

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: P197726

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197726
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.5 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



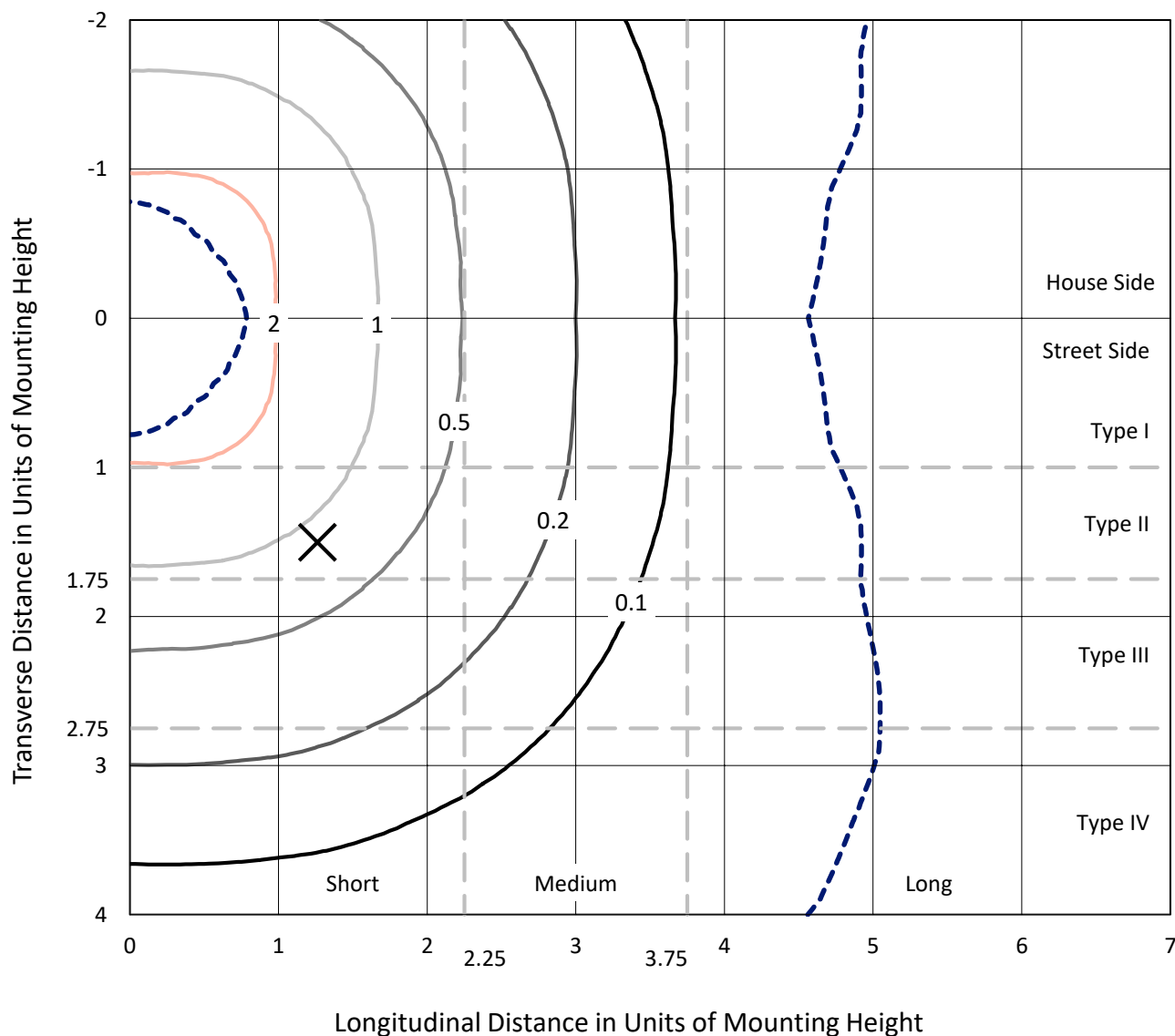
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

