

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: P197535

Luminaire Tested: **TT-C1-LED-E1-CQ-MS/DIM-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-CQ-MS/DIM-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3686.7 lumens
Efficiency: N/A
Efficacy: 131.7 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

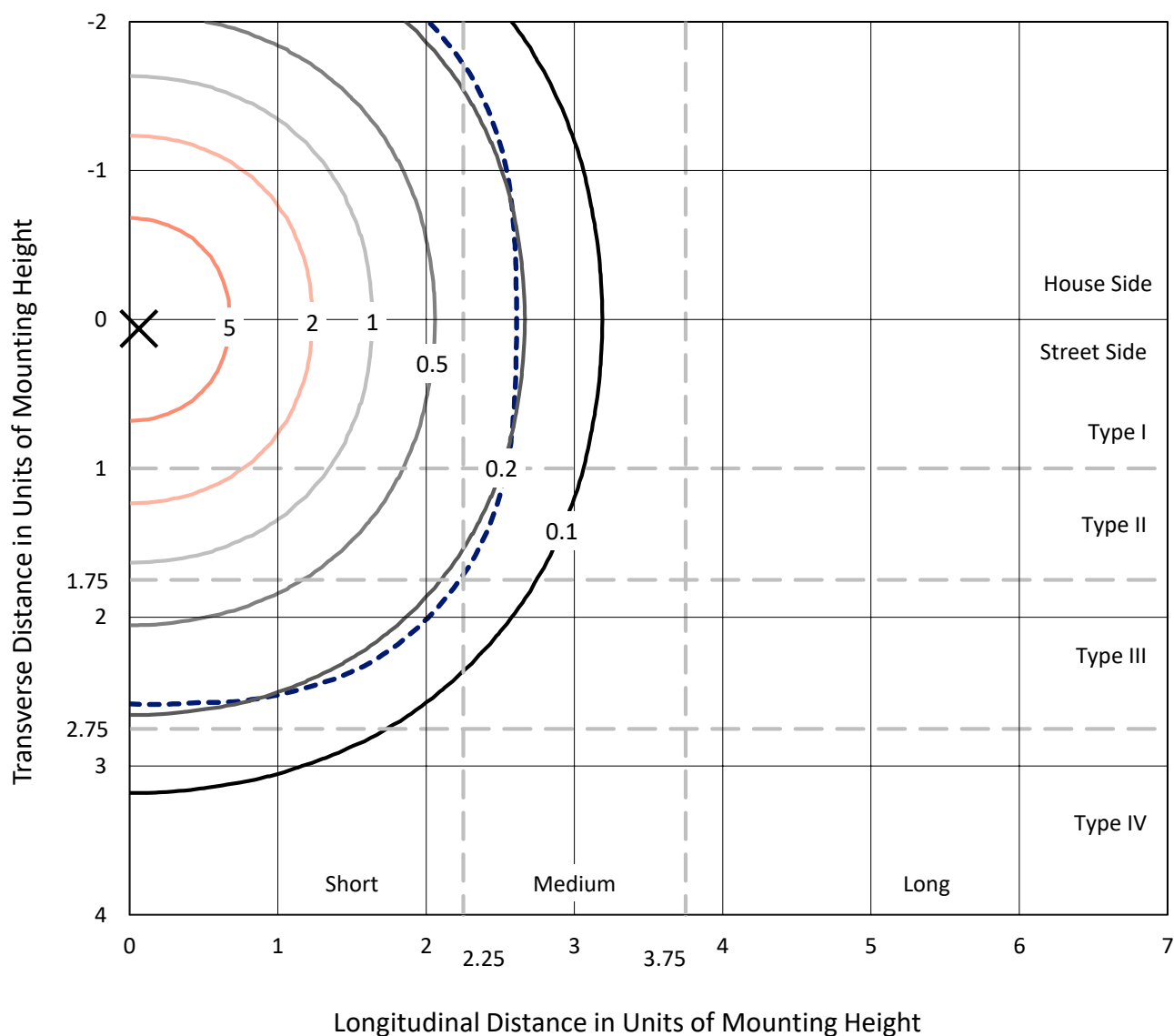


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

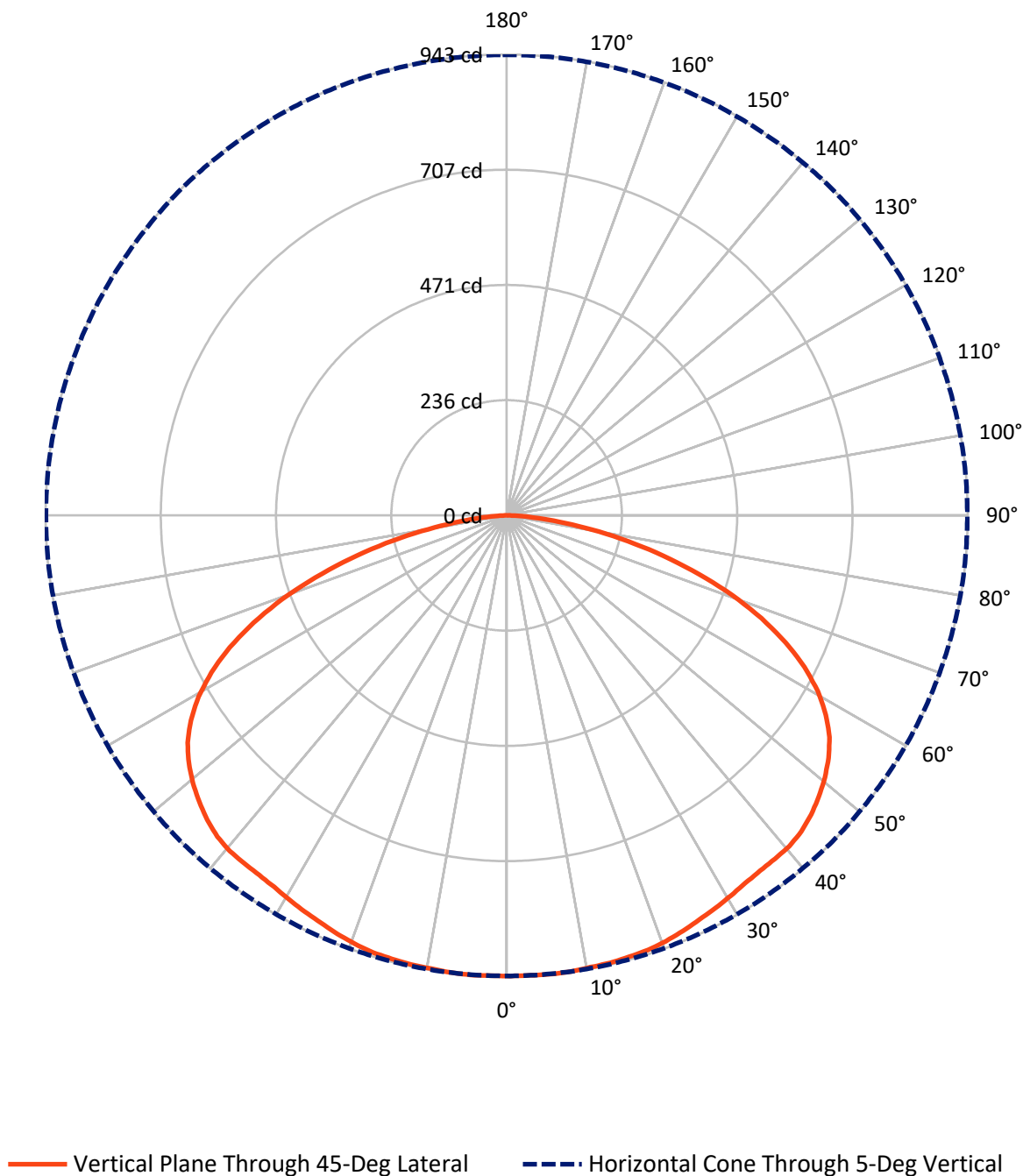


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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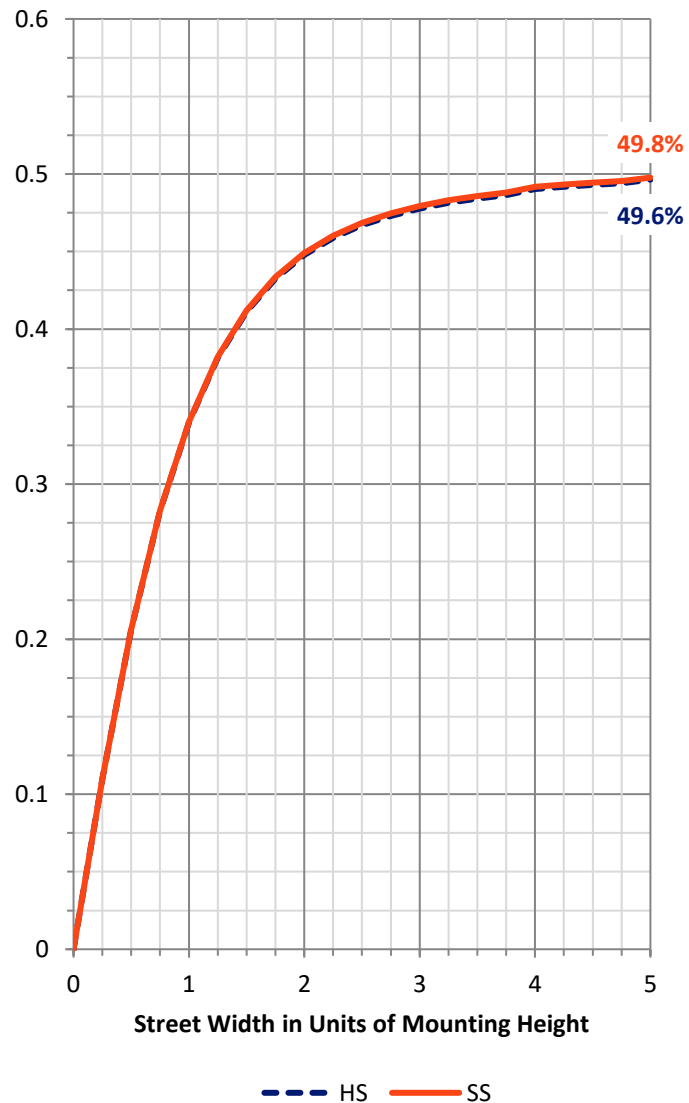
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.3	0.0	1843.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1843.3	0.0	1843.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3686.7	0.0	3686.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	2.4
10°-20°	265.0	7.2
20°-30°	422.9	11.5
30°-40°	557.0	15.1
40°-50°	662.5	18.0
50°-60°	693.4	18.8
60°-70°	589.7	16.0
70°-80°	335.1	9.1
80°-90°	71.3	1.9
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°	3686.7	100.0
0°-180°	3686.7	100.0

Coefficient of Utilization



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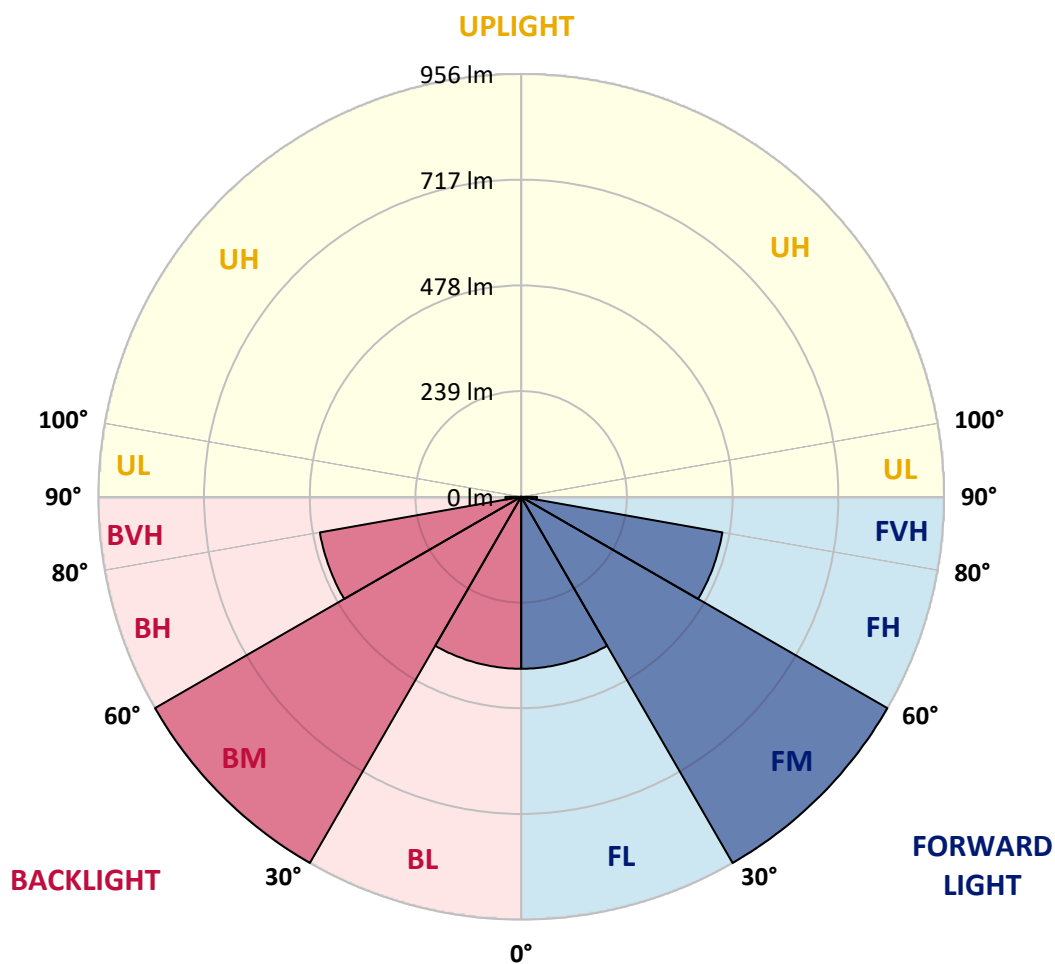
