

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: P197754

Luminaire Tested: **TT-C2-LED-E1-5WQ-PM-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
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-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4299.2 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

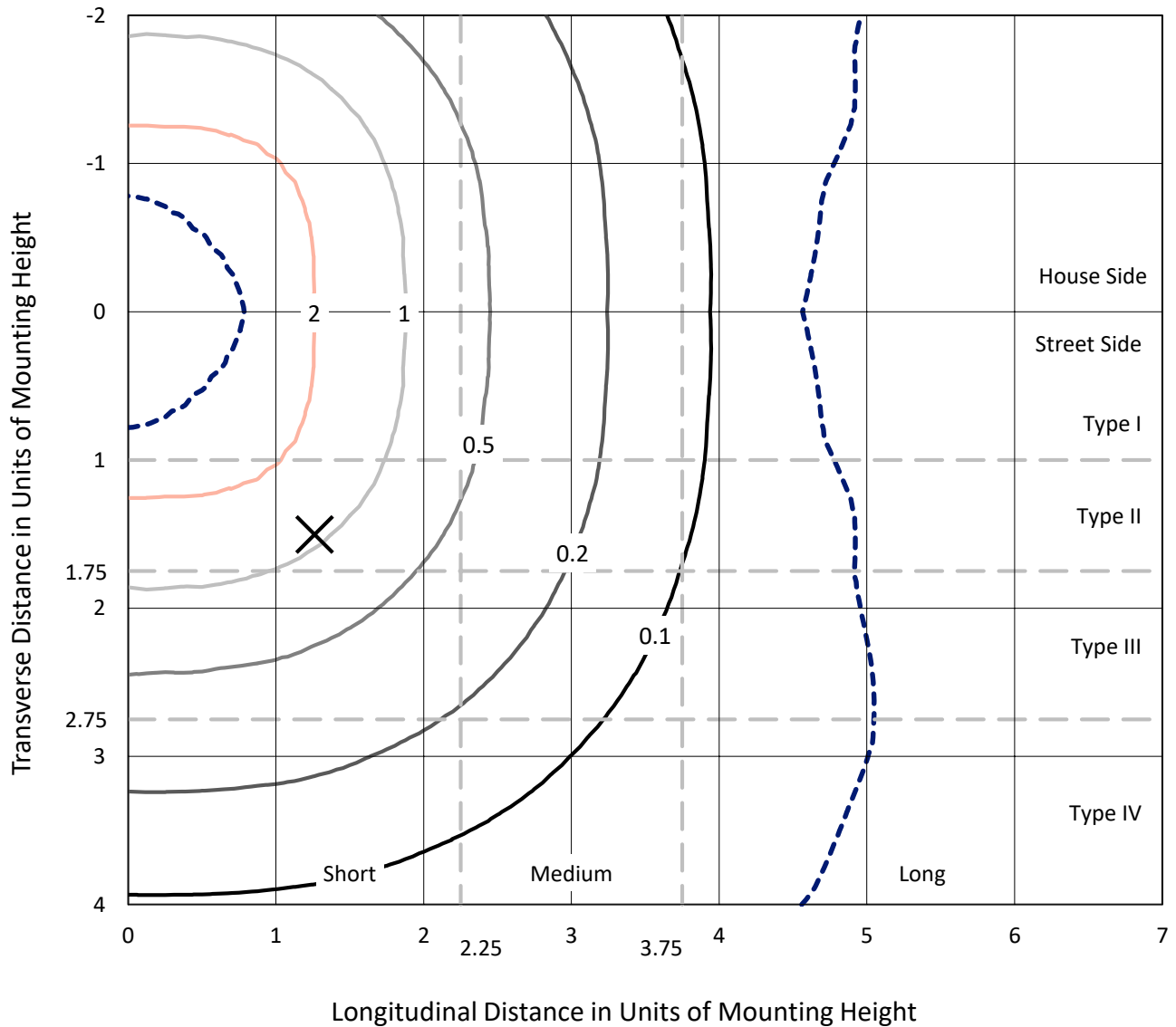
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

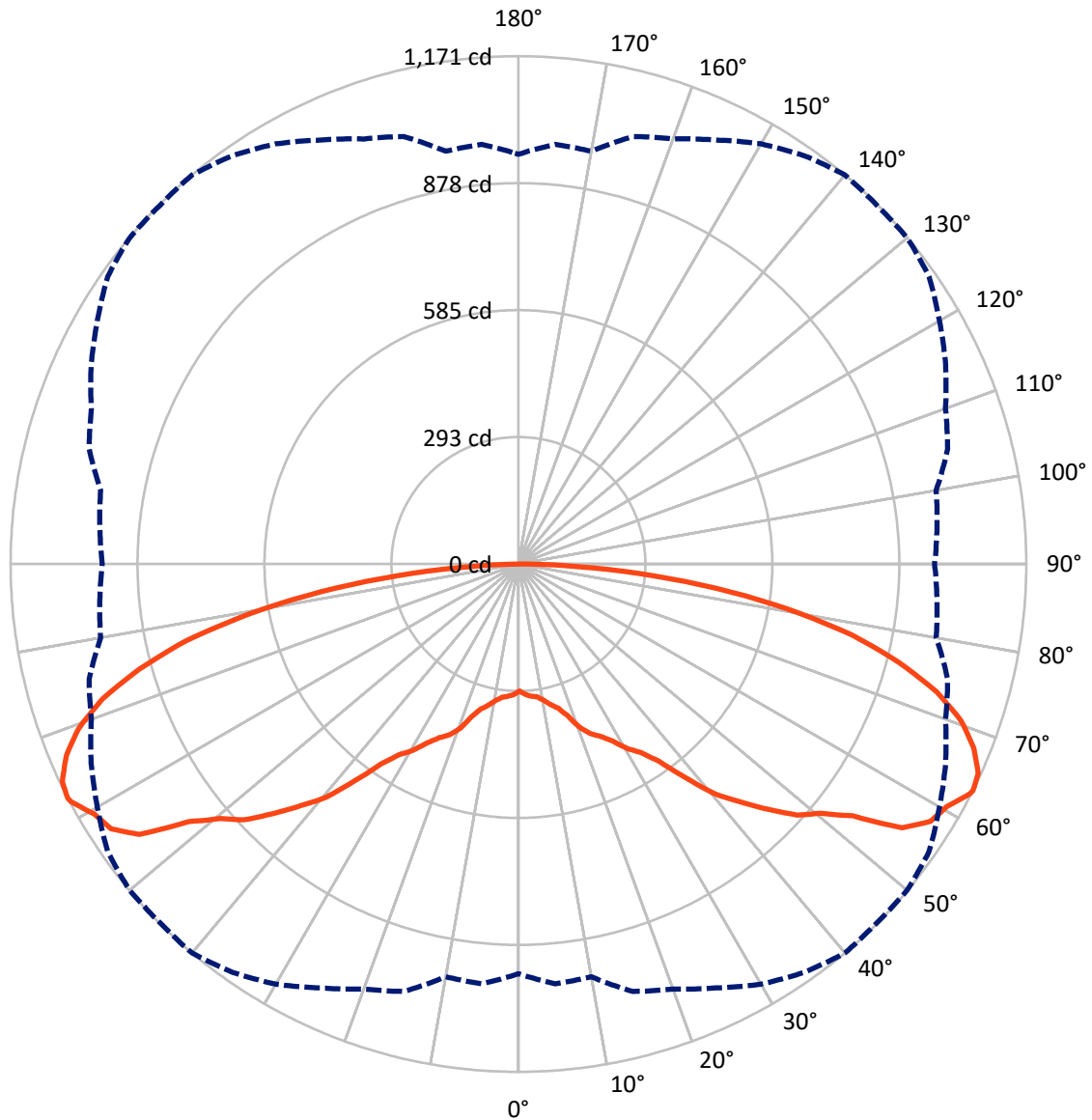
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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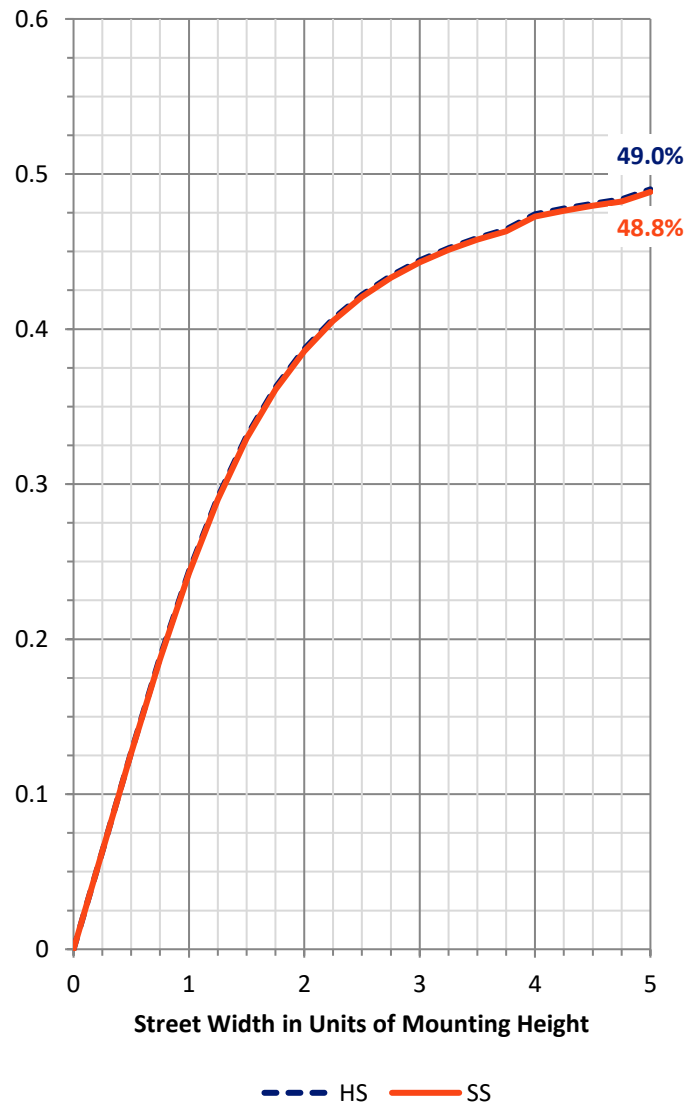
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2149.6	0.0	2149.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2149.6	0.0	2149.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4299.2	0.0	4299.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	0.7
10°-20°	100.4	2.3
20°-30°	204.2	4.7
30°-40°	351.9	8.2
40°-50°	592.8	13.8
50°-60°	872.9	20.3
60°-70°	1038.1	24.1
70°-80°	840.4	19.5
80°-90°	268.9	6.3
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°	4299.2	100.0
0°-180°	4299.2	100.0



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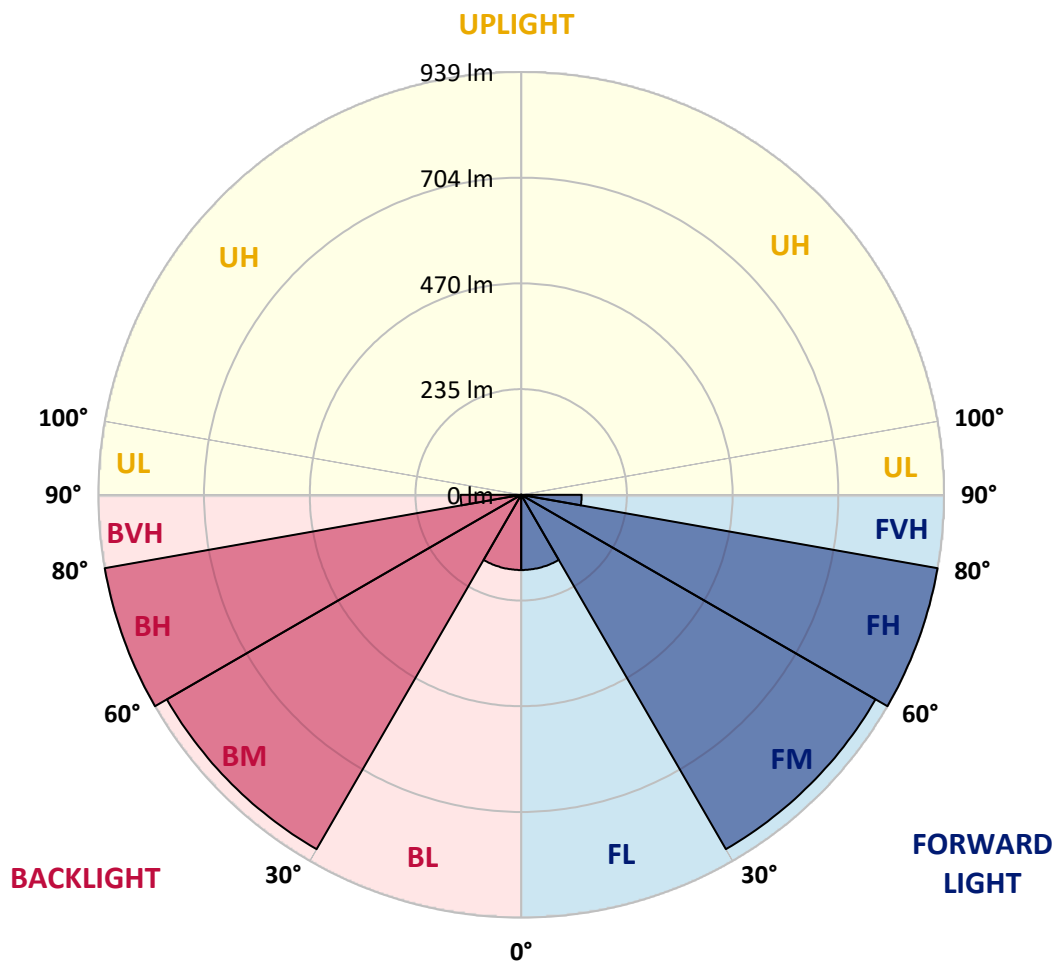
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.1	3.9			
