

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: P197918

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197918
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
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3426.3 lumens
Efficiency: N/A
Efficacy: 122.4 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



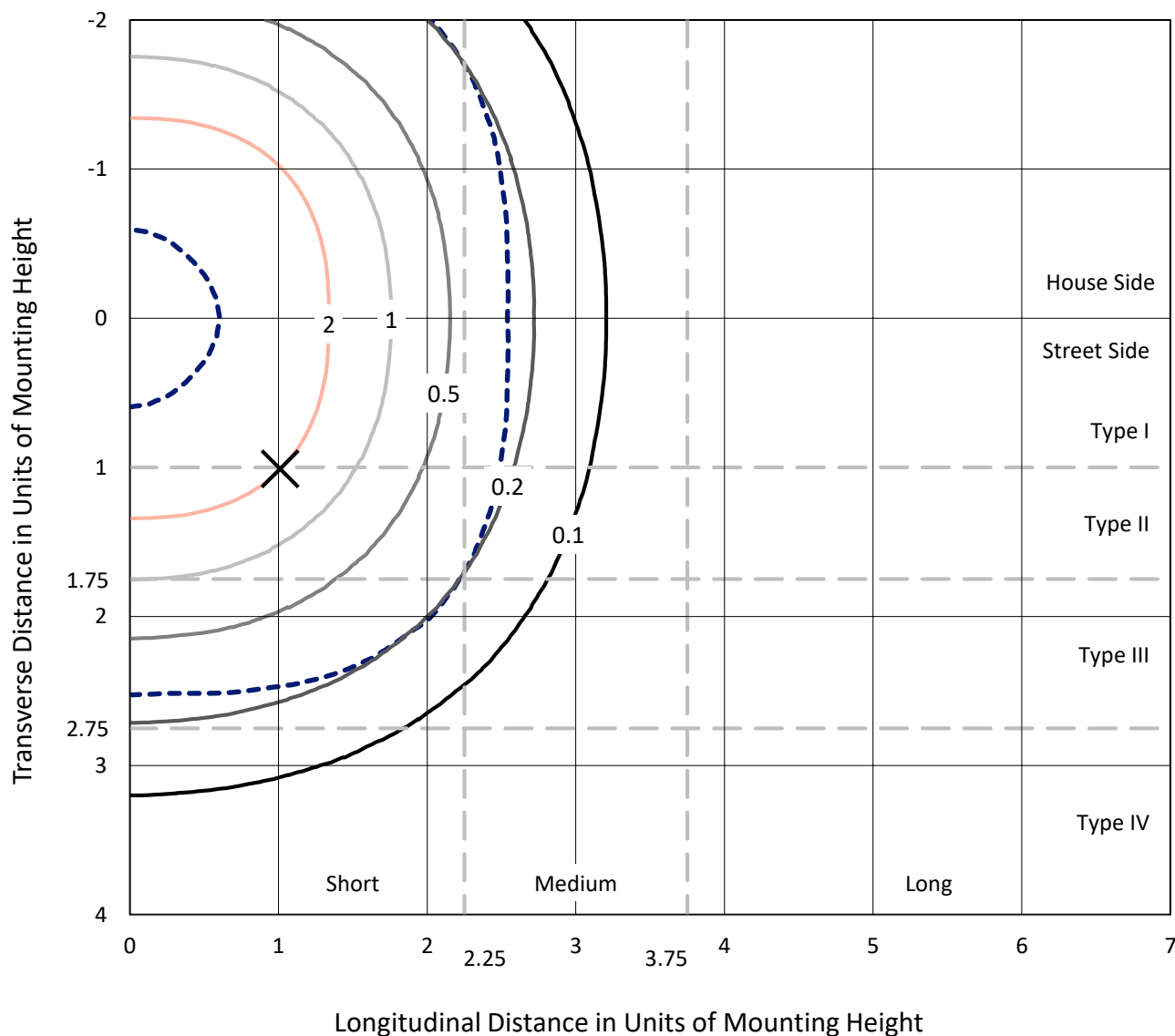
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

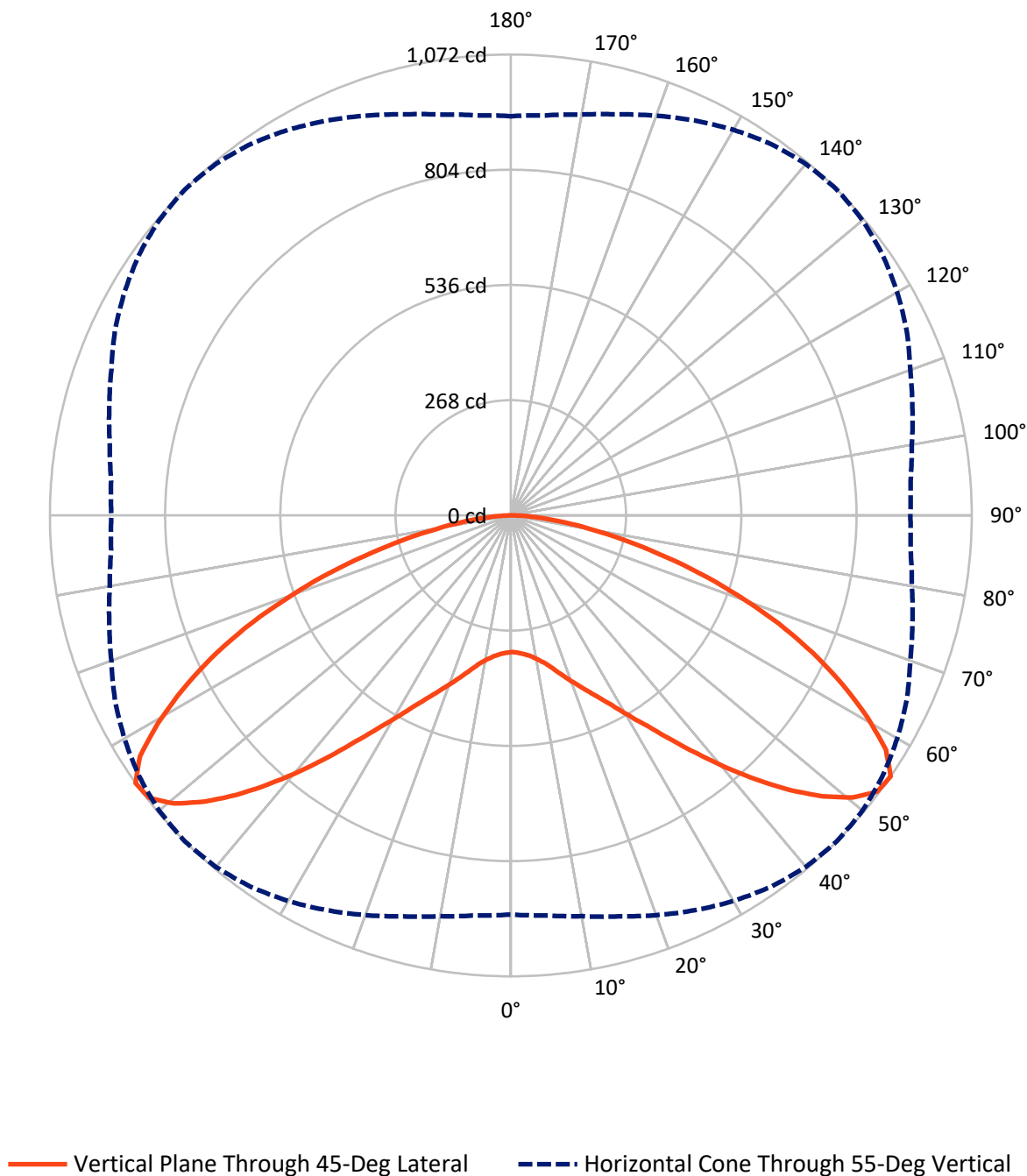


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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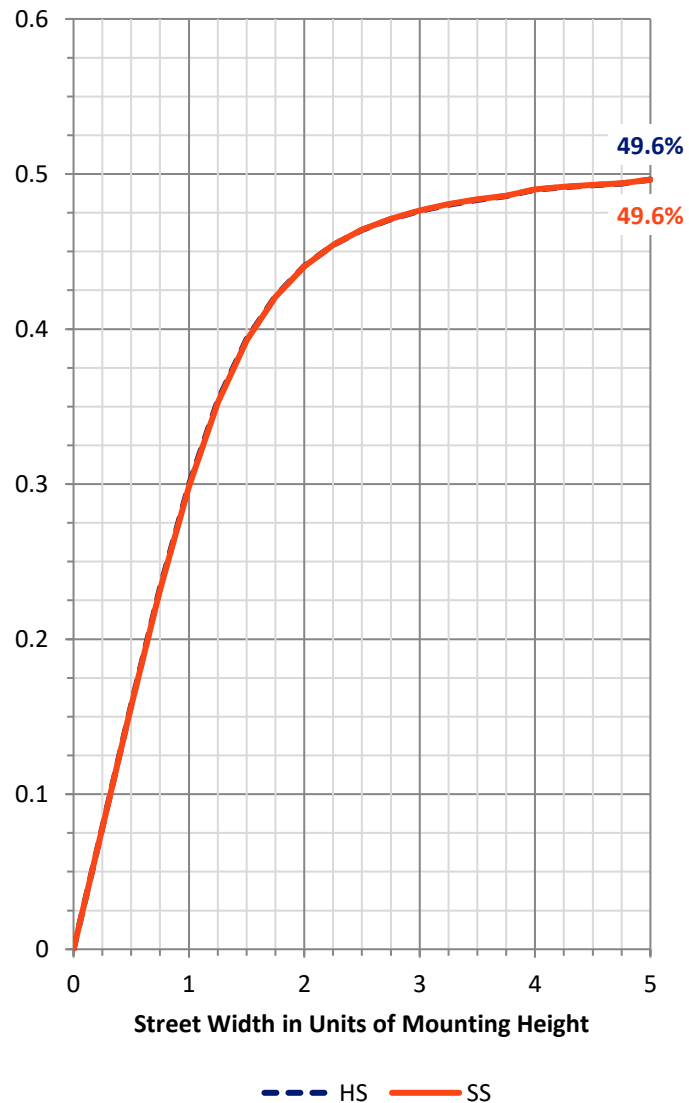
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1713.2	0.0	1713.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1713.2	0.0	1713.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3426.3	0.0	3426.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	0.9
10°-20°	106.4	3.1
20°-30°	216.6	6.3
30°-40°	395.5	11.5
40°-50°	671.6	19.6
50°-60°	874.6	25.5
60°-70°	707.4	20.6
70°-80°	347.6	10.1
80°-90°	75.2	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°	3426.3	100.0
0°-180°	3426.3	100.0

Coefficient of Utilization



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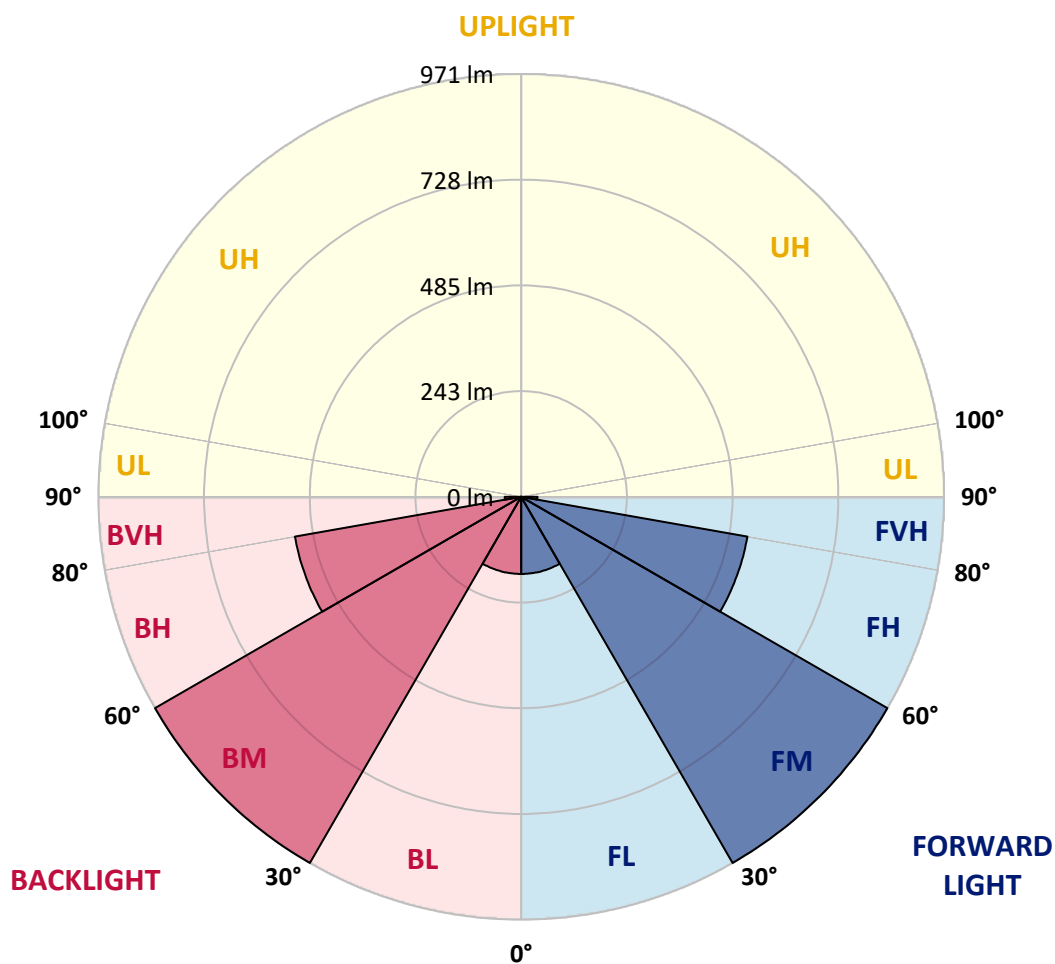