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.8	10.5			
FM	(30°-60°)	956.5	25.9			
FH	(60°-80°)	462.4	12.5			G0/660
FVH	(80°-90°)	35.6	1.0			G1/100
BL	(0°-30°)	388.8	10.5	B1/500		
BM	(30°-60°)	956.5	25.9	B1/1000		
BH	(60°-80°)	462.4	12.5	B1/500		G0/660
BVH	(80°-90°)	35.6	1.0			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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
5°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9	942.6	941.9
7.5°	941.2	941.2	941.2	941.2	941.9	941.2	941.2	941.9	941.9	941.9	941.9
10°	939.7	939.0	939.0	939.7	939.7	939.7	939.7	939.7	940.5	939.7	939.7
12.5°	937.6	936.8	937.6	937.6	937.6	938.3	938.3	938.3	939.0	939.0	938.3
15°	935.4	935.4	935.4	935.4	935.4	936.1	936.1	936.8	936.8	936.8	936.8
17.5°	932.5	932.5	932.5	933.2	933.2	933.9	933.9	933.9	934.6	934.6	934.6
20°	927.4	926.7	927.4	927.4	928.1	928.8	928.8	929.6	929.6	929.6	929.6
22.5°	920.1	920.1	920.8	920.8	921.6	922.3	922.3	923.0	923.0	923.0	923.0
25°	912.8	913.6	913.6	914.3	914.3	915.0	915.7	915.7	915.7	915.7	915.7
27.5°	905.6	906.3	906.3	906.3	907.0	907.8	908.5	909.2	909.9	909.2	909.2
30°	897.6	897.6	898.3	899.0	899.8	900.5	901.9	902.7	903.4	902.7	902.7
