

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: P197871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-WQ-SG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3007.4 lumens
Efficiency: N/A
Efficacy: 107.4 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

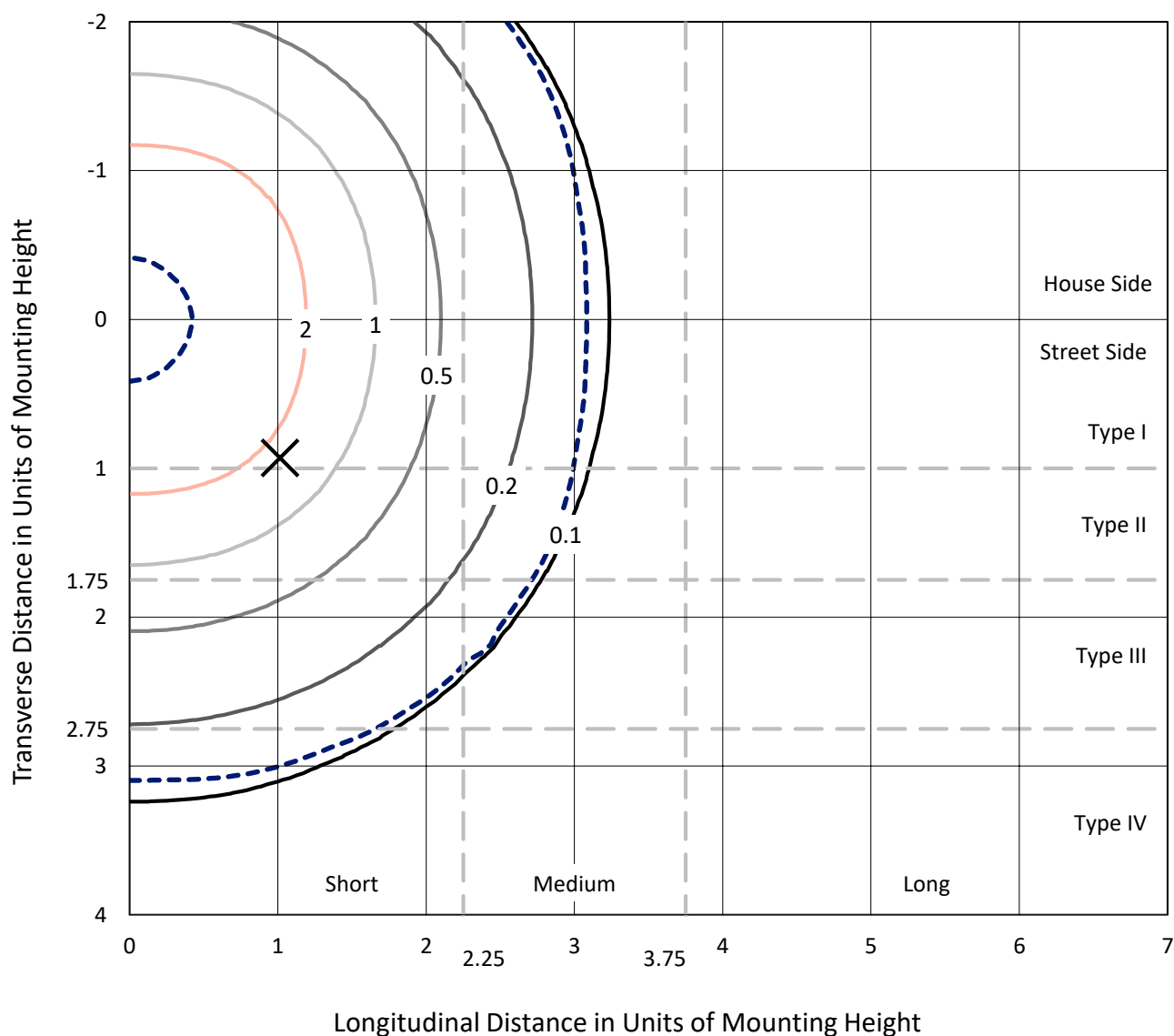


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

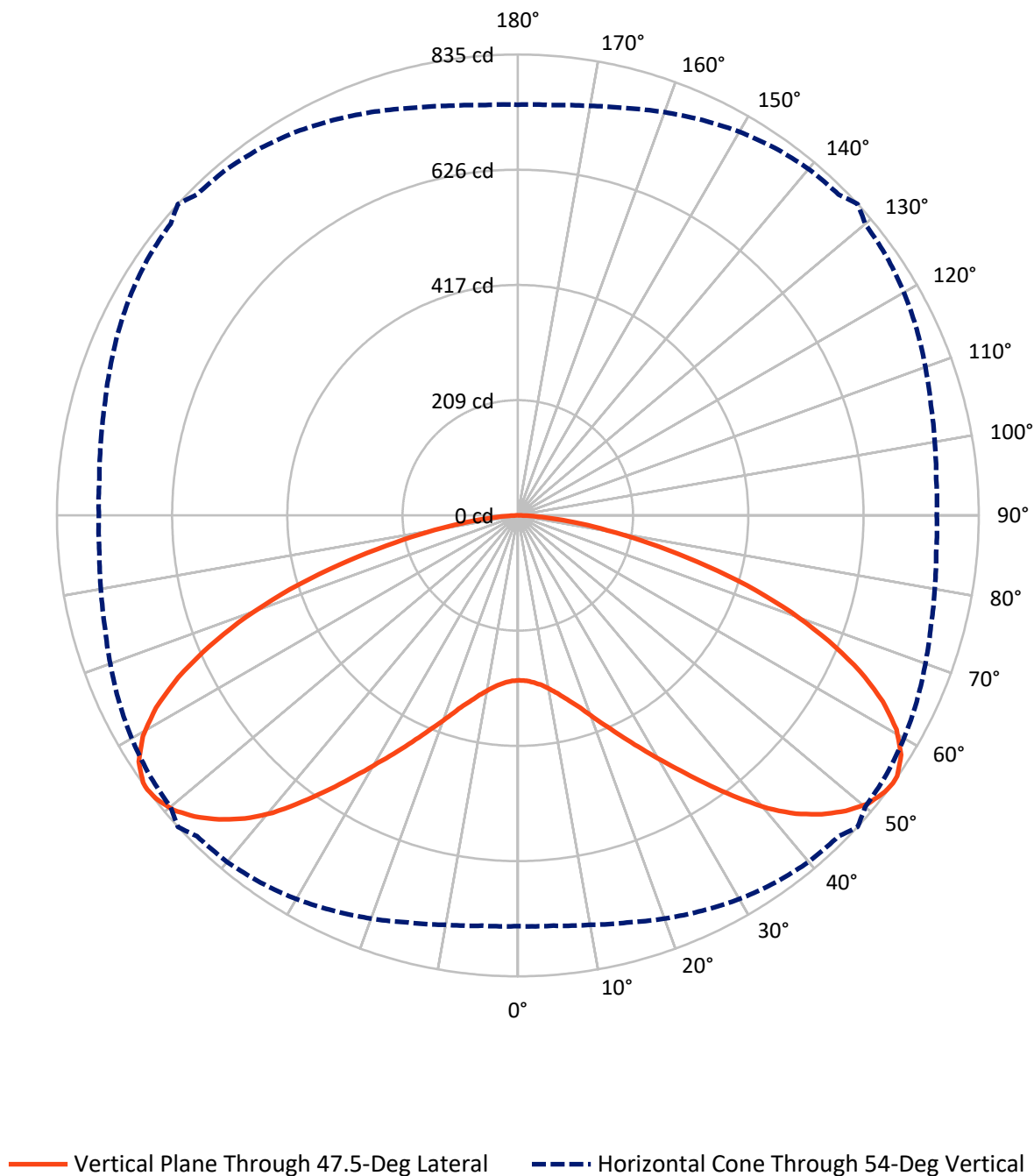


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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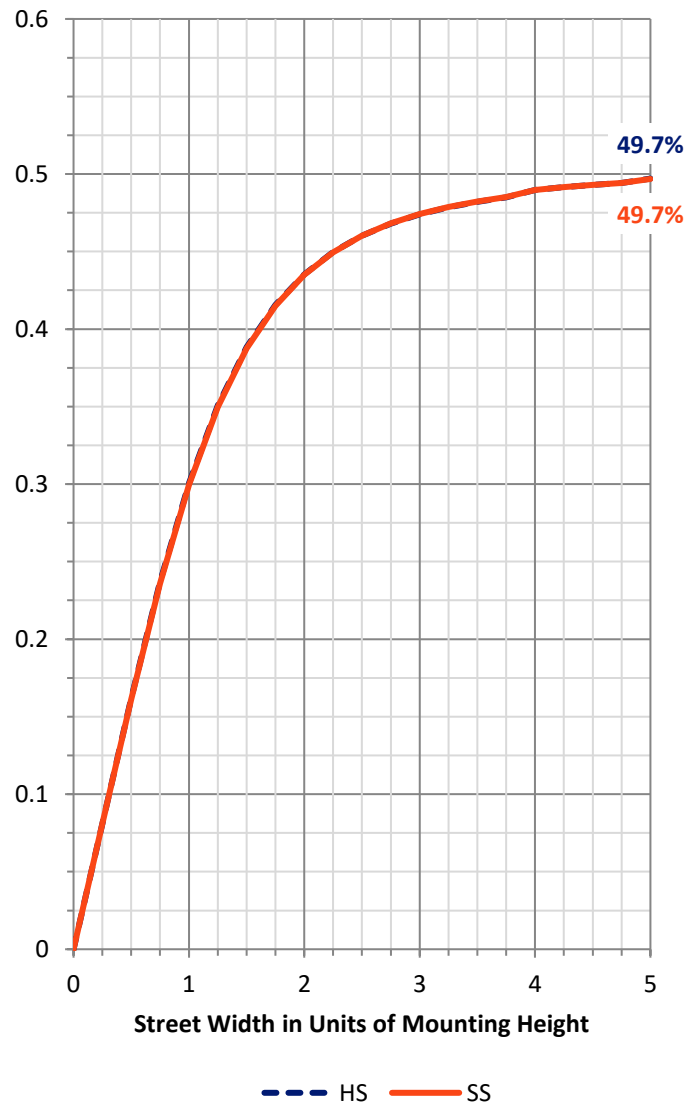
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1503.7	0.0	1503.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1503.7	0.0	1503.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3007.4	0.0	3007.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.0
10°-20°	99.9	3.3
20°-30°	205.8	6.8
30°-40°	368.0	12.2
40°-50°	564.6	18.8
50°-60°	696.1	23.1
60°-70°	629.7	20.9
70°-80°	346.7	11.5
80°-90°	67.1	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°	3007.4	100.0
0°-180°	3007.4	100.0

Coefficient of Utilization



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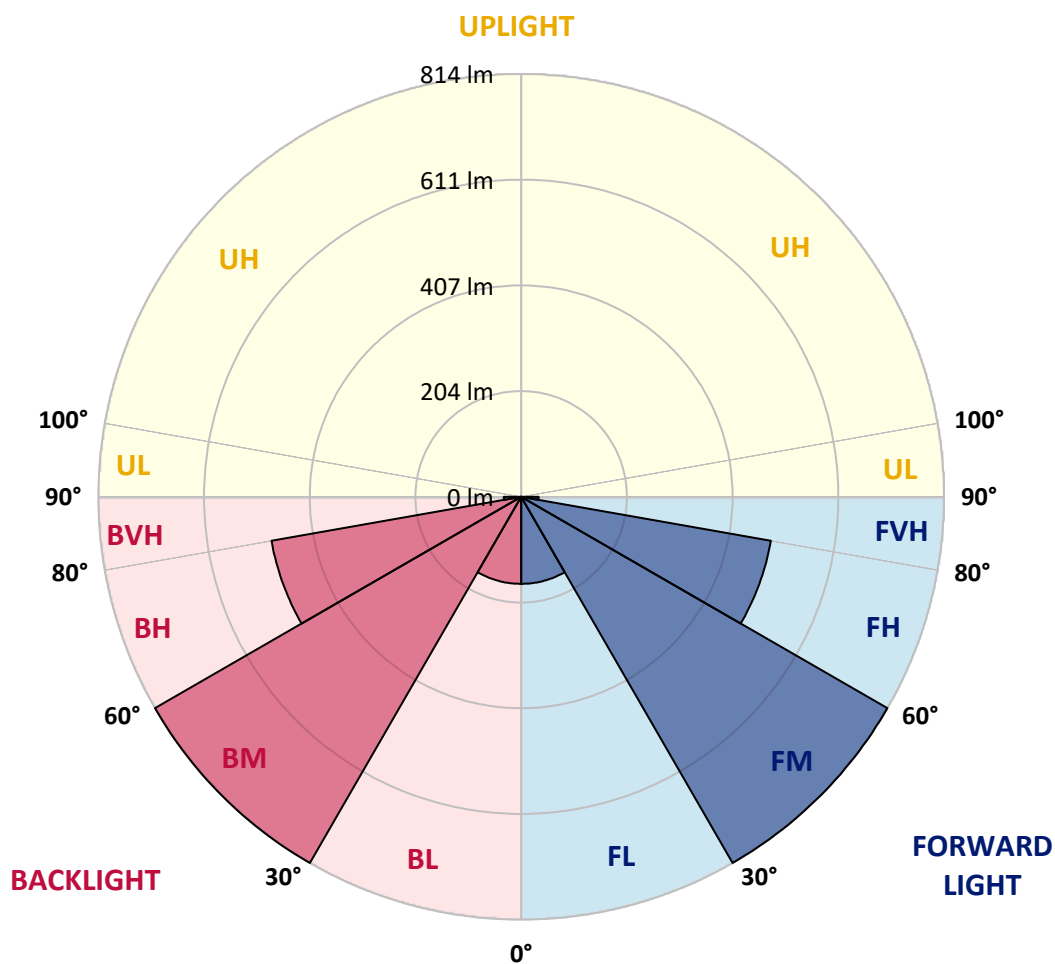
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.6	5.6			