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.2	5.2			
FM	(30°-60°)	970.9	28.3			
FH	(60°-80°)	527.5	15.4			G0/660
FVH	(80°-90°)	37.6	1.1			G1/100
BL	(0°-30°)	177.2	5.2	B1/500		
BM	(30°-60°)	970.9	28.3	B1/1000		
BH	(60°-80°)	527.5	15.4	B2/1000		G0/660
BVH	(80°-90°)	37.6	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
2.5°	318.9	318.9	318.9	318.9	318.9	318.9	319.6	319.6	319.6	319.6	319.6
5°	323.1	323.1	323.1	323.8	323.8	323.8	323.8	323.8	323.8	323.8	323.8
7.5°	329.4	328.7	329.4	329.4	329.4	330.1	330.1	329.4	330.1	330.1	330.1
10°	338.5	337.8	338.5	338.5	338.5	339.2	339.2	339.2	339.2	339.9	339.9
12.5°	351.8	351.1	351.8	352.5	351.8	352.5	352.5	352.5	352.5	352.5	352.5
15°	368.6	367.9	368.6	369.3	368.6	370.0	370.0	369.3	369.3	370.0	370.0
17.5°	389.0	387.6	388.3	389.0	389.0	390.4	390.4	389.7	390.4	391.1	390.4
20°	410.0	408.6	409.3	411.4	411.4	412.1	413.5	412.8	413.5	414.2	413.5
22.5°	433.1	432.4	433.1	435.2	435.2	435.9	438.0	438.0	438.0	438.7	438.0
25°	458.3	457.6	458.3	460.5	460.5	461.9	464.7	464.7	465.4	466.1	465.4
27.5°	487.8	487.1	488.5	490.6	491.3	493.4	496.9	497.6	498.3	499.0	497.6
30°	522.1	520.7	522.8	526.3	527.7	530.5	534.7	536.1	536.8	538.9	537.5
