

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: P197825

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115513)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C2-LED-E1-WQ-CG-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3520.4 lumens
Efficiency: N/A
Efficacy: 103.5 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): 34
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

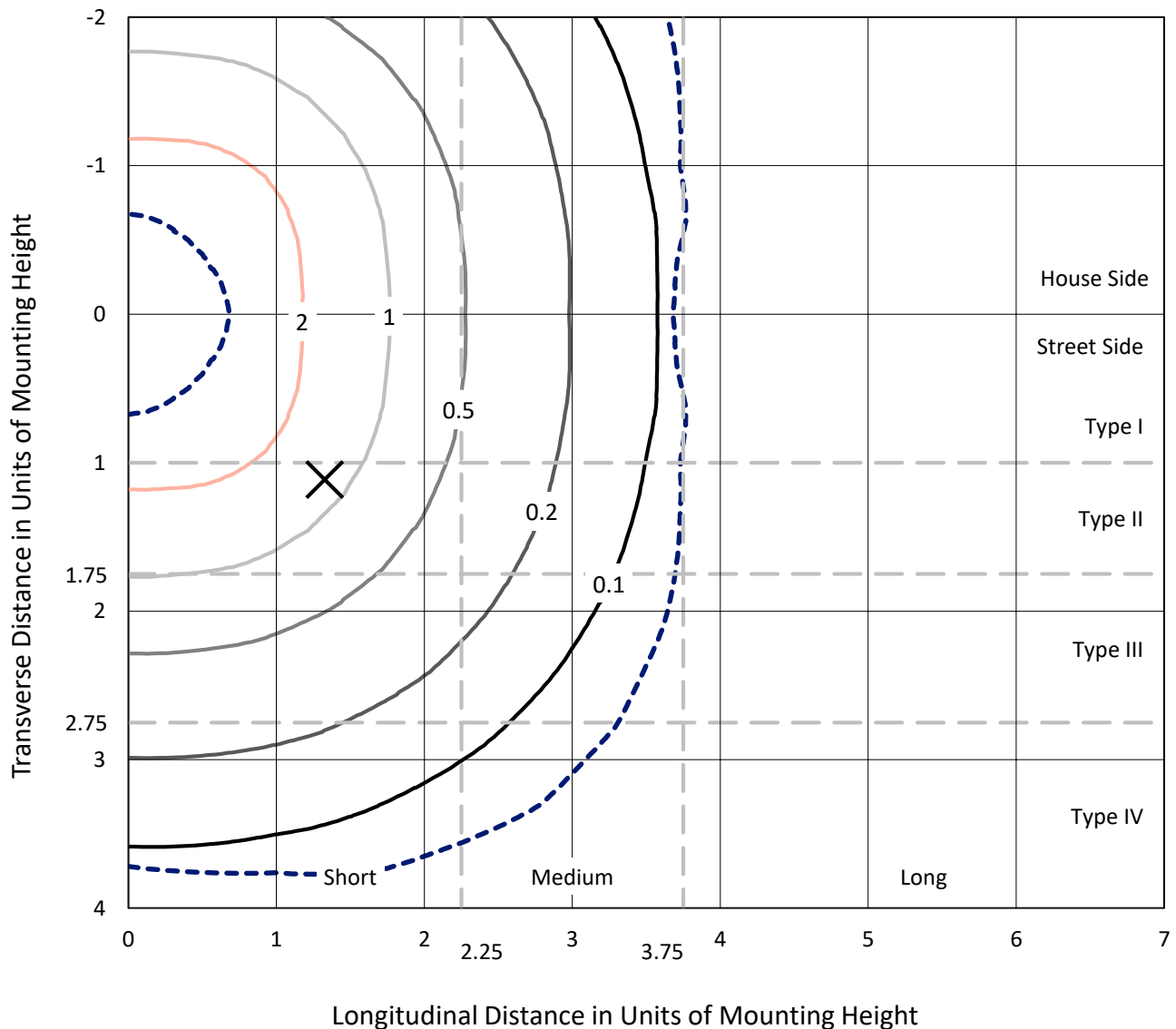


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

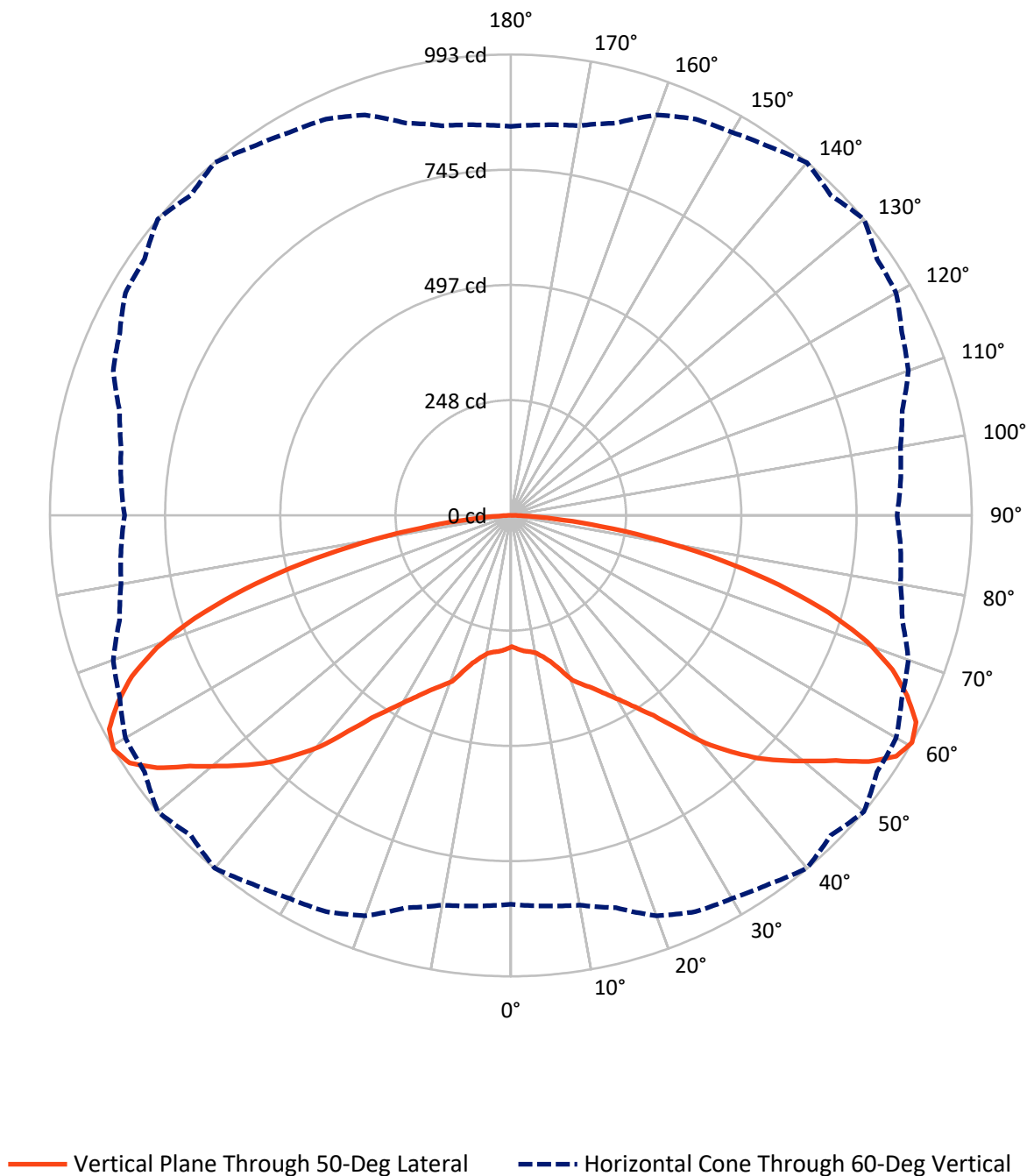


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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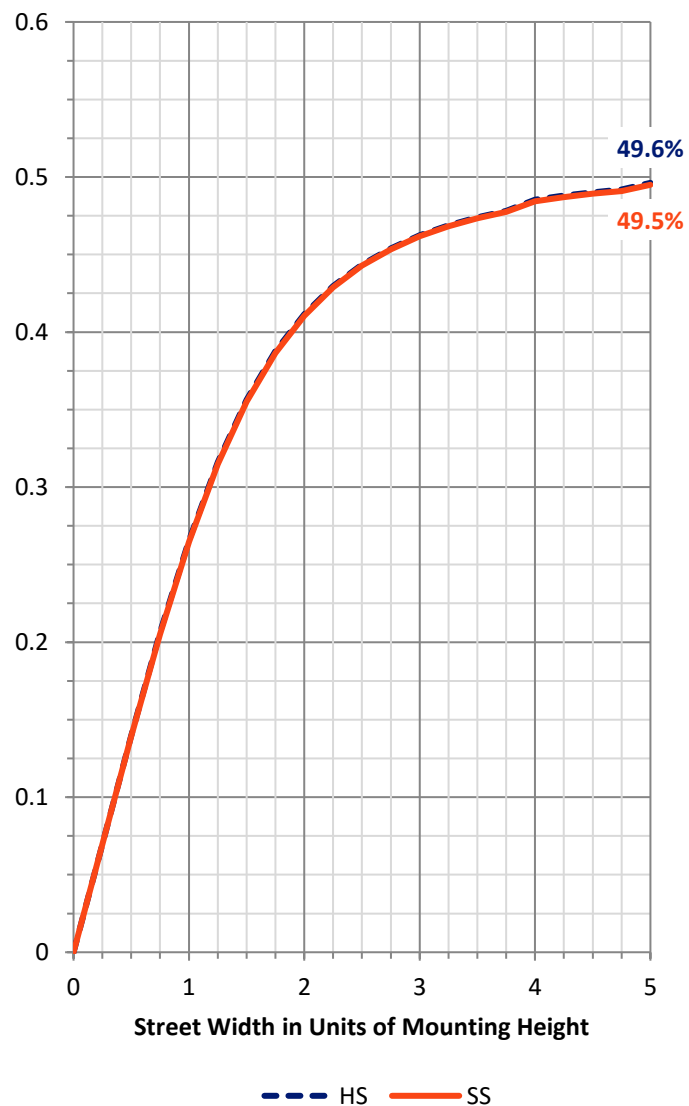
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1760.2	0.0	1760.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1760.2	0.0	1760.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3520.4	0.0	3520.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	0.8
10°-20°	95.0	2.7
20°-30°	191.7	5.4
30°-40°	331.4	9.4
40°-50°	550.5	15.6
50°-60°	782.3	22.2
60°-70°	854.5	24.3
70°-80°	567.7	16.1
80°-90°	119.2	3.4
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°	3520.4	100.0
0°-180°	3520.4	100.0

Coefficient of Utilization



