

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: P197920

Luminaire Tested: **TT-C1-LED-E1-WQ-SG-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
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-SG-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.3 lumens
Efficiency: N/A
Efficacy: 113.3 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

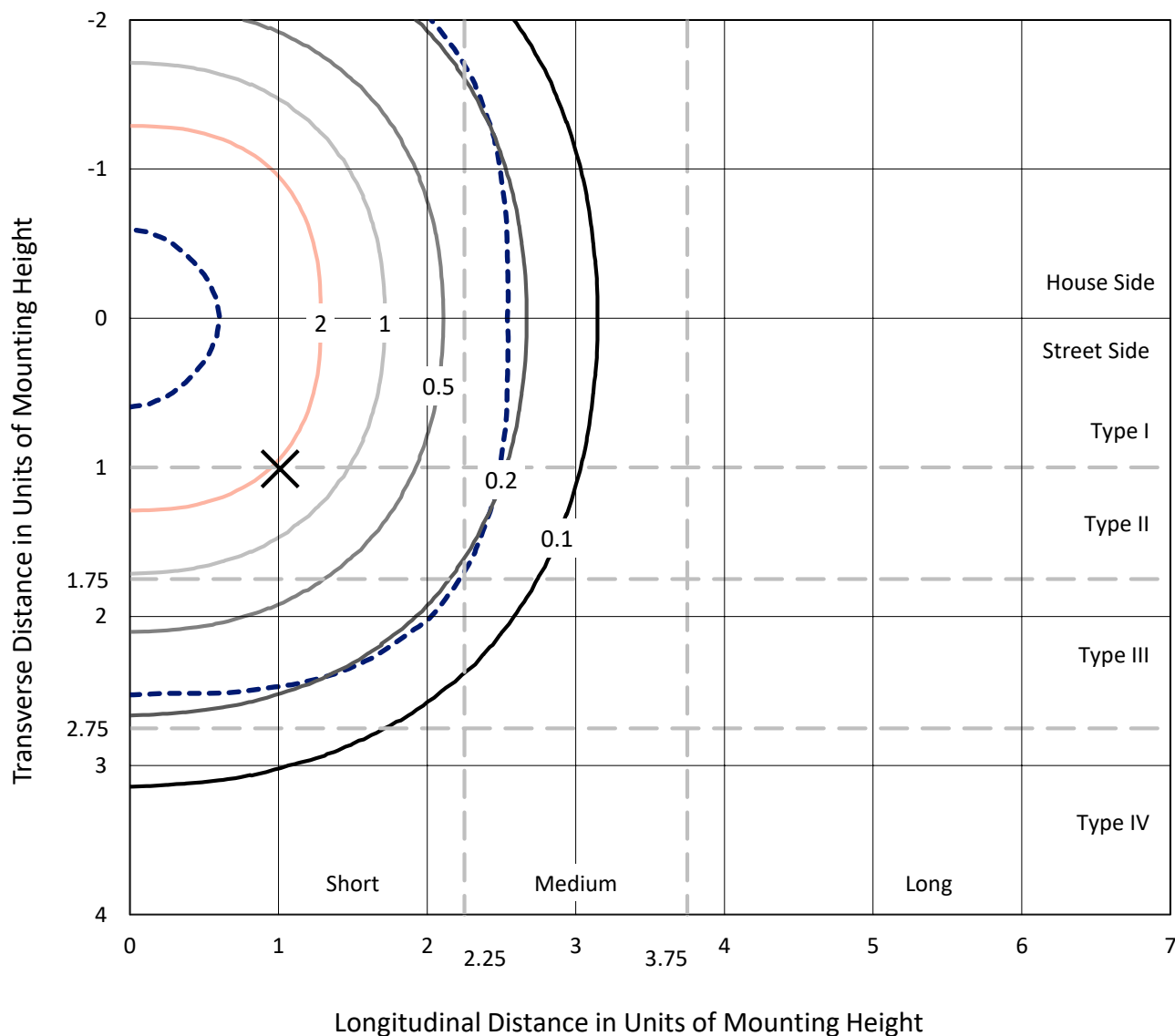


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

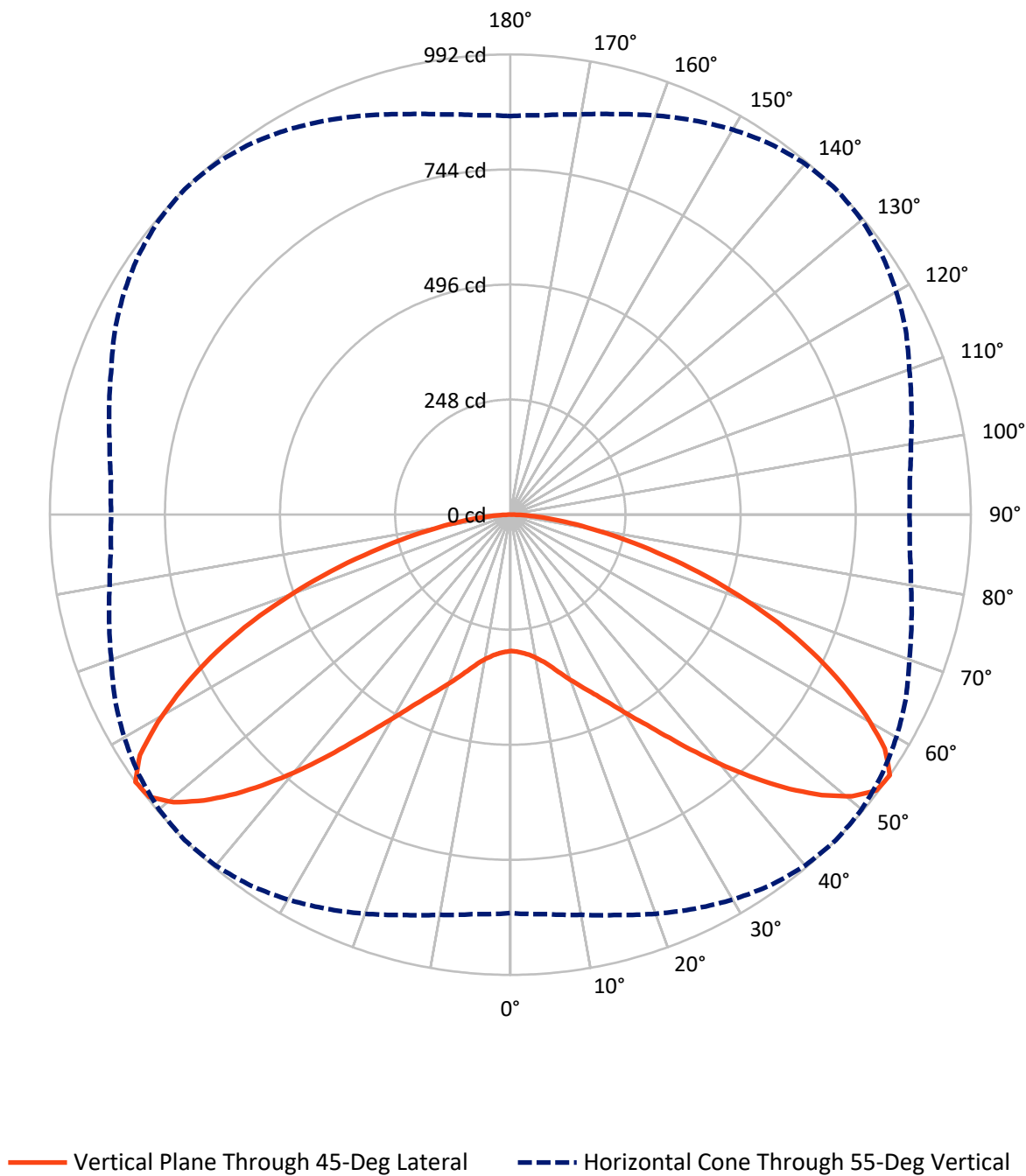


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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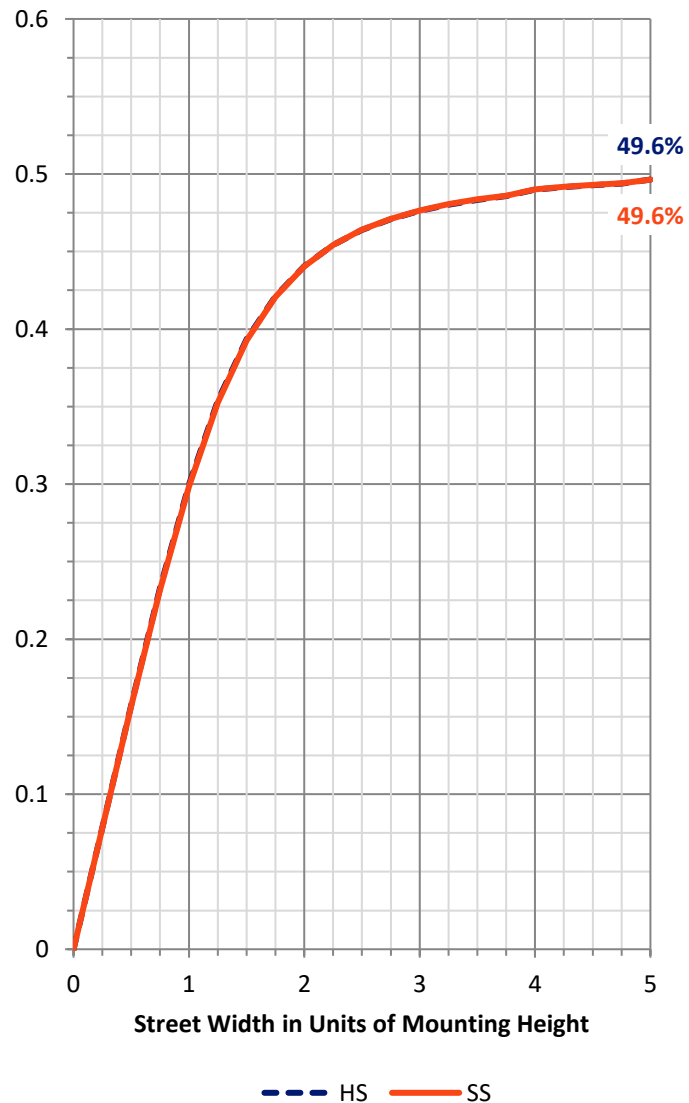
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1586.2	0.0	1586.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1586.2	0.0	1586.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3172.3	0.0	3172.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.9
10°-20°	98.5	3.1
20°-30°	200.5	6.3
30°-40°	366.2	11.5
40°-50°	621.8	19.6
50°-60°	809.8	25.5
60°-70°	654.9	20.6
70°-80°	321.8	10.1
80°-90°	69.7	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°	3172.3	100.0
0°-180°	3172.3	100.0

Coefficient of Utilization