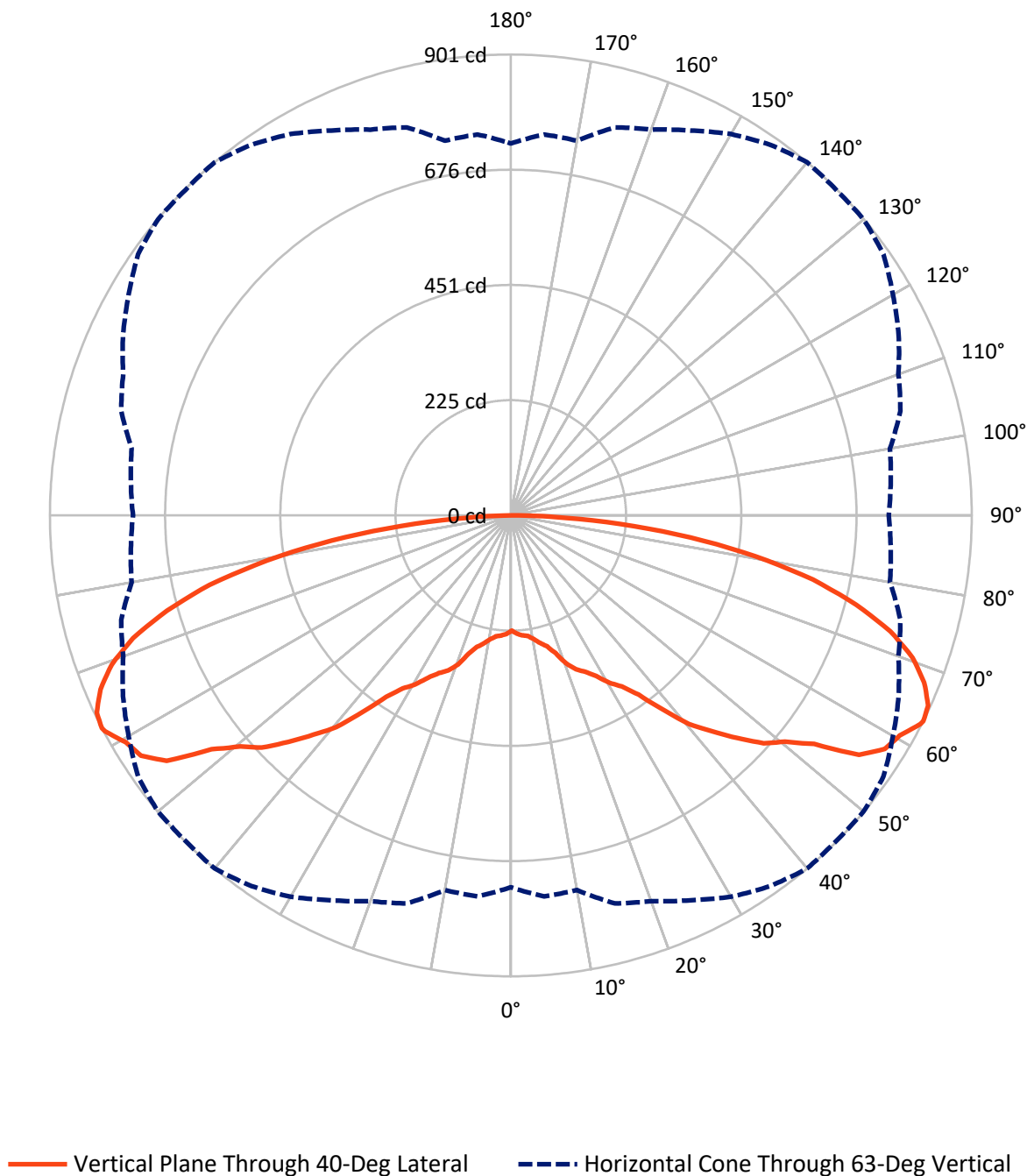


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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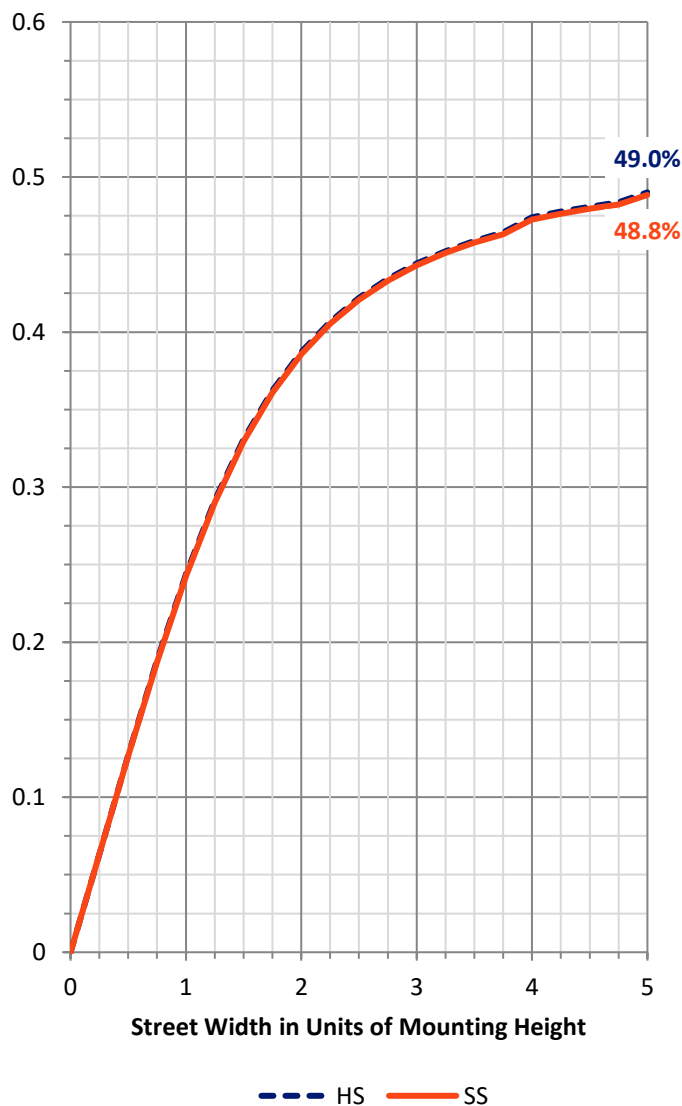
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1654.8	0.0	1654.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1654.8	0.0	1654.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	3309.5	0.0	3309.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.7	0.7
10°-20°	77.3	2.3
20°-30°	157.2	4.7
30°-40°	270.9	8.2
40°-50°	456.4	13.8
50°-60°	672.0	20.3
60°-70°	799.1	24.1
70°-80°	646.9	19.5
80°-90°	207.0	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°	3309.5	100.0
0°-180°	3309.5	100.0