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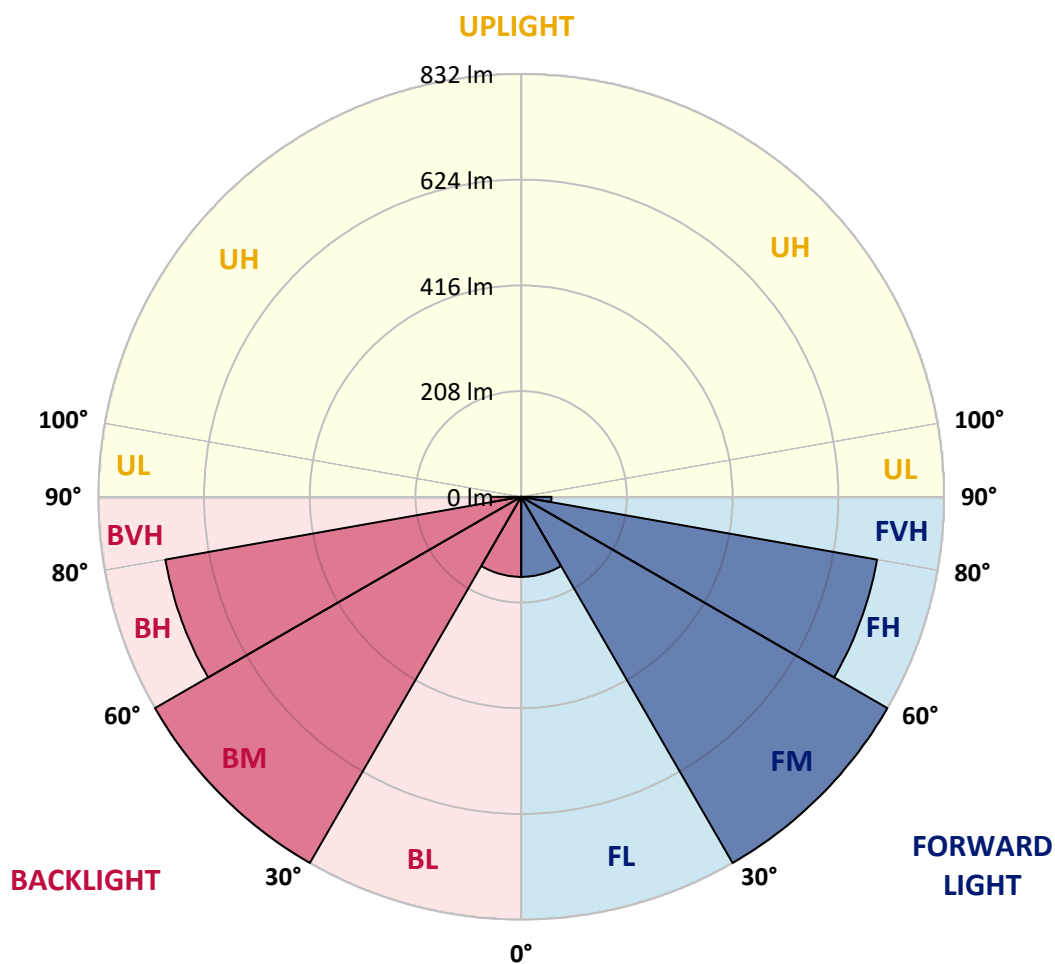
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	157.4	4.5			
FM	(30°-60°)	832.1	23.6			
FH	(60°-80°)	711.1	20.2			G1/1800
FVH	(80°-90°)	59.6	1.7			G1/100
BL	(0°-30°)	157.4	4.5	B1/500		
BM	(30°-60°)	832.1	23.6	B1/1000		
BH	(60°-80°)	711.1	20.2	B2/1000		G1/1800
BVH	(80°-90°)	59.6	1.7			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°	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5
2.5°	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	287.6	288.3	288.3
5°	291.2	291.2	291.2	291.9	291.9	291.9	292.6	292.6	292.6	293.4	293.4
7.5°	293.4	293.4	293.4	293.4	294.1	294.1	294.1	294.8	294.8	295.6	296.3
10°	302.8	302.8	302.8	302.8	302.8	302.1	302.1	302.1	301.4	301.4	301.4
12.5°	314.5	315.2	315.9	315.9	315.9	315.9	314.5	313.0	313.0	313.0	313.0
15°	325.4	326.1	326.9	328.3	329.0	329.8	329.8	329.8	329.8	329.8	328.3
17.5°	342.9	343.6	343.6	344.3	345.1	345.1	345.8	348.0	350.9	352.3	350.9
20°	369.8	371.3	372.0	372.0	372.7	372.0	373.5	374.9	377.1	378.5	379.3
22.5°	389.5	390.9	393.1	393.1	393.1	392.4	393.8	394.6	393.8	393.8	395.3
25°	404.8	406.2	407.7	408.4	409.9	412.8	415.7	415.7	413.5	412.8	412.8
27.5°	424.4	426.6	426.6	427.3	428.8	431.0	433.9	436.1	437.5	436.1	435.3
