	618.8
65°	675.6	666.6	653.4	647.2	630.6	616.0	608.4	607.0
67.5°	646.5	634.0	630.6	616.7	602.9	589.7	584.2	581.4
70°	602.2	598.1	587.7	578.7	566.2	552.4	544.8	542.0
72.5°	546.1	539.2	534.4	526.8	515.0	497.7	491.5	488.0
75°	470.0	466.5	466.5	458.2	447.2	436.8	436.1	434.7
77.5°	377.9	379.3	382.8	373.8	377.2	371.7	366.9	363.4
80°	287.3	293.5	294.2	296.3	298.3	290.7	287.3	283.1
82.5°	204.2	207.7	211.8	212.5	213.9	208.3	205.6	201.4
85°	120.4	122.5	126.0	126.0	126.0	121.1	119.7	116.3
87.5°	35.3	35.3	37.4	35.3	35.3	35.3	31.8	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)