

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: P197921

Luminaire Tested: **TT-C2-LED-E1-5WQ-PM-SG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197921
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-C2-LED-E1-5WQ-PM-SG-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

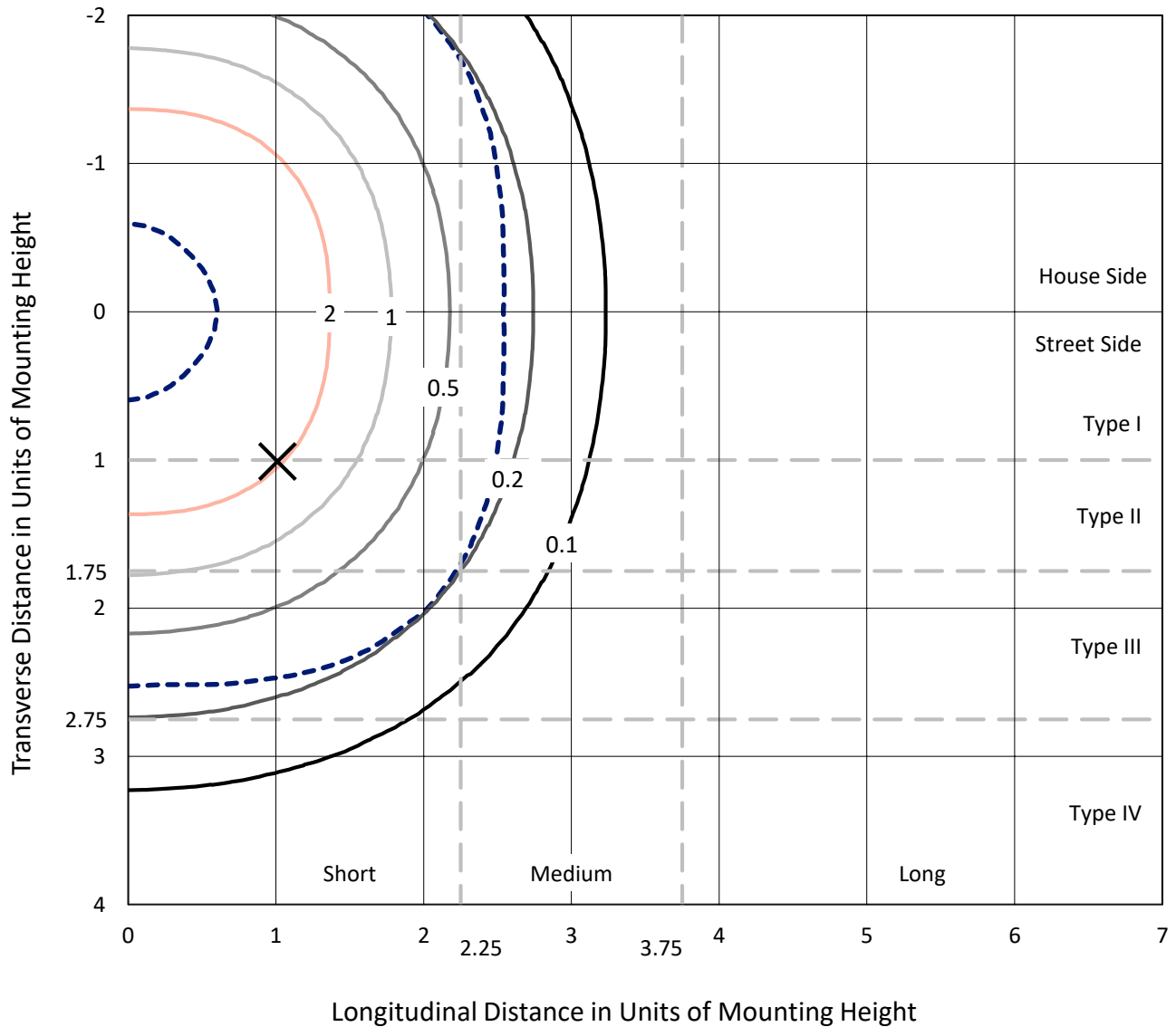
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

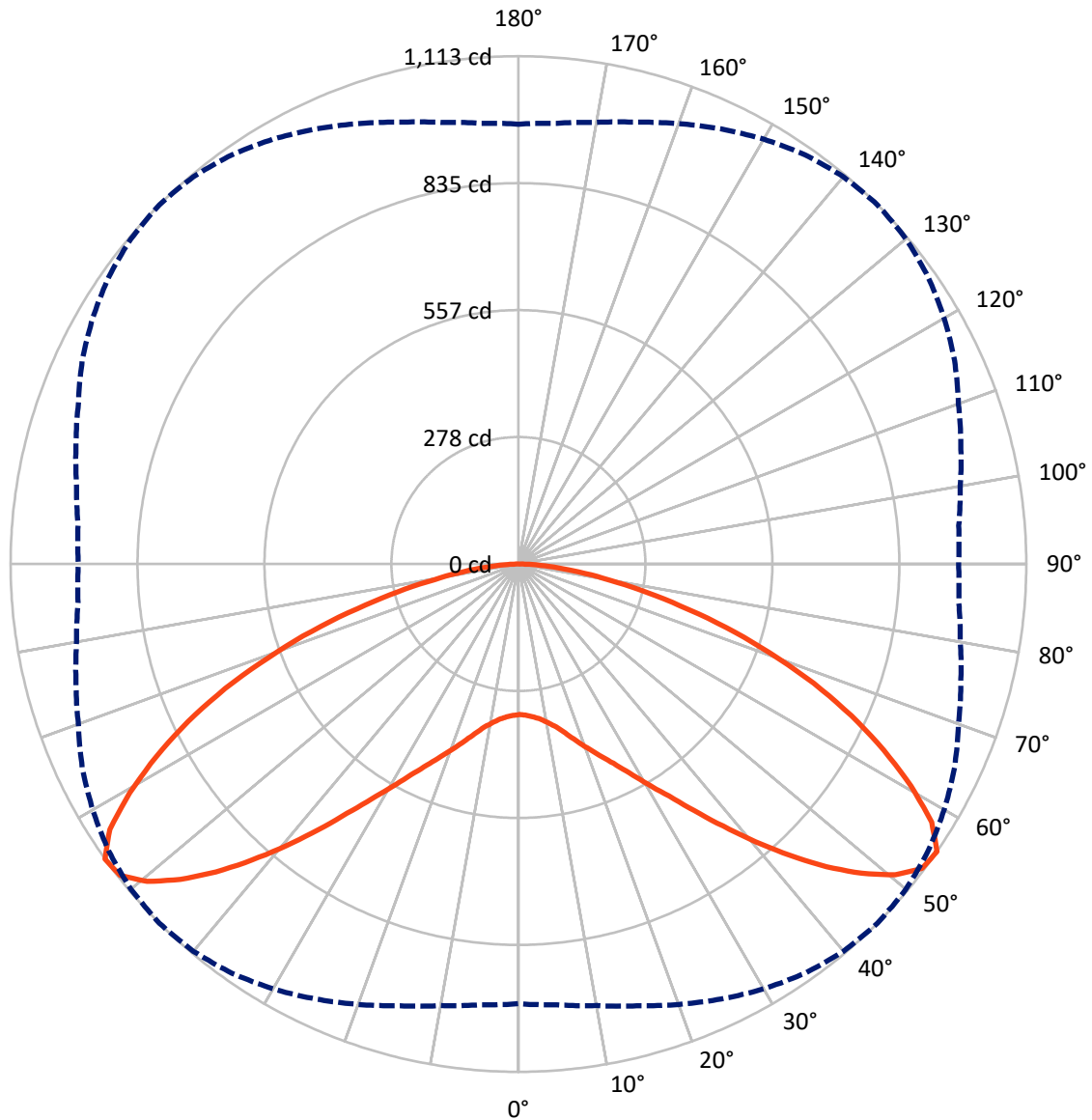
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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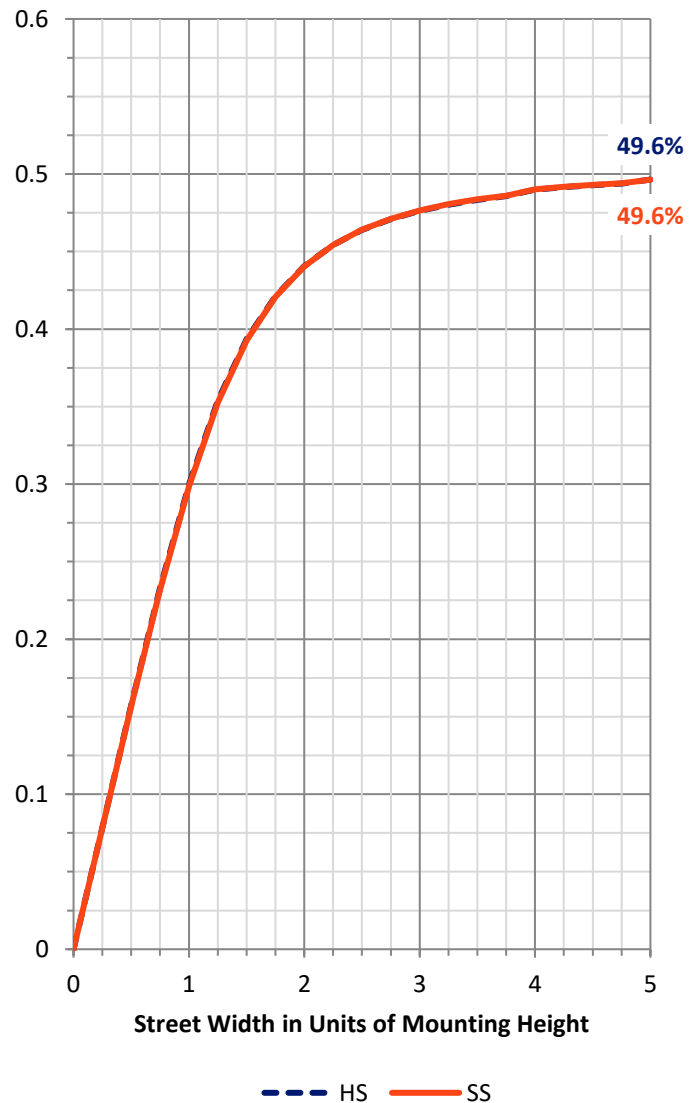
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1779.5	0.0	1779.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1779.5	0.0	1779.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3559.0	0.0	3559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	0.9
10°-20°	110.5	3.1
20°-30°	225.0	6.3
30°-40°	410.8	11.5
40°-50°	697.6	19.6
50°-60°	908.5	25.5
60°-70°	734.8	20.6
70°-80°	361.1	10.1
80°-90°	78.2	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°	3559.0	100.0
0°-180°	3559.0	100.0

Coefficient of Utilization



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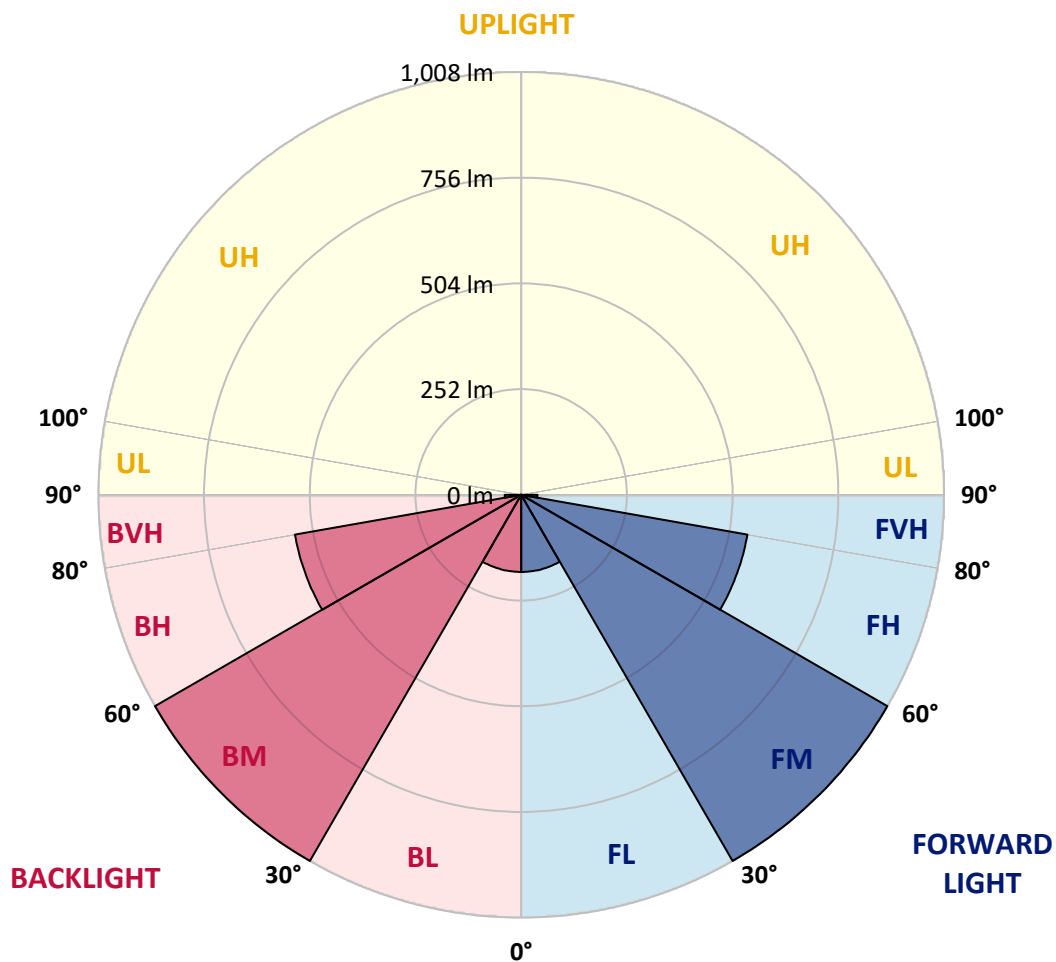