32.5°	888.9	889.6	890.3	891.0	892.5	893.9	895.4	896.1	896.9	896.1	896.1
35°	882.3	882.3	883.8	885.2	886.7	888.9	890.3	891.8	893.2	892.5	891.8
37.5°	875.8	875.8	877.2	879.4	882.3	885.2	888.1	890.3	891.0	891.0	890.3
40°	867.8	868.5	870.0	873.6	878.0	881.6	885.2	888.1	889.6	889.6	888.1
42.5°	859.1	859.8	862.0	865.6	870.7	875.0	879.4	881.6	883.8	883.8	882.3
45°	846.7	847.4	850.3	854.0	859.1	863.4	868.5	870.7	873.6	872.9	872.1
47.5°	830.7	831.4	834.3	838.0	843.1	848.2	853.2	856.9	859.1	859.1	858.3
50°	811.1	811.8	814.7	818.4	824.9	830.7	835.8	839.4	843.1	843.1	842.3
52.5°	786.4	787.8	790.0	795.1	802.4	808.9	815.5	821.3	823.4	824.2	823.4
55°	755.9	757.3	760.2	766.0	774.0	782.0	789.3	795.8	798.7	800.9	799.5
57.5°	720.2	721.7	725.3	731.9	740.6	748.6	758.0	765.3	767.5	769.7	768.9
60°	678.1	680.3	683.9	691.2	699.9	708.6	717.3	726.1	728.2	731.1	729.7
62.5°	628.7	630.8	634.5	642.5	651.9	659.9	670.1	678.1	680.3	683.2	682.5
65°	572.0	574.2	577.8	586.5	595.2	604.0	613.4	622.1	624.3	627.2	626.5
67.5°	507.3	509.5	513.1	523.3	532.0	540.7	548.7	557.4	558.9	561.8	561.1
70°	439.0	441.9	444.8	454.2	462.2	469.5	478.2	485.5	488.4	489.9	488.4
72.5°	370.7	372.8	375.7	382.3	388.1	394.6	403.4	408.5	410.6	411.4	411.4