FM	(30°-60°)	814.3	27.1			
FH	(60°-80°)	488.2	16.2			G0/660
FVH	(80°-90°)	33.5	1.1			G1/100
BL	(0°-30°)	167.6	5.6	B1/500		
BM	(30°-60°)	814.3	27.1	B1/1000		
BH	(60°-80°)	488.2	16.2	B1/500		G0/660
BVH	(80°-90°)	33.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6
2.5°	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9
5°	303.8	303.8	303.8	304.5	303.8	303.8	303.8	303.8	303.8	303.8	303.8
7.5°	310.3	310.3	310.3	310.3	310.3	310.3	309.7	309.7	310.3	309.7	310.3
10°	319.4	318.7	318.7	319.4	319.4	318.7	319.4	319.4	319.4	319.4	320.0
12.5°	331.1	331.1	331.7	331.7	331.7	332.4	332.4	331.7	332.4	332.4	332.4
15°	346.7	346.7	346.7	346.7	347.3	348.0	347.3	347.3	346.7	346.7	348.0
17.5°	364.8	364.8	364.8	364.8	366.1	366.1	365.5	366.1	366.8	366.8	366.1
20°	386.9	386.3	385.6	386.3	387.6	387.6	388.2	388.9	388.9	388.9	390.1
22.5°	410.3	409.6	410.9	411.6	412.2	412.9	412.9	413.5	414.8	414.2	416.1
25°	436.2	435.6	436.2	437.5	440.1	440.1	440.8	442.1	442.1	441.4	446.0
27.5°	465.5	465.5	466.1	468.7	469.3	470.0	471.9	473.2	475.2	475.2	479.1
30°	497.3	496.6	497.9	500.5	502.5	504.4	507.0	510.2	510.9	511.5	515.4
32.5°	529.7	529.7	531.0	535.6	538.8	542.1	545.9	549.2	550.5	550.5	556.3
35°	564.1	564.8	568.0	571.3	577.8	581.7	585.5	590.1	592.7	594.0	601.8