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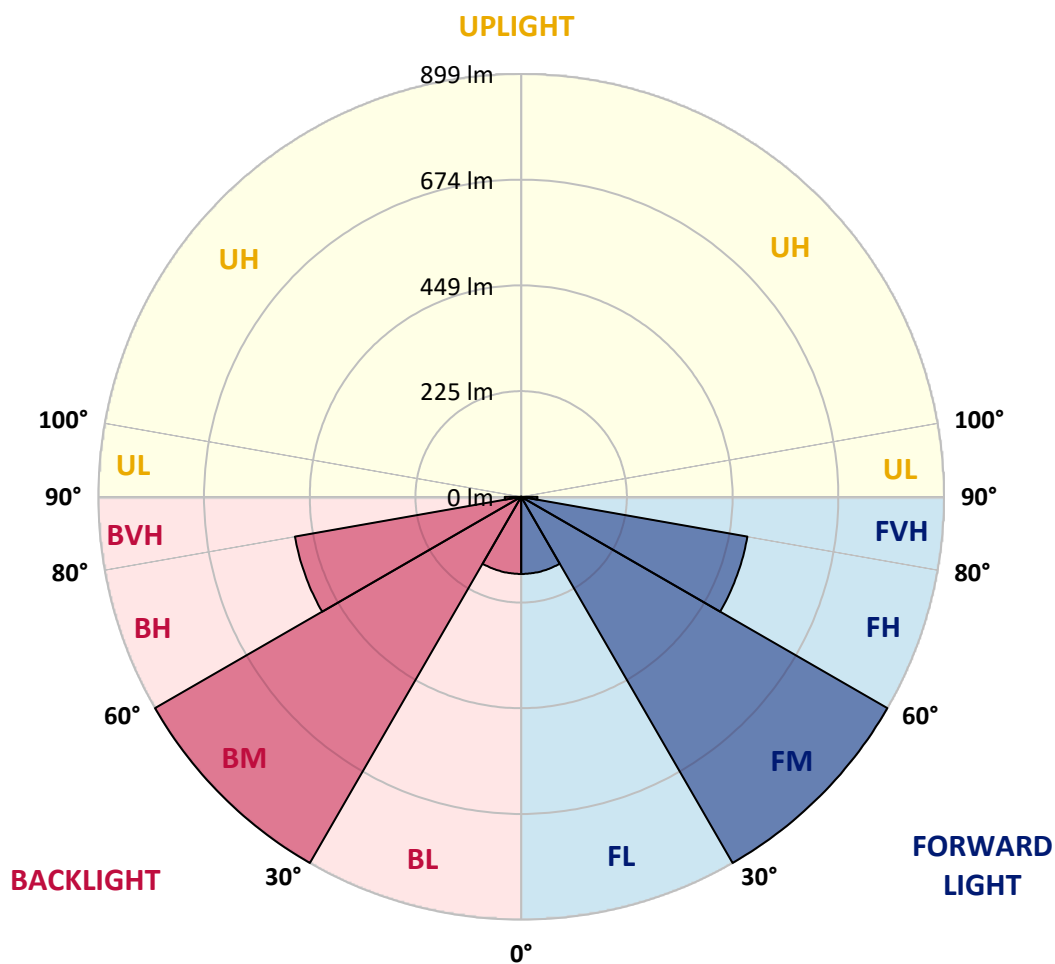
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	164.0	5.2			
FM	(30°-60°)	898.9	28.3			
FH	(60°-80°)	488.4	15.4			G0/660
FVH	(80°-90°)	34.8	1.1			G1/100
BL	(0°-30°)	164.0	5.2	B1/500		
BM	(30°-60°)	898.9	28.3	B1/1000		
BH	(60°-80°)	488.4	15.4	B1/500		G0/660
BVH	(80°-90°)	34.8	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°	50°
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	295.2	295.2	295.2	295.2	295.2	295.2	295.9	295.9	295.9	295.9	295.9
5°	299.1	299.1	299.1	299.8	299.8	299.8	299.8	299.8	299.8	299.8	299.8
7.5°	305.0	304.3	305.0	305.0	305.0	305.6	305.6	305.0	305.6	305.6	305.6
10°	313.4	312.8	313.4	313.4	313.4	314.1	314.1	314.1	314.1	314.7	314.7
12.5°	325.7	325.1	325.7	326.4	325.7	326.4	326.4	326.4	326.4	326.4	326.4
15°	341.3	340.7	341.3	342.0	341.3	342.6	342.6	342.0	342.0	342.6	342.6
17.5°	360.1	358.8	359.5	360.1	360.1	361.4	361.4	360.8	361.4	362.1	361.4
20°	379.6	378.3	379.0	380.9	380.9	381.5	382.8	382.2	382.8	383.5	382.8
22.5°	401.0	400.4	401.0	403.0	403.0	403.6	405.6	405.6	405.6	406.2	405.6
25°	424.4	423.7	424.4	426.3	426.3	427.6	430.2	430.2	430.9	431.5	430.9
27.5°	451.6	451.0	452.3	454.2	454.9	456.8	460.1	460.7	461.4	462.0	460.7
