

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: P197919

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197919
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-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3246 lumens
Efficiency: N/A
Efficacy: 115.9 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

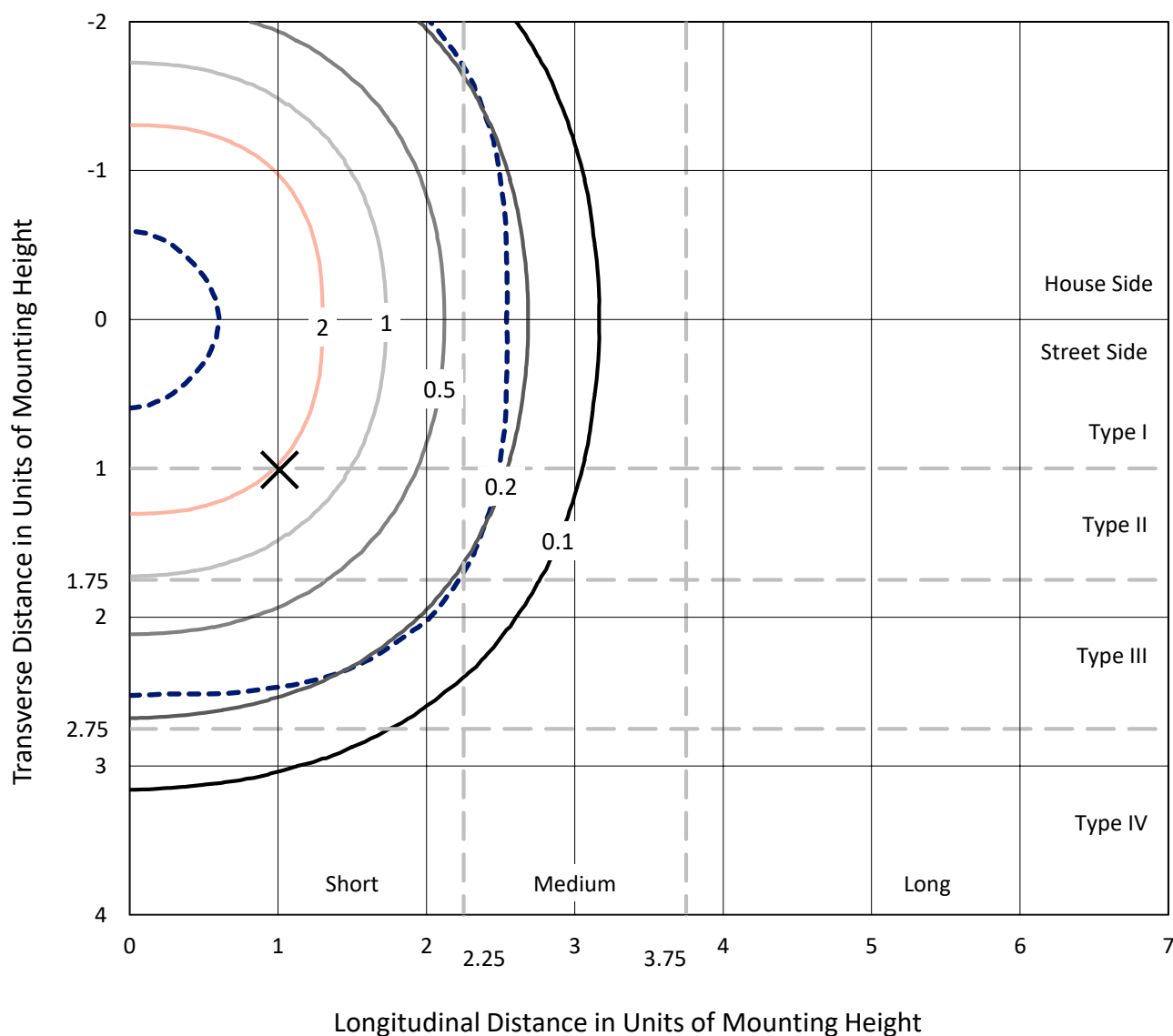


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

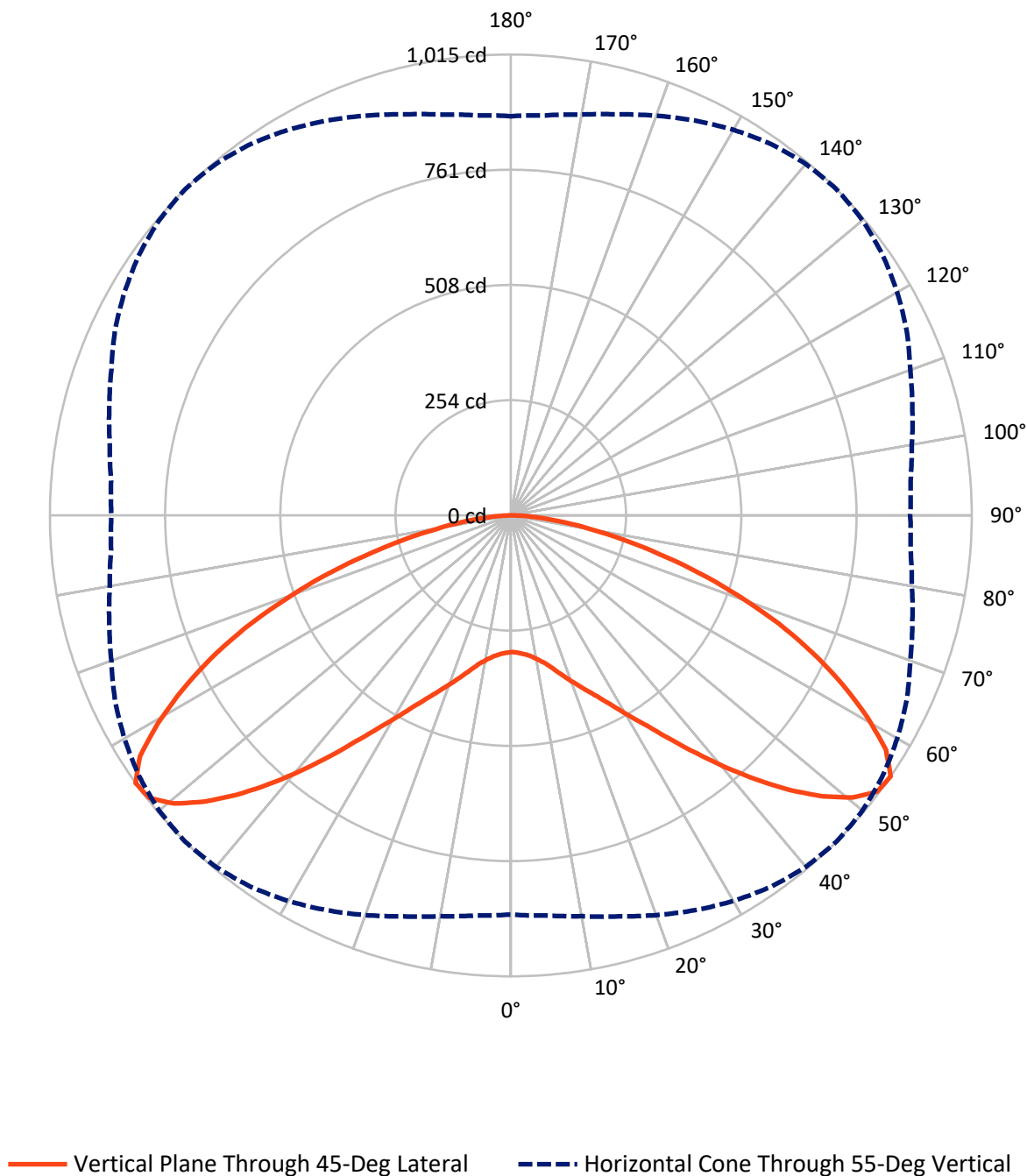


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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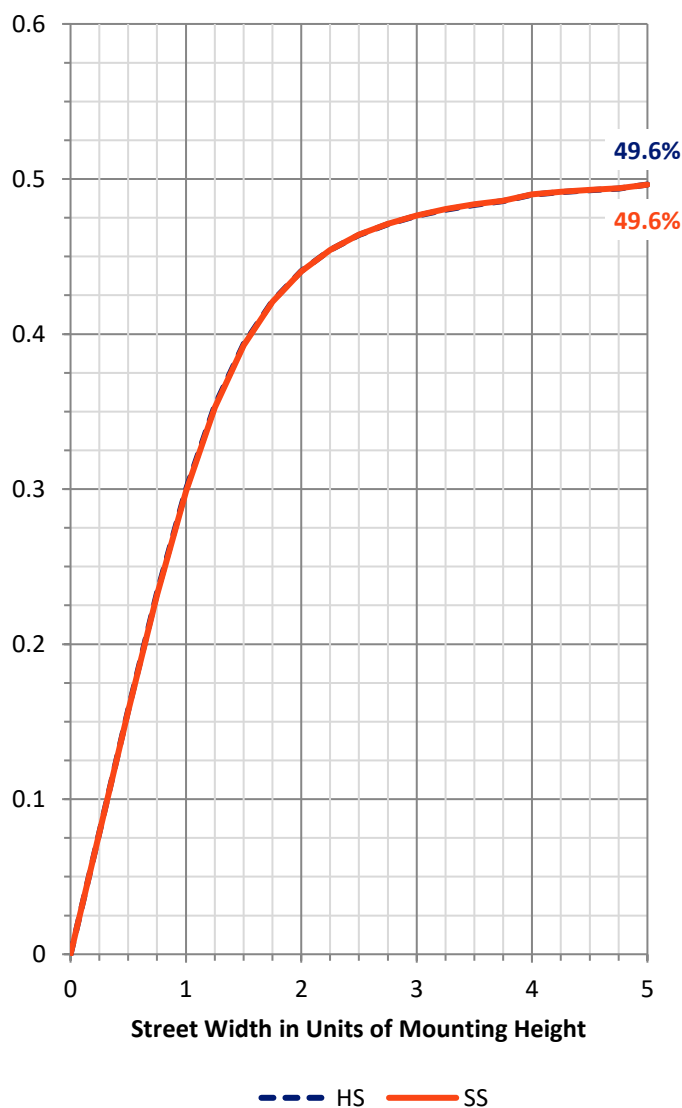
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.0	0.0	1623.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1623.0	0.0	1623.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3246.0	0.0	3246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.9
10°-20°	100.8	3.1
20°-30°	205.2	6.3
30°-40°	374.7	11.5
40°-50°	636.2	19.6
50°-60°	828.6	25.5
60°-70°	670.1	20.6
70°-80°	329.3	10.1
80°-90°	71.3	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°	3246.0	100.0
0°-180°	3246.0	100.0

Coefficient of Utilization



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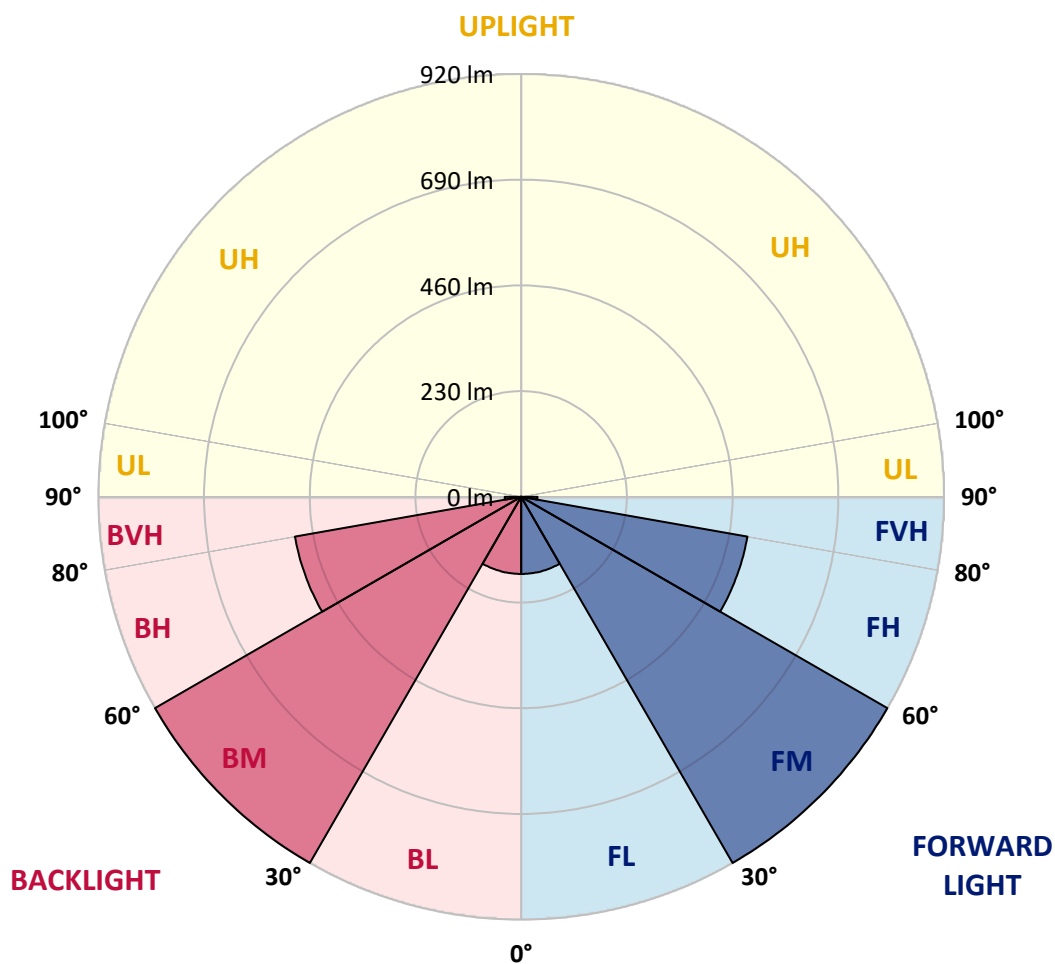