37.5°	600.5	602.4	605.0	609.6	616.1	622.5	628.4	635.5	639.4	640.7	649.2
40°	634.9	637.5	641.4	647.9	654.4	663.4	670.6	677.7	682.3	684.9	697.9
42.5°	668.6	669.9	674.5	681.6	690.1	698.5	708.2	716.0	720.6	724.5	738.8
45°	695.3	696.6	702.4	710.8	720.6	731.0	740.7	749.8	754.3	757.6	771.9
47.5°	717.3	719.9	726.4	734.9	744.6	756.9	768.0	777.1	782.9	784.8	799.8
50°	733.6	737.5	743.3	753.0	764.7	777.1	788.7	798.5	805.0	807.6	821.2
52.5°	742.6	745.9	752.4	762.1	775.8	788.1	800.4	810.2	817.3	819.9	832.2
54°	743.9	745.9	753.0	763.4	777.1	790.0	802.4	812.1	819.2	821.8	834.8
55°	742.6	743.9	751.7	761.5	775.8	788.7	801.1	810.8	818.6	821.2	833.5
57.5°	729.7	731.6	738.1	748.5	761.5	776.4	788.1	797.8	805.6	806.9	818.6
60°	703.0	705.6	711.5	722.5	735.5	748.5	760.2	768.6	775.8	779.6	788.1
62.5°	664.7	666.0	671.9	681.6	693.3	706.9	716.0	724.5	731.0	734.9	742.0
65°	610.2	616.1	620.6	628.4	637.5	648.5	660.2	666.7	669.9	676.4	681.6
67.5°	549.2	553.1	557.6	564.8	570.6	577.8	588.8	594.6	598.5	603.1	607.6
70°	481.0	479.7	484.9	488.8	495.3	499.9	507.0	510.2	514.8	517.4	525.2
72.5°	399.9	401.8	406.4	410.9	412.9	414.2	420.0	422.0	425.9	424.6	434.3
75°	326.5	323.3	324.6	325.2	326.5	325.2	329.1	331.1	333.0	331.1	336.3
77.5°	246.7	242.8	244.1	243.4	243.4	242.1	241.5	241.5	242.1	240.8	244.1