30°	449.9	451.3	452.1	451.3	454.3	455.0	455.7	457.2	461.5	464.5	460.8
32.5°	469.5	471.7	473.9	476.8	483.4	486.3	485.6	487.0	488.5	491.4	492.1
35°	499.4	503.0	503.8	505.9	514.0	518.3	524.9	528.5	527.8	524.1	529.2
37.5°	544.5	548.9	549.6	553.3	561.3	564.9	572.2	581.7	583.8	578.7	581.7
40°	591.8	597.7	602.8	610.8	623.9	628.2	637.0	642.1	649.4	650.1	645.0
42.5°	631.9	638.4	638.4	652.3	666.8	679.2	690.1	690.9	695.9	703.2	695.9
45°	674.8	679.9	682.1	693.8	702.5	718.5	734.5	740.4	742.5	744.0	746.2
47.5°	714.1	720.7	722.9	733.1	742.5	757.1	767.3	784.8	789.1	783.3	789.1
50°	738.9	746.2	752.0	773.1	789.9	802.2	811.0	826.3	835.0	830.6	831.4
52.5°	777.5	779.7	785.5	797.1	821.2	854.6	864.8	869.9	882.3	888.9	877.2
55°	829.9	837.2	841.5	855.4	867.8	891.8	930.4	938.4	935.5	955.8	936.2
57.5°	838.6	849.6	863.4	889.6	911.4	924.5	948.6	976.2	975.5	978.4	979.1
60°	837.9	844.5	852.5	875.0	918.0	942.0	952.9	969.7	992.2	974.8	993.0
62.5°	832.8	842.3	851.0	867.0	890.3	924.5	955.1	952.9	983.5	969.7	979.9
65°	802.2	811.0	827.0	848.1	876.5	892.5	923.1	942.7	938.4	957.3	938.4
67.5°	749.1	757.1	770.2	795.0	824.8	848.1	859.0	891.8	888.1	909.2	886.7
70°	676.3	686.5	701.8	719.2	748.4	773.1	785.5	806.6	816.8	815.3	813.9