30°	483.4	482.1	484.1	487.3	488.6	491.2	495.1	496.4	497.0	499.0	497.7
32.5°	519.8	518.5	521.1	525.0	526.9	530.8	536.0	537.3	539.2	540.5	538.6
35°	562.6	561.9	564.5	570.4	573.6	578.2	585.3	587.2	588.5	591.1	588.5
37.5°	610.0	609.3	613.8	620.3	626.2	633.3	641.1	644.3	646.3	649.5	646.3
40°	662.5	661.9	667.7	675.5	682.6	691.7	701.4	706.0	709.9	713.1	709.2
42.5°	716.4	716.4	723.5	731.9	742.3	753.4	764.4	769.6	776.1	778.0	773.5
45°	768.3	768.9	776.1	786.5	801.4	815.7	828.0	834.5	841.6	843.6	837.7
47.5°	817.6	818.2	824.7	838.4	855.2	871.5	886.4	895.5	902.6	903.3	898.7
50°	857.8	860.4	868.9	881.2	898.7	915.6	933.8	945.4	952.6	954.5	950.0
52.5°	873.4	877.9	887.7	903.3	923.4	940.9	961.0	975.9	984.4	987.6	983.7
55°	859.1	864.3	876.0	893.5	915.6	937.6	958.4	975.9	987.6	992.2	988.3
57.5°	827.3	828.0	839.7	857.2	877.3	900.0	920.1	936.3	947.4	951.9	951.3
60°	772.2	772.2	783.2	800.1	815.7	839.0	855.9	868.2	876.0	881.2	879.9
62.5°	698.2	698.2	707.9	725.5	741.0	761.1	777.4	790.3	795.5	801.4	802.7
65°	615.8	615.8	624.9	642.4	656.7	674.8	690.4	702.7	707.9	715.1	713.8
67.5°	528.2	527.5	536.0	550.9	564.5	581.4	596.3	608.0	613.8	622.3	616.4
70°	438.0	438.0	445.1	456.8	466.6	483.4	497.7	509.4	513.9	521.1	517.8