FM (30°-60°)	908.8	21.1			
FH (60°-80°)	939.2	21.8			G1/1800
FVH (80°-90°)	134.4	3.1			G2/225
BL (0°-30°)	167.1	3.9	B1/500		
BM (30°-60°)	908.8	21.1	B1/1000		
BH (60°-80°)	939.2	21.8	B2/1000		G1/1800
BVH (80°-90°)	134.4	3.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	292.7	292.7	292.7	292.7	292.7	292.7	292.7	292.7	292.7	292.7	292.7
2.5°	301.9	301.9	301.9	301.9	301.9	301.9	301.0	301.9	301.0	301.0	301.0
5°	307.6	307.6	307.6	307.6	306.9	306.9	306.0	306.0	306.0	305.2	306.0
7.5°	310.2	310.2	310.2	310.2	309.3	309.3	309.3	309.3	309.3	309.3	309.3
10°	316.0	316.0	316.8	317.7	319.3	319.3	319.3	320.2	319.3	319.3	319.3
12.5°	328.5	327.6	329.3	331.0	332.7	333.4	333.4	333.4	332.7	332.7	333.4
15°	345.9	344.3	345.1	345.9	346.8	347.6	347.6	346.8	345.1	345.1	345.1
17.5°	368.4	365.9	365.1	364.2	364.2	365.9	367.5	366.8	367.5	366.8	367.5
20°	395.0	393.3	393.3	393.3	394.1	397.5	400.8	402.5	401.6	400.0	402.5
22.5°	412.4	413.3	417.5	416.6	415.8	419.1	423.2	426.6	424.9	422.5	424.1
25°	431.6	431.6	437.4	439.9	437.4	437.4	439.1	441.5	439.9	438.2	439.9
27.5°	453.2	453.2	455.7	458.2	456.5	456.5	459.0	463.2	462.4	461.5	462.4
30°	478.9	475.6	473.2	477.3	481.5	482.4	484.8	491.5	493.2	492.3	493.9
32.5°	503.1	498.1	499.8	502.3	511.4	514.8	513.9	518.9	518.1	515.6	518.9