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.0	5.2			
FM	(30°-60°)	1008.5	28.3			
FH	(60°-80°)	547.9	15.4			G0/660
FVH	(80°-90°)	39.1	1.1			G1/100
BL	(0°-30°)	184.0	5.2	B1/500		
BM	(30°-60°)	1008.5	28.3	B2/2500		
BH	(60°-80°)	547.9	15.4	B2/1000		G0/660
BVH	(80°-90°)	39.1	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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	331.2	331.2	331.2	331.2	331.2	331.2	332.0	332.0	332.0	332.0	332.0
5°	335.6	335.6	335.6	336.3	336.3	336.3	336.3	336.3	336.3	336.3	336.3
7.5°	342.1	341.4	342.1	342.1	342.1	342.9	342.9	342.1	342.9	342.9	342.9
10°	351.6	350.9	351.6	351.6	351.6	352.3	352.3	352.3	352.3	353.1	353.1
12.5°	365.4	364.7	365.4	366.2	365.4	366.2	366.2	366.2	366.2	366.2	366.2
15°	382.9	382.2	382.9	383.6	382.9	384.4	384.4	383.6	383.6	384.4	384.4
17.5°	404.0	402.6	403.3	404.0	404.0	405.5	405.5	404.8	405.5	406.2	405.5
20°	425.9	424.4	425.1	427.3	427.3	428.1	429.5	428.8	429.5	430.2	429.5
22.5°	449.9	449.2	449.9	452.1	452.1	452.8	455.0	455.0	455.0	455.7	455.0
25°	476.1	475.4	476.1	478.3	478.3	479.7	482.6	482.6	483.4	484.1	483.4
27.5°	506.7	505.9	507.4	509.6	510.3	512.5	516.1	516.9	517.6	518.3	516.9
30°	542.3	540.9	543.1	546.7	548.2	551.1	555.4	556.9	557.6	559.8	558.4