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.8	5.2			
FM	(30°-60°)	919.8	28.3			
FH	(60°-80°)	499.7	15.4			G0/660
FVH	(80°-90°)	35.6	1.1			G1/100
BL	(0°-30°)	167.8	5.2	B1/500		
BM	(30°-60°)	919.8	28.3	B1/1000		
BH	(60°-80°)	499.7	15.4	B1/500		G0/660
BVH	(80°-90°)	35.6	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°	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8
2.5°	302.1	302.1	302.1	302.1	302.1	302.1	302.8	302.8	302.8	302.8	302.8
5°	306.1	306.1	306.1	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7
7.5°	312.1	311.4	312.1	312.1	312.1	312.7	312.7	312.1	312.7	312.7	312.7
10°	320.7	320.0	320.7	320.7	320.7	321.4	321.4	321.4	321.4	322.0	322.0
12.5°	333.3	332.6	333.3	334.0	333.3	334.0	334.0	334.0	334.0	334.0	334.0
15°	349.2	348.6	349.2	349.9	349.2	350.6	350.6	349.9	349.9	350.6	350.6
17.5°	368.5	367.2	367.8	368.5	368.5	369.8	369.8	369.2	369.8	370.5	369.8
20°	388.4	387.1	387.7	389.7	389.7	390.4	391.7	391.1	391.7	392.4	391.7
22.5°	410.3	409.7	410.3	412.3	412.3	413.0	415.0	415.0	415.0	415.6	415.0
25°	434.2	433.6	434.2	436.2	436.2	437.5	440.2	440.2	440.9	441.5	440.9
27.5°	462.1	461.4	462.8	464.8	465.4	467.4	470.7	471.4	472.1	472.7	471.4