35°	526.4	532.2	535.5	540.5	543.8	548.0	548.0	557.1	558.8	556.4	558.8
37.5°	571.3	573.8	583.0	583.7	587.9	603.7	605.3	617.8	624.5	621.2	622.0
40°	632.8	632.0	638.7	648.6	657.0	676.9	682.7	691.0	696.9	694.4	697.7
42.5°	682.7	676.1	681.0	702.6	711.8	726.8	734.3	738.5	749.3	745.9	750.1
45°	718.5	720.9	727.7	749.3	755.0	767.5	785.0	792.5	806.6	802.5	805.0
47.5°	753.4	765.1	770.9	780.8	799.1	815.8	837.4	844.9	864.8	863.1	860.7
50°	799.1	808.3	814.9	822.4	847.4	874.8	893.1	896.4	903.1	898.1	906.4
52.5°	848.2	847.4	853.2	873.9	908.9	919.7	935.5	950.5	964.6	969.6	964.6
55°	913.1	892.2	916.4	946.3	961.3	987.1	1025.3	1046.1	1073.6	1077.7	1069.4
57.5°	939.7	939.7	964.6	982.1	1009.5	1055.3	1096.0	1106.0	1120.1	1112.6	1121.0
60°	936.4	967.9	967.9	998.7	1043.6	1084.4	1099.3	1115.9	1135.1	1134.3	1134.3
62.5°	940.5	971.3	962.9	1016.2	1043.6	1076.9	1110.1	1140.9	1167.6	1166.7	1165.9
63°	944.6	971.3	966.3	1020.3	1042.8	1078.5	1118.5	1149.2	1170.9	1169.2	1170.0
65°	957.1	949.6	979.6	1013.7	1039.5	1092.7	1126.0	1150.0	1165.0	1164.2	1164.2
67.5°	933.8	916.4	958.8	972.1	1021.2	1068.6	1094.3	1121.8	1132.6	1132.6	1130.9
70°	862.4	869.8	899.0	920.6	970.4	1012.8	1034.4	1069.4	1082.7	1082.7	1081.9
72.5°	790.0	802.5	822.4	853.2	900.6	933.8	959.6	991.2	1008.7	1007.8	1007.8