32.5°	561.4	560.0	562.8	567.0	569.1	573.3	578.9	580.3	582.4	583.8	581.7
35°	607.6	606.9	609.7	616.0	619.5	624.4	632.2	634.3	635.7	638.5	635.7
37.5°	658.8	658.1	663.0	670.0	676.3	684.0	692.4	695.9	698.0	701.5	698.0
40°	715.6	714.9	721.2	729.6	737.3	747.1	757.6	762.5	766.7	770.2	766.0
42.5°	773.7	773.7	781.4	790.5	801.8	813.7	825.6	831.2	838.2	840.3	835.4
45°	829.8	830.5	838.2	849.4	865.5	881.0	894.3	901.3	909.0	911.1	904.8
47.5°	883.1	883.8	890.8	905.5	923.7	941.2	957.3	967.2	974.9	975.6	970.7
50°	926.5	929.3	938.4	951.7	970.7	988.9	1008.5	1021.1	1028.8	1030.9	1026.0
52.5°	943.3	948.2	958.7	975.6	997.3	1016.2	1037.9	1054.1	1063.2	1066.7	1062.5
55°	927.9	933.5	946.1	965.1	988.9	1012.7	1035.1	1054.1	1066.7	1071.6	1067.4
57.5°	893.6	894.3	906.9	925.8	947.5	972.1	993.8	1011.3	1023.2	1028.1	1027.4
60°	834.0	834.0	845.9	864.1	881.0	906.2	924.4	937.7	946.1	951.7	950.3
62.5°	754.1	754.1	764.6	783.5	800.4	822.1	839.6	853.6	859.2	865.5	866.9
65°	665.1	665.1	674.9	693.8	709.2	728.9	745.7	759.0	764.6	772.3	770.9
67.5°	570.5	569.8	578.9	595.0	609.7	628.0	644.1	656.7	663.0	672.1	665.8
70°	473.1	473.1	480.8	493.4	503.9	522.1	537.5	550.2	555.1	562.8	559.3
72.5°	380.6	379.9	386.2	396.0	404.4	420.5	429.6	443.6	447.8	458.3	452.7