75°	300.2	302.3	302.3	309.6	314.0	317.6	324.9	328.5	330.0	331.4	331.4
77.5°	233.3	231.8	233.3	236.2	239.1	242.0	246.4	248.6	250.0	252.9	251.5
80°	163.5	164.3	165.0	167.2	168.6	169.3	172.2	173.0	173.7	176.6	175.2
82.5°	105.4	103.9	105.4	104.7	106.1	103.9	105.4	107.6	106.1	107.6	108.3
85°	55.2	53.1	53.1	53.8	54.5	53.1	53.8	53.1	53.1	54.5	53.8
87.5°	17.4	16.7	17.4	16.7	17.4	16.7	17.4	18.2	17.4	17.4	18.2
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°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
2.5°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
5°	941.9	941.9	941.9	941.9	941.9	941.9	941.9	941.9
7.5°	941.2	941.2	941.2	941.2	941.2	941.2	940.5	941.2
10°	939.7	939.7	939.7	939.7	939.0	939.0	939.0	939.0
12.5°	938.3	938.3	937.6	937.6	937.6	937.6	936.8	936.8
15°	936.8	936.1	936.1	935.4	935.4	935.4	934.6	935.4
17.5°	934.6	933.9	933.9	933.2	933.2	932.5	932.5	932.5
20°	929.6	928.8	928.8	928.1	928.1	927.4	926.7	926.7
22.5°	922.3	922.3	922.3	921.6	920.8	920.8	920.1	920.1
25°	915.7	915.0	915.0	914.3	913.6	913.6	912.8	912.8
27.5°	909.2	908.5	907.8	906.3	906.3	905.6	904.8	904.1
30°	901.9	900.5	899.0	898.3	897.6	896.1	895.4	894.7
32.5°	894.7	893.2	891.8	890.3	888.1	887.4	886.0	886.0