80°	170.1	168.1	168.8	170.1	166.8	167.5	163.6	163.6	163.6	163.6	164.9
82.5°	105.2	102.6	101.9	102.6	102.6	100.6	101.3	98.7	98.0	97.4	103.2
85°	51.3	50.0	51.3	50.0	49.3	49.3	48.0	48.7	47.4	46.7	50.6
87.5°	13.6	13.0	13.0	13.0	12.3	13.0	13.0	13.0	13.0	13.6	15.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6	298.6
2.5°	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.9	299.3
5°	303.8	303.8	303.8	303.8	303.8	303.8	303.8	303.8	303.8
7.5°	310.3	310.3	309.7	309.7	309.7	309.7	309.7	309.7	309.7
10°	319.4	320.0	318.7	318.7	319.4	318.7	318.7	318.1	318.1
12.5°	332.4	331.7	332.4	332.4	331.7	331.1	330.4	329.8	330.4
15°	347.3	346.7	346.7	346.7	346.0	346.0	345.4	346.0	345.4
17.5°	365.5	365.5	366.1	364.2	364.8	363.5	363.5	363.5	362.9
20°	388.9	388.2	387.6	385.6	386.3	385.0	384.3	383.7	383.0
22.5°	414.2	412.9	412.2	410.3	410.9	409.6	407.7	406.4	406.4
25°	442.1	440.8	439.5	438.8	438.2	435.6	434.3	432.3	433.6
27.5°	475.2	472.6	470.6	468.0	468.7	465.5	464.2	462.9	462.9
30°	510.9	508.9	505.7	503.8	503.1	499.9	497.3	496.0	495.3
32.5°	549.8	548.5	546.6	543.4	542.1	536.9	534.9	533.0	532.3
35°	595.9	592.7	590.7	586.2	581.7	578.4	573.9	572.6	571.3
37.5°	638.8	638.8	635.5	630.3	623.8	619.3	615.4	612.8	610.9