75°	297.2	295.8	300.7	307.7	313.3	323.8	330.8	342.0	345.5	352.5	349.7
77.5°	223.6	222.9	225.0	229.9	234.1	242.5	245.3	250.9	253.7	260.7	255.1
80°	160.5	158.4	160.5	163.3	164.7	171.0	171.7	173.8	175.2	180.1	174.5
82.5°	107.9	105.1	106.5	108.6	108.6	112.1	112.8	112.1	114.9	116.3	113.5
85°	61.7	59.6	60.3	61.7	61.0	63.1	63.1	62.4	64.5	64.5	63.1
87.5°	20.3	18.9	19.6	20.3	20.3	21.0	21.7	21.0	22.4	22.4	21.0
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°	317.5	317.5	317.5	317.5	317.5	317.5	317.5	317.5
2.5°	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6
5°	323.8	323.8	323.8	323.8	323.8	323.1	323.1	323.1
7.5°	330.1	330.1	330.1	330.1	330.1	329.4	329.4	329.4
10°	339.9	339.2	339.2	339.2	339.2	338.5	339.2	338.5
12.5°	352.5	353.2	353.2	352.5	353.2	351.8	351.8	351.8
15°	370.0	369.3	369.3	369.3	369.3	368.6	368.6	368.6
17.5°	389.7	389.7	389.0	389.0	388.3	387.6	387.6	387.6
20°	412.8	412.1	411.4	410.7	410.0	408.6	407.9	407.9
22.5°	436.6	435.9	435.2	434.5	433.8	432.4	431.0	431.0
25°	463.3	461.9	461.2	459.7	458.3	456.9	456.2	455.5
27.5°	495.5	494.1	492.0	489.9	487.1	486.4	485.0	485.0
30°	534.0	531.9	529.1	525.6	522.8	520.0	518.6	517.9
32.5°	578.9	576.1	571.2	567.0	562.1	559.3	557.2	555.8