35°	890.3	888.1	886.0	883.0	880.9	878.7	877.2	876.5
37.5°	888.1	885.2	881.6	878.0	874.3	871.4	869.2	869.2
40°	885.2	881.6	877.2	872.1	867.8	864.1	862.0	861.2
42.5°	879.4	875.8	870.0	865.6	859.8	856.2	853.2	852.5
45°	869.2	865.6	860.5	854.7	848.9	844.5	841.6	840.9
47.5°	856.2	851.8	846.0	840.2	834.3	829.3	826.4	825.6
50°	839.4	835.1	829.3	823.4	816.9	811.8	808.2	808.2
52.5°	820.5	815.5	808.9	802.4	795.1	790.0	786.4	785.7
55°	795.8	790.0	783.5	776.2	768.2	762.4	758.0	757.3
57.5°	765.3	758.8	751.5	743.5	735.5	729.0	723.9	723.2
60°	726.8	719.5	712.2	704.3	695.5	688.3	683.2	681.7
62.5°	679.5	671.5	663.6	656.3	646.8	639.6	634.5	633.0
65°	623.6	617.0	609.0	600.3	590.1	582.9	577.8	577.1
67.5°	558.2	551.6	543.6	535.6	525.5	518.9	513.8	512.4
70°	486.2	480.4	473.9	465.9	457.1	450.6	445.5	444.8
72.5°	409.9	404.8	399.0	393.2	384.5	379.4	375.0	374.3
75°	331.4	326.3	322.0	317.6	311.1	307.4	303.1	303.1
77.5°	251.5	250.0	247.1	242.0	238.4	235.5	233.3	231.8
80°	175.9	174.4	173.0	170.1	167.9	167.2	165.7	164.3
82.5°	107.6	106.8	107.6	106.1	105.4	105.4	104.7	103.2
85°	54.5	55.2	54.5	53.8	53.8	53.8	53.8	53.1
87.5°	17.4	18.2	17.4	16.7	16.7	16.7	16.7	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)