32.5°	583.1	581.7	584.6	588.9	591.1	595.5	601.3	602.8	605.0	606.4	604.2
35°	631.2	630.4	633.3	639.9	643.5	648.6	656.6	658.8	660.3	663.2	660.3
37.5°	684.3	683.6	688.7	695.9	702.5	710.5	719.2	722.9	725.1	728.7	725.1
40°	743.3	742.5	749.1	757.8	765.8	776.0	786.9	792.0	796.4	800.0	795.7
42.5°	803.7	803.7	811.7	821.2	832.8	845.2	857.6	863.4	870.7	872.8	867.8
45°	861.9	862.7	870.7	882.3	899.1	915.1	928.9	936.2	944.2	946.4	939.8
47.5°	917.3	918.0	925.3	940.5	959.5	977.7	994.4	1004.6	1012.6	1013.3	1008.3
50°	962.4	965.3	974.8	988.6	1008.3	1027.2	1047.6	1060.7	1068.7	1070.9	1065.8
52.5°	979.9	985.0	995.9	1013.3	1035.9	1055.6	1078.1	1094.9	1104.3	1108.0	1103.6
55°	963.8	969.7	982.8	1002.4	1027.2	1051.9	1075.2	1094.9	1108.0	1113.1	1108.7
57.5°	928.2	928.9	942.0	961.7	984.2	1009.7	1032.3	1050.5	1062.8	1067.9	1067.2
60°	866.3	866.3	878.7	897.6	915.1	941.3	960.2	974.0	982.8	988.6	987.1
62.5°	783.3	783.3	794.2	813.9	831.4	853.9	872.1	886.7	892.5	899.1	900.5
65°	690.9	690.9	701.0	720.7	736.7	757.1	774.6	788.4	794.2	802.2	800.8
67.5°	592.6	591.8	601.3	618.1	633.3	652.3	669.0	682.1	688.7	698.1	691.6
70°	491.4	491.4	499.4	512.5	523.4	542.3	558.4	571.5	576.6	584.6	580.9