72.5°	352.3	351.7	357.5	366.6	374.4	389.3	397.8	410.7	414.6	424.4	419.2
75°	275.1	273.8	278.4	284.9	290.1	299.8	306.3	316.7	319.9	326.4	323.8
77.5°	207.0	206.3	208.3	212.8	216.7	224.5	227.1	232.3	234.9	241.4	236.2
80°	148.6	146.6	148.6	151.2	152.5	158.3	159.0	160.9	162.2	166.8	161.6
82.5°	99.9	97.3	98.6	100.6	100.6	103.8	104.5	103.8	106.4	107.7	105.1
85°	57.1	55.2	55.8	57.1	56.5	58.4	58.4	57.8	59.7	59.7	58.4
87.5°	18.8	17.5	18.2	18.8	18.8	19.5	20.1	19.5	20.8	20.8	19.5
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°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
2.5°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9
5°	299.8	299.8	299.8	299.8	299.8	299.1	299.1	299.1
7.5°	305.6	305.6	305.6	305.6	305.6	305.0	305.0	305.0
10°	314.7	314.1	314.1	314.1	314.1	313.4	314.1	313.4
12.5°	326.4	327.0	327.0	326.4	327.0	325.7	325.7	325.7
15°	342.6	342.0	342.0	342.0	342.0	341.3	341.3	341.3
17.5°	360.8	360.8	360.1	360.1	359.5	358.8	358.8	358.8
20°	382.2	381.5	380.9	380.2	379.6	378.3	377.7	377.7
22.5°	404.3	403.6	403.0	402.3	401.7	400.4	399.1	399.1
25°	428.9	427.6	427.0	425.7	424.4	423.1	422.4	421.8
27.5°	458.8	457.5	455.5	453.6	451.0	450.3	449.0	449.0
30°	494.5	492.5	489.9	486.7	484.1	481.5	480.2	479.5
