

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: P299697

Luminaire Tested: **GLNA-AF-01-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-5MQ-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' 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

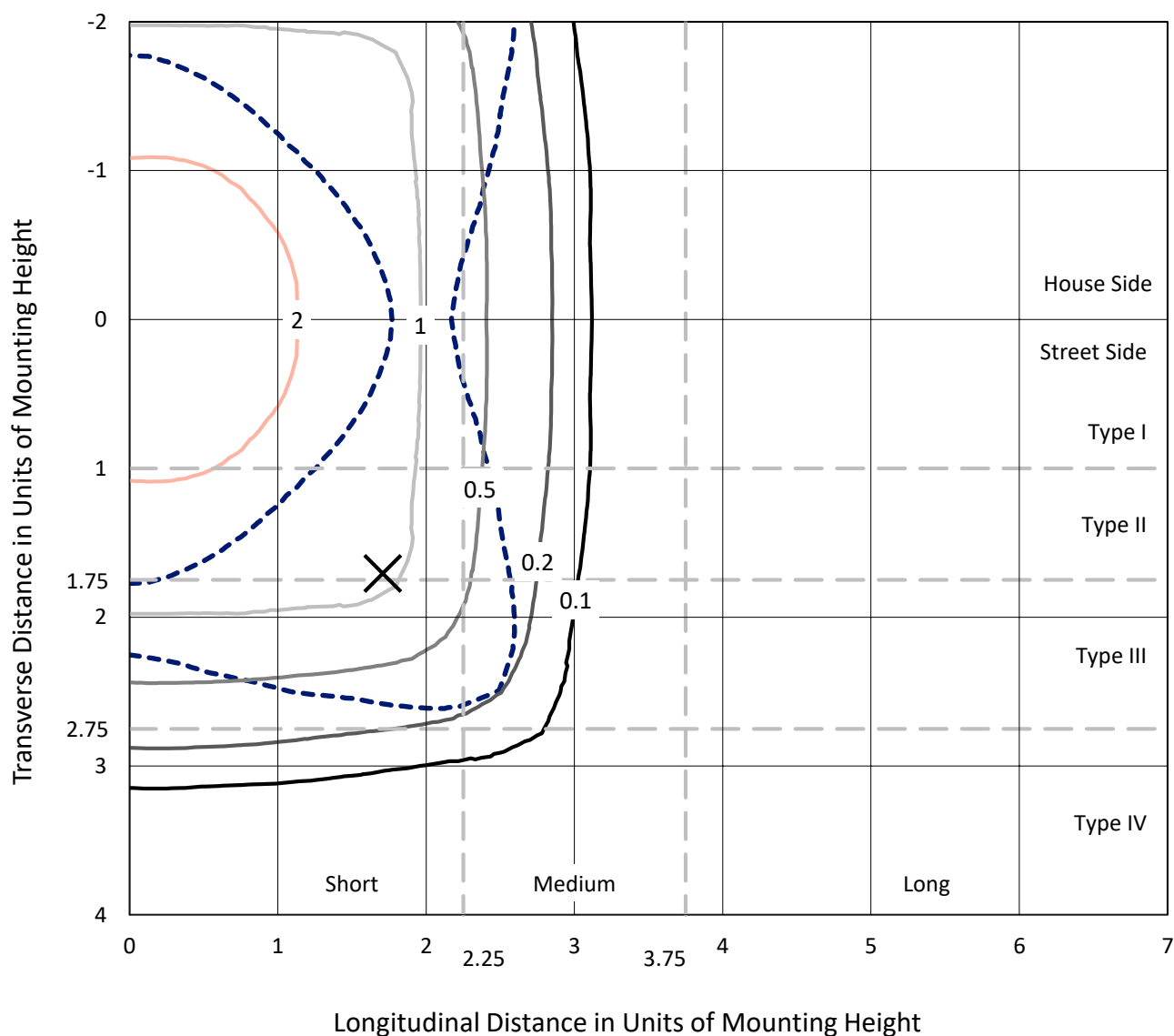


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

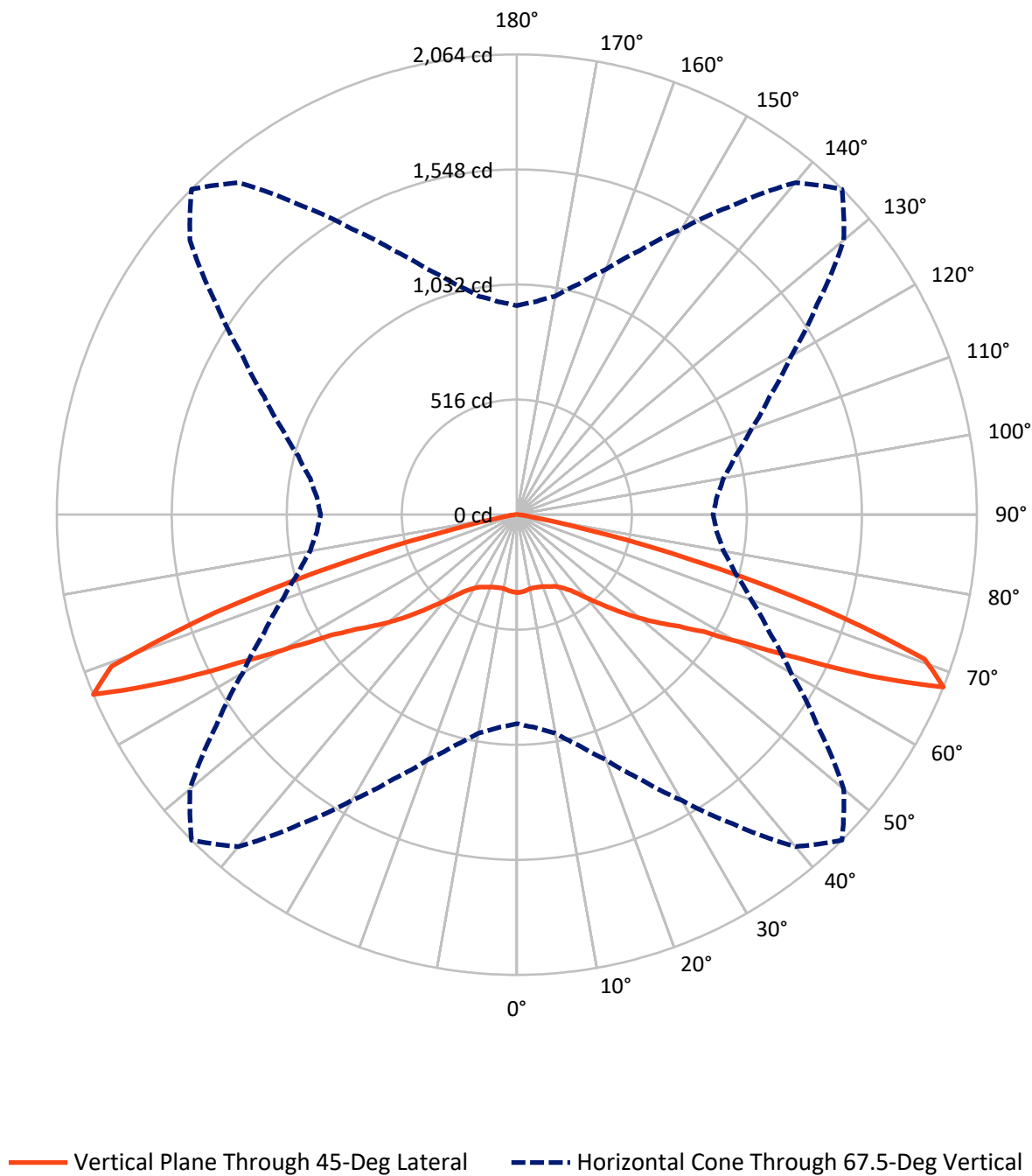


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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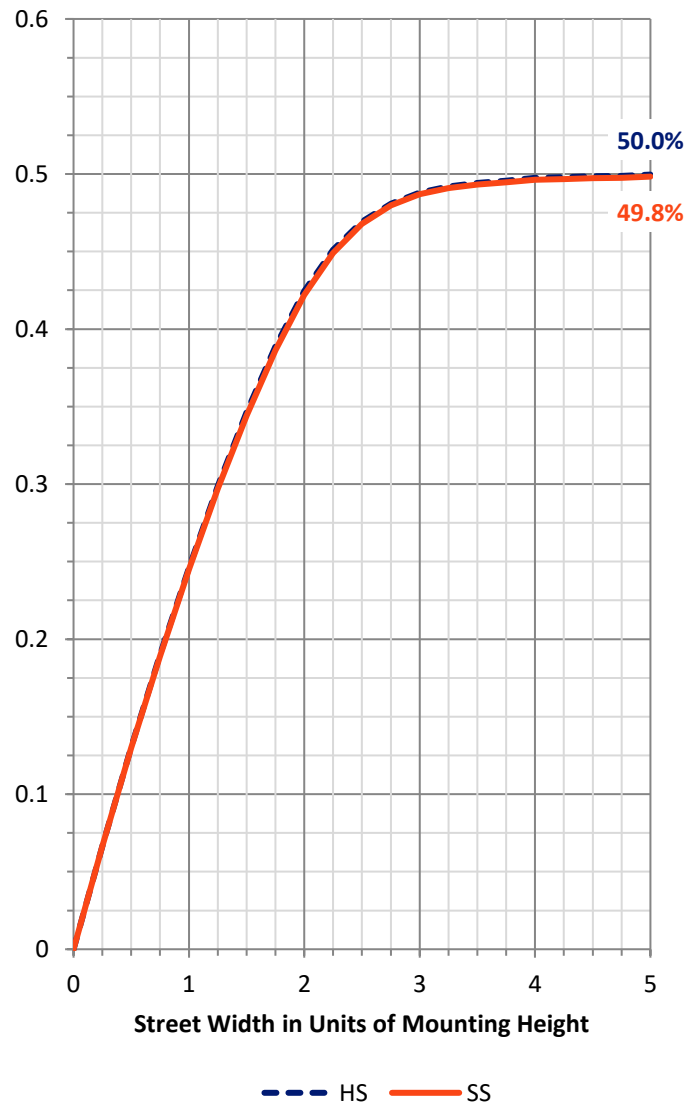
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.9	0.0	1753.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1753.9	0.0	1753.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3507.7	0.0	3507.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	0.9
10°-20°	94.9	2.7
20°-30°	161.4	4.6
30°-40°	263.8	7.5
40°-50°	471.0	13.4
50°-60°	794.1	22.6
60°-70°	1232.3	35.1
70°-80°	433.0	12.3
80°-90°	24.5	0.7
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°	3507.7	100.0
0°-180°	3507.7	100.0