72.5°	395.3	394.6	401.1	411.3	420.0	436.8	446.3	460.8	465.2	476.1	470.3
75°	308.7	307.2	312.3	319.6	325.4	336.3	343.6	355.3	358.9	366.2	363.3
77.5°	232.2	231.5	233.7	238.8	243.1	251.9	254.8	260.6	263.5	270.8	265.0
80°	166.7	164.5	166.7	169.6	171.1	177.6	178.4	180.5	182.0	187.1	181.3
82.5°	112.1	109.2	110.7	112.8	112.8	116.5	117.2	116.5	119.4	120.8	117.9
85°	64.1	61.9	62.6	64.1	63.3	65.5	65.5	64.8	67.0	67.0	65.5
87.5°	21.1	19.7	20.4	21.1	21.1	21.8	22.6	21.8	23.3	23.3	21.8
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°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0
5°	336.3	336.3	336.3	336.3	336.3	335.6	335.6	335.6
7.5°	342.9	342.9	342.9	342.9	342.9	342.1	342.1	342.1
10°	353.1	352.3	352.3	352.3	352.3	351.6	352.3	351.6
12.5°	366.2	366.9	366.9	366.2	366.9	365.4	365.4	365.4
15°	384.4	383.6	383.6	383.6	383.6	382.9	382.9	382.9
17.5°	404.8	404.8	404.0	404.0	403.3	402.6	402.6	402.6
20°	428.8	428.1	427.3	426.6	425.9	424.4	423.7	423.7
22.5°	453.5	452.8	452.1	451.3	450.6	449.2	447.7	447.7
25°	481.2	479.7	479.0	477.6	476.1	474.6	473.9	473.2
27.5°	514.7	513.2	511.0	508.9	505.9	505.2	503.8	503.8
30°	554.7	552.5	549.6	546.0	543.1	540.2	538.7	538.0
32.5°	601.3	598.4	593.3	588.9	583.8	580.9	578.7	577.3