Coefficient of Utilization

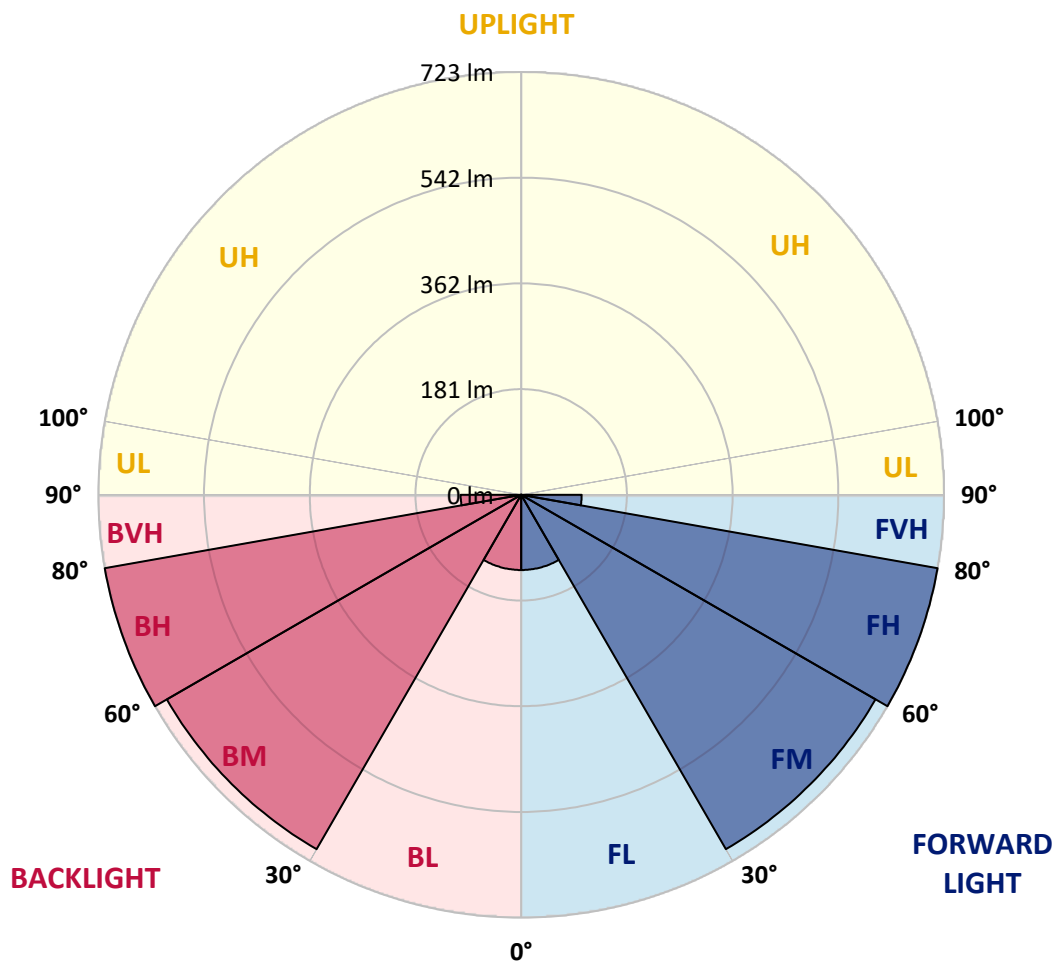


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

				Zone Rating/Lumen Limit		
Zone		Lumens	% Fixture	B	U	G
FL	(0°-30°)	128.6	3.9			
FM	(30°-60°)	699.6	21.1			
FH	(60°-80°)	723.0	21.8			G1/1800
FVH	(80°-90°)	103.5	3.1			G2/225
BL	(0°-30°)	128.6	3.9	B1/500		
BM	(30°-60°)	699.6	21.1	B1/1000		
BH	(60°-80°)	723.0	21.8	B2/1000		G1/1800
BVH	(80°-90°)	103.5	3.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	232.4	232.4	232.4	232.4	232.4	232.4	231.7	232.4	231.7	231.7	231.7
5°	236.9	236.9	236.9	236.9	236.2	236.2	235.6	235.6	235.6	234.9	235.6
7.5°	238.8	238.8	238.8	238.8	238.1	238.1	238.1	238.1	238.1	238.1	238.1
10°	243.3	243.3	243.9	244.5	245.8	245.8	245.8	246.5	245.8	245.8	245.8
12.5°	252.9	252.2	253.5	254.8	256.1	256.7	256.7	256.7	256.1	256.1	256.7
15°	266.3	265.0	265.7	266.3	266.9	267.6	267.6	266.9	265.7	265.7	265.7
17.5°	283.6	281.7	281.0	280.4	280.4	281.7	282.9	282.3	282.9	282.3	282.9
20°	304.1	302.8	302.8	302.8	303.4	306.0	308.6	309.8	309.2	307.9	309.8
22.5°	317.5	318.2	321.3	320.7	320.1	322.7	325.8	328.4	327.1	325.2	326.5
25°	332.3	332.3	336.7	338.6	336.7	336.7	338.0	339.9	338.6	337.4	338.6
27.5°	348.9	348.9	350.8	352.7	351.5	351.5	353.4	356.6	355.9	355.3	355.9
30°	368.7	366.2	364.2	367.4	370.7	371.3	373.2	378.3	379.6	378.9	380.3
32.5°	387.3	383.4	384.8	386.7	393.7	396.3	395.6	399.5	398.8	396.9	399.5
35°	405.2	409.7	412.2	416.1	418.7	421.8	421.8	428.9	430.2	428.3	430.2
37.5°	439.8	441.7	448.7	449.4	452.6	464.7	466.1	475.7	480.8	478.2	478.8
40°	487.2	486.5	491.6	499.3	505.7	521.1	525.6	531.9	536.4	534.5	537.1
42.5°	525.6	520.4	524.3	540.9	548.0	559.5	565.2	568.5	576.8	574.2	577.4