72.5°	588.9	597.7	610.0	629.0	653.7	677.7	687.2	703.2	720.0	714.9	716.3
75°	491.4	498.7	508.1	519.8	543.1	562.0	572.9	587.5	600.6	596.9	595.5
77.5°	378.5	387.3	397.5	408.4	417.9	435.3	443.3	453.5	464.5	462.3	463.0
80°	265.0	272.3	278.8	290.5	297.7	303.6	312.3	316.7	324.7	323.2	325.4
82.5°	161.6	166.7	171.1	176.9	183.5	182.0	182.7	187.8	194.4	190.7	196.6
85°	79.3	78.6	83.0	84.4	88.8	88.1	87.4	90.3	93.9	91.7	91.7
87.5°	20.4	20.4	20.4	21.1	23.3	25.5	23.3	24.8	26.2	26.9	26.2
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°	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5
2.5°	287.6	288.3	287.6	288.3	288.3	288.3	288.3	287.6
5°	293.4	292.6	292.6	292.6	291.9	291.2	291.2	291.2
7.5°	296.3	296.3	295.6	294.8	294.1	294.1	295.6	294.8
10°	302.8	303.6	304.3	305.0	304.3	303.6	303.6	302.8
12.5°	313.0	313.8	315.2	316.7	316.7	315.9	314.5	313.8
15°	327.6	326.9	327.6	329.0	329.0	326.9	324.7	324.0
17.5°	348.0	345.8	344.3	344.3	345.8	343.6	341.4	342.1
20°	376.4	372.7	372.0	369.8	372.0	372.0	368.4	368.4
22.5°	396.7	393.8	390.9	388.7	391.7	393.1	389.5	386.6
25°	415.7	414.9	410.6	408.4	408.4	409.1	404.0	404.8
27.5°	434.6	434.6	431.7	428.1	426.6	428.8	424.4	423.0
30°	457.2	455.0	457.2	452.1	448.4	450.6	450.6	447.7