75°	697.7	709.4	732.6	761.8	803.3	835.8	856.5	886.5	906.4	913.9	905.6
77.5°	593.8	597.1	618.7	648.6	685.2	707.7	739.3	768.4	785.0	784.1	781.7
80°	467.4	471.5	489.8	523.9	543.8	570.5	599.6	615.4	629.5	629.5	627.8
82.5°	322.6	331.8	350.1	372.5	393.3	416.6	432.4	448.2	459.9	459.0	456.5
85°	182.1	186.3	203.7	217.9	233.6	248.6	259.4	269.5	279.4	279.4	277.7
87.5°	54.9	49.1	59.0	64.9	73.1	80.6	85.7	95.6	102.3	94.8	94.8
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°	292.7	292.7	292.7	292.7	292.7	292.7	292.7	292.7
2.5°	301.9	301.9	301.9	301.9	301.9	301.9	301.9	301.9
5°	306.0	306.9	306.9	307.6	307.6	307.6	307.6	307.6
7.5°	309.3	309.3	309.3	309.3	310.2	310.2	310.2	310.2
10°	319.3	320.2	319.3	319.3	317.7	316.8	316.8	316.8
12.5°	333.4	334.3	334.3	332.7	331.0	329.3	328.5	327.6
15°	346.8	349.2	347.6	346.8	345.1	345.9	345.9	346.8
17.5°	367.5	368.4	365.9	364.2	363.4	365.1	366.8	367.5
20°	403.3	401.6	396.7	395.0	393.3	393.3	395.0	395.0
22.5°	425.8	421.6	418.3	416.6	416.6	416.6	414.1	410.8
25°	441.5	439.1	436.6	438.2	439.9	437.4	431.6	430.7
27.5°	463.2	458.2	457.3	456.5	457.3	455.7	454.9	451.6
30°	491.5	484.8	483.1	481.5	476.5	474.9	476.5	478.9
32.5°	518.1	513.9	515.6	512.2	503.1	499.8	501.4	500.6
35°	556.4	548.9	548.9	542.1	539.7	538.8	532.2	526.4