40°	684.2	682.9	677.7	673.2	666.7	660.2	653.1	650.5	649.2
42.5°	724.5	721.9	716.7	710.8	704.3	696.6	688.8	684.9	684.2
45°	758.2	755.0	749.8	742.0	733.6	725.8	718.6	714.7	712.8
47.5°	785.5	781.6	775.1	768.0	758.2	749.1	742.0	738.1	735.5
50°	805.6	802.4	795.2	786.1	776.4	766.0	758.9	754.3	752.4
52.5°	818.6	814.1	806.3	796.5	785.5	775.1	766.7	761.5	759.5
54°	821.2	816.0	807.6	797.2	785.5	774.5	766.7	760.8	758.9
55°	819.9	814.7	805.6	795.9	783.5	772.5	764.1	758.2	756.3
57.5°	806.3	800.4	792.0	781.6	768.6	757.6	749.8	743.3	741.3
60°	777.1	771.9	762.1	753.0	740.0	729.0	720.6	714.1	712.1
62.5°	732.3	727.7	719.3	710.2	696.6	686.8	678.4	674.5	669.3
65°	672.5	669.3	660.9	649.8	640.1	630.3	621.9	619.3	616.1
67.5°	601.1	596.6	593.3	582.3	574.5	565.4	557.0	551.8	550.5
70°	516.7	514.8	511.5	501.2	496.6	488.8	483.0	478.4	477.1
72.5°	425.9	423.9	423.3	418.1	412.2	405.1	402.5	398.6	397.9
75°	331.1	329.8	331.1	327.2	325.2	323.3	322.0	322.0	320.0
77.5°	239.5	241.5	242.1	242.1	243.4	243.4	244.7	242.8	240.8
80°	162.9	164.9	164.2	165.5	164.9	169.4	166.2	168.8	166.2
82.5°	98.0	100.6	100.6	100.6	103.2	102.6	102.6	103.9	103.2
85°	48.0	48.7	48.0	47.4	50.6	50.0	50.0	49.3	50.0
87.5°	14.3	13.0	13.6	12.3	13.6	11.7	13.0	13.0	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)