45°	553.1	555.0	560.1	576.8	581.3	590.9	604.3	610.1	620.9	617.7	619.7
47.5°	579.9	588.9	593.4	601.1	615.2	628.0	644.6	650.4	665.7	664.5	662.6
50°	615.2	622.2	627.3	633.1	652.3	673.4	687.5	690.0	695.2	691.4	697.8
52.5°	653.0	652.3	656.8	672.8	699.6	708.0	720.2	731.7	742.5	746.4	742.5
55°	702.9	686.9	705.5	728.5	740.0	759.8	789.3	805.3	826.4	829.7	823.2
57.5°	723.3	723.3	742.5	756.0	777.2	812.3	843.7	851.4	862.2	856.5	862.9
60°	720.8	745.1	745.1	768.8	803.4	834.8	846.3	859.1	873.8	873.2	873.2
62.5°	724.0	747.7	741.3	782.3	803.4	829.0	854.6	878.3	898.8	898.1	897.5
63°	727.2	747.7	743.9	785.4	802.7	830.3	861.0	884.7	901.3	900.0	900.6
65°	736.8	731.0	754.1	780.3	800.1	841.1	866.7	885.3	896.9	896.2	896.2
67.5°	718.9	705.5	738.1	748.4	786.1	822.6	842.4	863.6	871.8	871.8	870.6
70°	663.8	669.6	692.0	708.6	747.0	779.7	796.4	823.2	833.4	833.4	832.8
72.5°	608.1	617.7	633.1	656.8	693.3	718.9	738.8	763.1	776.5	775.8	775.8
75°	537.1	546.0	564.0	586.4	618.4	643.4	659.3	682.4	697.8	703.5	697.1
77.5°	457.1	459.6	476.3	499.3	527.5	544.8	569.1	591.5	604.3	603.6	601.7
80°	359.7	363.0	377.1	403.3	418.7	439.1	461.6	473.7	484.6	484.6	483.3
82.5°	248.4	255.4	269.5	286.8	302.8	320.7	332.9	345.0	354.0	353.4	351.5
85°	140.2	143.4	156.8	167.7	179.9	191.4	199.7	207.4	215.1	215.1	213.8
87.5°	42.3	37.8	45.5	49.9	56.3	62.1	65.9	73.6	78.7	73.0	73.0
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°	225.3	225.3	225.3	225.3	225.3	225.3	225.3	225.3
2.5°	232.4	232.4	232.4	232.4	232.4	232.4	232.4	232.4
5°	235.6	236.2	236.2	236.9	236.9	236.9	236.9	236.9
7.5°	238.1	238.1	238.1	238.1	238.8	238.8	238.8	238.8
10°	245.8	246.5	245.8	245.8	244.5	243.9	243.9	243.9
12.5°	256.7	257.3	257.3	256.1	254.8	253.5	252.9	252.2