37.5°	617.0	607.0	604.6	589.6	583.0	584.6	575.5	568.8
40°	691.0	683.6	676.9	660.3	651.1	639.4	633.7	633.7
42.5°	740.1	735.1	726.0	714.3	704.3	684.4	676.9	681.0
45°	794.2	787.5	768.4	756.7	747.6	733.4	725.1	716.9
47.5°	849.0	839.9	817.5	802.5	780.8	776.6	767.5	755.9
50°	897.3	893.9	878.1	853.2	825.7	819.1	810.8	800.0
52.5°	956.3	936.4	923.0	912.2	881.4	859.8	848.2	853.2
55°	1052.7	1027.8	993.7	959.6	953.0	927.2	898.1	913.9
57.5°	1108.4	1094.3	1068.6	1014.5	987.9	970.4	951.3	937.1
60°	1121.8	1096.0	1090.2	1049.4	1007.1	970.4	977.9	944.6
62.5°	1147.6	1112.6	1080.2	1047.8	1022.0	972.1	970.4	953.0
63°	1155.9	1121.0	1086.8	1047.8	1024.5	977.9	968.8	959.6
65°	1154.2	1124.3	1098.5	1047.8	1012.8	994.6	949.6	970.4
67.5°	1122.7	1097.6	1067.7	1032.8	974.6	960.5	928.9	933.1
70°	1071.9	1039.5	1011.2	978.7	932.2	899.7	880.7	864.8
72.5°	992.9	963.8	933.8	903.9	862.4	823.3	810.0	792.5
75°	888.2	859.8	832.4	804.1	765.1	730.1	716.0	703.5
77.5°	768.4	744.2	705.2	678.6	656.1	618.7	605.3	592.1
80°	612.8	601.3	572.9	538.1	526.4	489.8	479.8	462.4
82.5°	445.7	434.0	411.6	387.5	373.4	354.3	337.6	325.9
85°	271.9	259.4	247.8	226.2	217.9	203.7	190.4	183.8
87.5°	98.2	88.1	79.0	69.0	64.0	54.0	52.4	47.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)