32.5°	536.0	533.4	528.8	525.0	520.4	517.8	515.9	514.6
35°	584.6	580.8	575.6	569.7	563.9	559.3	556.1	556.1
37.5°	641.8	635.9	628.1	621.0	612.6	607.4	603.5	600.9
40°	704.0	695.6	685.9	676.8	667.1	659.9	654.1	654.7
42.5°	765.7	758.6	746.9	735.8	723.5	713.8	706.6	706.0
45°	830.6	821.5	807.2	792.9	778.7	767.0	758.6	757.3
47.5°	890.9	881.2	864.3	846.8	831.2	818.2	809.2	807.9
50°	940.2	928.6	911.0	892.2	875.4	861.1	851.3	848.7
52.5°	972.0	959.1	940.2	917.5	899.4	883.1	871.5	868.2
55°	977.2	960.4	940.2	914.9	894.8	876.6	863.7	859.8
57.5°	941.5	923.4	905.2	883.1	863.0	843.6	833.2	828.0
60°	872.1	857.8	842.9	822.8	806.6	788.4	780.0	777.4
62.5°	792.3	780.0	766.3	745.6	731.9	715.7	707.9	704.7
65°	706.6	692.4	679.4	662.5	647.6	634.0	622.9	621.6
67.5°	611.9	597.0	585.9	571.0	556.1	543.1	536.0	532.1
70°	512.0	499.6	488.6	472.4	462.7	450.3	445.1	441.2
72.5°	412.7	405.6	391.9	381.5	370.5	360.8	357.5	353.6
75°	319.3	310.8	300.4	293.9	285.5	280.3	277.7	275.1
77.5°	234.2	227.1	221.3	218.7	214.8	209.6	207.6	205.7
80°	162.2	159.0	155.1	154.4	151.8	147.9	147.3	146.6
82.5°	105.1	103.2	101.9	101.9	100.6	98.0	97.3	97.3
85°	58.4	57.8	58.4	57.8	56.5	55.2	55.2	55.2
87.5°	19.5	19.5	20.1	20.8	18.8	18.8	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)