15°	266.9	268.8	267.6	266.9	265.7	266.3	266.3	266.9
17.5°	282.9	283.6	281.7	280.4	279.8	281.0	282.3	282.9
20°	310.5	309.2	305.4	304.1	302.8	302.8	304.1	304.1
22.5°	327.8	324.6	322.0	320.7	320.7	320.7	318.8	316.2
25°	339.9	338.0	336.1	337.4	338.6	336.7	332.3	331.6
27.5°	356.6	352.7	352.1	351.5	352.1	350.8	350.1	347.6
30°	378.3	373.2	371.9	370.7	366.8	365.5	366.8	368.7
32.5°	398.8	395.6	396.9	394.4	387.3	384.8	386.0	385.4
35°	428.3	422.5	422.5	417.3	415.5	414.8	409.7	405.2
37.5°	475.0	467.3	465.4	453.9	448.7	450.0	443.0	437.9
40°	531.9	526.2	521.1	508.2	501.2	492.3	487.8	487.8
42.5°	569.7	565.9	558.8	549.9	542.2	526.8	521.1	524.3
45°	611.3	606.2	591.5	582.5	575.5	564.6	558.2	551.8
47.5°	653.6	646.5	629.3	617.7	601.1	597.9	590.9	581.9
50°	690.7	688.2	676.0	656.8	635.7	630.5	624.2	615.8
52.5°	736.2	720.8	710.6	702.2	678.6	661.9	653.0	656.8
55°	810.5	791.2	765.0	738.8	733.6	713.7	691.4	703.5
57.5°	853.3	842.4	822.6	780.9	760.5	747.0	732.3	721.4
60°	863.6	843.7	839.3	807.9	775.2	747.0	752.8	727.2
62.5°	883.4	856.5	831.5	806.6	786.8	748.4	747.0	733.6
63°	889.8	862.9	836.7	806.6	788.7	752.8	745.8	738.8
65°	888.5	865.5	845.6	806.6	779.7	765.6	731.0	747.0
67.5°	864.2	845.0	821.9	795.0	750.2	739.4	715.1	718.2
70°	825.2	800.1	778.4	753.5	717.6	692.6	677.9	665.7
72.5°	764.3	741.9	718.9	695.9	663.8	633.8	623.5	610.1
75°	683.7	661.9	640.8	619.1	588.9	562.1	551.1	541.5
77.5°	591.5	572.9	542.9	522.3	505.1	476.3	466.1	455.8
80°	471.8	462.8	441.0	414.2	405.2	377.1	369.3	355.9
82.5°	343.1	334.2	316.8	298.3	287.4	272.7	259.9	251.0
85°	209.3	199.7	190.8	174.1	167.7	156.8	146.6	141.5
87.5°	75.6	67.8	60.8	53.1	49.3	41.6	40.3	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)