30°	494.6	493.3	495.3	498.6	500.0	502.6	506.6	507.9	508.6	510.6	509.2
32.5°	531.8	530.5	533.1	537.1	539.1	543.1	548.4	549.7	551.7	553.1	551.1
35°	575.6	575.0	577.6	583.6	586.9	591.6	598.9	600.9	602.2	604.9	602.2
37.5°	624.1	623.4	628.1	634.7	640.7	648.0	656.0	659.3	661.3	664.6	661.3
40°	677.9	677.2	683.2	691.2	698.5	707.8	717.7	722.4	726.4	729.7	725.7
42.5°	733.0	733.0	740.3	748.9	759.6	770.8	782.1	787.4	794.1	796.1	791.4
45°	786.1	786.8	794.1	804.7	820.0	834.6	847.2	853.8	861.1	863.1	857.2
47.5°	836.6	837.2	843.9	857.8	875.1	891.7	907.0	916.2	923.6	924.2	919.6
50°	877.7	880.4	889.0	901.6	919.6	936.8	955.4	967.4	974.7	976.7	972.0
52.5°	893.7	898.3	908.3	924.2	944.8	962.7	983.3	998.6	1007.2	1010.5	1006.5
55°	879.1	884.4	896.3	914.3	936.8	959.4	980.6	998.6	1010.5	1015.2	1011.2
57.5°	846.5	847.2	859.1	877.1	897.7	920.9	941.5	958.1	969.4	974.0	973.3
60°	790.1	790.1	801.4	818.6	834.6	858.5	875.7	888.4	896.3	901.6	900.3
62.5°	714.4	714.4	724.4	742.3	758.2	778.8	795.4	808.7	814.0	820.0	821.3
65°	630.1	630.1	639.4	657.3	671.9	690.5	706.4	719.1	724.4	731.7	730.3
67.5°	540.5	539.8	548.4	563.7	577.6	594.9	610.2	622.1	628.1	636.7	630.7
70°	448.2	448.2	455.5	467.4	477.4	494.6	509.2	521.2	525.8	533.1	529.8