35°	655.9	651.5	645.7	639.2	632.6	627.5	623.9	623.9
37.5°	720.0	713.4	704.7	696.7	687.2	681.4	677.0	674.1
40°	789.9	780.4	769.5	759.3	748.4	740.4	733.8	734.5
42.5°	859.0	851.0	837.9	825.5	811.7	800.8	792.8	792.0
45°	931.8	921.6	905.6	889.6	873.6	860.5	851.0	849.6
47.5°	999.5	988.6	969.7	950.0	932.5	918.0	907.8	906.3
50°	1054.8	1041.7	1022.1	1001.0	982.0	966.0	955.1	952.2
52.5°	1090.5	1076.0	1054.8	1029.4	1009.0	990.8	977.7	974.0
55°	1096.3	1077.4	1054.8	1026.4	1003.9	983.5	968.9	964.6
57.5°	1056.3	1035.9	1015.5	990.8	968.2	946.4	934.7	928.9
60°	978.4	962.4	945.6	923.1	904.9	884.5	875.0	872.1
62.5°	888.9	875.0	859.7	836.4	821.2	803.0	794.2	790.6
65°	792.8	776.8	762.2	743.3	726.5	711.2	698.9	697.4
67.5°	686.5	669.7	657.4	640.6	623.9	609.3	601.3	596.9
70°	574.4	560.5	548.2	530.0	519.0	505.2	499.4	495.0
72.5°	463.0	455.0	439.7	428.1	415.7	404.8	401.1	396.7
75°	358.2	348.7	337.1	329.8	320.3	314.5	311.6	308.7
77.5°	262.8	254.8	248.2	245.3	241.0	235.1	233.0	230.8
80°	182.0	178.4	174.0	173.3	170.3	166.0	165.3	164.5
82.5°	117.9	115.7	114.3	114.3	112.8	109.9	109.2	109.2
85°	65.5	64.8	65.5	64.8	63.3	61.9	61.9	61.9
87.5°	21.8	21.8	22.6	23.3	21.1	21.1	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)