32.5°	486.3	483.4	485.6	479.7	474.6	473.9	470.3	465.9
35°	527.8	520.5	516.9	514.0	503.8	503.0	502.3	498.7
37.5°	580.2	570.7	562.7	563.5	548.9	545.3	545.3	540.2
40°	642.8	637.0	625.3	621.0	606.4	596.9	596.2	586.8
42.5°	686.5	688.7	673.4	663.2	651.5	637.0	637.7	627.5
45°	734.5	730.2	716.3	699.6	694.5	678.5	679.2	669.0
47.5°	780.4	764.4	757.1	738.9	730.9	712.7	714.9	707.6
50°	825.5	808.1	800.0	780.4	767.3	748.4	746.2	730.9
52.5°	873.6	856.8	845.9	817.5	800.0	785.5	779.7	772.4
55°	936.2	919.4	892.5	864.8	851.7	829.2	827.0	817.5
57.5°	963.8	950.7	922.3	904.1	877.9	854.6	845.9	827.7
60°	963.1	958.7	929.6	911.4	872.8	852.5	843.0	832.1
62.5°	955.1	950.0	915.8	895.4	860.5	843.0	835.7	821.9
65°	939.1	921.6	891.0	874.3	836.4	821.2	805.1	792.8
67.5°	894.0	857.6	843.7	822.6	785.5	769.5	754.2	741.8
70°	809.5	782.6	770.2	744.0	712.0	701.8	682.8	669.0
72.5°	701.8	687.2	674.1	645.7	623.1	613.0	594.0	582.4
75°	582.4	573.6	555.4	534.3	514.0	510.3	489.9	485.6
77.5°	452.1	444.1	429.5	414.2	404.8	397.5	379.3	377.8
80°	316.7	311.6	299.9	293.4	286.8	280.3	267.9	266.4
82.5°	187.1	183.5	184.2	177.6	174.0	172.5	163.1	163.8
85°	90.3	87.4	87.4	87.4	83.7	83.0	77.2	77.9
87.5°	26.2	23.3	23.3	23.3	21.8	21.8	18.9	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)