72.5°	360.5	359.9	365.8	375.1	383.1	398.4	407.0	420.3	424.3	434.2	428.9
75°	281.5	280.2	284.8	291.5	296.8	306.7	313.4	324.0	327.3	334.0	331.3
77.5°	211.8	211.1	213.1	217.8	221.8	229.7	232.4	237.7	240.3	247.0	241.7
80°	152.0	150.1	152.0	154.7	156.0	162.0	162.7	164.7	166.0	170.6	165.3
82.5°	102.2	99.6	100.9	102.9	102.9	106.2	106.9	106.2	108.9	110.2	107.6
85°	58.4	56.4	57.1	58.4	57.8	59.8	59.8	59.1	61.1	61.1	59.8
87.5°	19.3	17.9	18.6	19.3	19.3	19.9	20.6	19.9	21.2	21.2	19.9
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°	300.8	300.8	300.8	300.8	300.8	300.8	300.8	300.8
2.5°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
5°	306.7	306.7	306.7	306.7	306.7	306.1	306.1	306.1
7.5°	312.7	312.7	312.7	312.7	312.7	312.1	312.1	312.1
10°	322.0	321.4	321.4	321.4	321.4	320.7	321.4	320.7
12.5°	334.0	334.6	334.6	334.0	334.6	333.3	333.3	333.3
15°	350.6	349.9	349.9	349.9	349.9	349.2	349.2	349.2
17.5°	369.2	369.2	368.5	368.5	367.8	367.2	367.2	367.2
20°	391.1	390.4	389.7	389.1	388.4	387.1	386.4	386.4
22.5°	413.6	413.0	412.3	411.6	411.0	409.7	408.3	408.3
25°	438.9	437.5	436.9	435.5	434.2	432.9	432.2	431.6
27.5°	469.4	468.1	466.1	464.1	461.4	460.8	459.5	459.5
30°	505.9	503.9	501.3	498.0	495.3	492.6	491.3	490.7
32.5°	548.4	545.8	541.1	537.1	532.5	529.8	527.8	526.5