35°	631.5	627.3	621.6	615.3	609.0	604.1	600.6	600.6
37.5°	693.1	686.8	678.4	670.7	661.6	656.0	651.8	649.0
40°	760.4	751.3	740.8	731.0	720.5	712.8	706.4	707.1
42.5°	827.0	819.3	806.7	794.8	781.4	770.9	763.2	762.5
45°	897.1	887.3	871.8	856.4	841.0	828.4	819.3	817.9
47.5°	962.3	951.7	933.5	914.6	897.8	883.8	873.9	872.5
50°	1015.5	1002.9	984.0	963.7	945.4	930.0	919.5	916.7
52.5°	1049.9	1035.8	1015.5	991.0	971.4	953.8	941.2	937.7
55°	1055.5	1037.2	1015.5	988.2	966.5	946.8	932.8	928.6
57.5°	1016.9	997.3	977.7	953.8	932.1	911.1	899.9	894.3
60°	941.9	926.5	910.4	888.7	871.1	851.5	842.4	839.6
62.5°	855.7	842.4	827.7	805.3	790.5	773.0	764.6	761.1
65°	763.2	747.8	733.8	715.6	699.4	684.7	672.8	671.4
67.5°	660.9	644.8	632.9	616.7	600.6	586.6	578.9	574.7
70°	553.0	539.6	527.7	510.2	499.7	486.4	480.8	476.6
72.5°	445.7	438.0	423.3	412.1	400.2	389.7	386.2	382.0
75°	344.8	335.7	324.5	317.5	308.4	302.8	300.0	297.2
77.5°	253.0	245.3	239.0	236.2	232.0	226.4	224.3	222.2
80°	175.2	171.7	167.5	166.8	164.0	159.8	159.1	158.4
82.5°	113.5	111.4	110.0	110.0	108.6	105.8	105.1	105.1
85°	63.1	62.4	63.1	62.4	61.0	59.6	59.6	59.6
87.5°	21.0	21.0	21.7	22.4	20.3	20.3	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)