35°	598.2	594.2	588.9	582.9	577.0	572.3	569.0	569.0
37.5°	656.6	650.7	642.7	635.4	626.8	621.5	617.5	614.8
40°	720.4	711.8	701.8	692.5	682.5	675.2	669.3	669.9
42.5°	783.5	776.2	764.2	752.9	740.3	730.3	723.0	722.4
45°	849.9	840.6	826.0	811.3	796.7	784.8	776.2	774.8
47.5°	911.6	901.6	884.4	866.5	850.5	837.2	827.9	826.6
50°	962.1	950.1	932.2	912.9	895.7	881.1	871.1	868.4
52.5°	994.6	981.3	962.1	938.8	920.2	903.6	891.7	888.4
55°	999.9	982.6	962.1	936.2	915.6	897.0	883.7	879.7
57.5°	963.4	944.8	926.2	903.6	883.0	863.1	852.5	847.2
60°	892.3	877.7	862.5	841.9	825.3	806.7	798.1	795.4
62.5°	810.7	798.1	784.1	762.9	748.9	732.3	724.4	721.0
65°	723.0	708.4	695.2	677.9	662.6	648.7	637.4	636.1
67.5°	626.1	610.8	599.5	584.3	569.0	555.7	548.4	544.4
70°	523.9	511.2	500.0	483.4	473.4	460.8	455.5	451.5
72.5°	422.3	415.0	401.0	390.4	379.1	369.2	365.8	361.9
75°	326.7	318.0	307.4	300.8	292.1	286.8	284.2	281.5
77.5°	239.7	232.4	226.4	223.8	219.8	214.5	212.5	210.5
80°	166.0	162.7	158.7	158.0	155.4	151.4	150.7	150.1
82.5°	107.6	105.6	104.2	104.2	102.9	100.3	99.6	99.6
85°	59.8	59.1	59.8	59.1	57.8	56.4	56.4	56.4
87.5°	19.9	19.9	20.6	21.2	19.3	19.3	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)