Coefficient of Utilization



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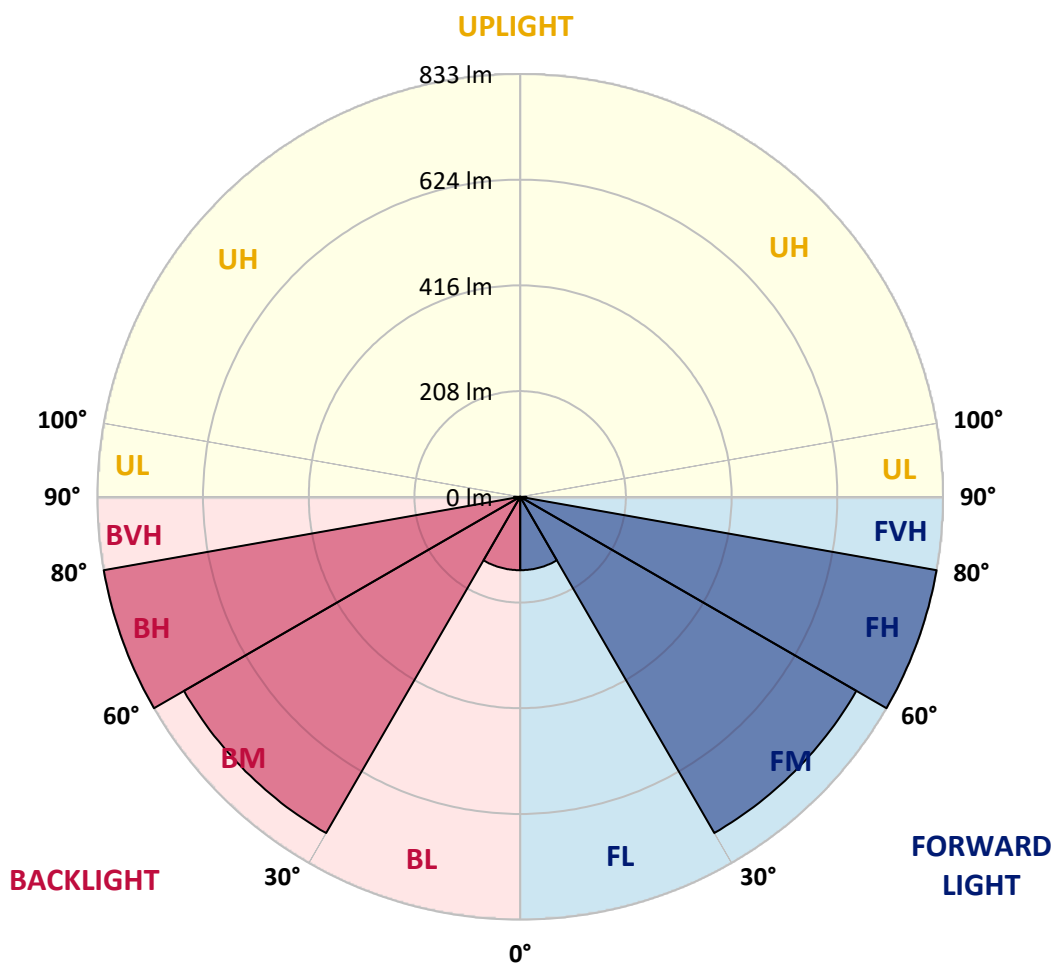
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.5	4.1			
FM	(30°-60°)	764.5	21.8			
FH	(60°-80°)	832.6	23.7			G1/1800
FVH	(80°-90°)	12.2	0.3			G1/100
BL	(0°-30°)	144.5	4.1	B1/500		
BM	(30°-60°)	764.5	21.8	B1/1000		
BH	(60°-80°)	832.6	23.7	B2/1000		G1/1800
BVH	(80°-90°)	12.2	0.3			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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6
2.5°	348.3	348.6	348.6	348.6	348.4	348.4	348.1	348.4	348.3	347.8	347.9
5°	345.4	345.7	345.7	345.5	346.0	345.8	345.4	345.7	345.5	345.2	345.4
7.5°	341.2	341.7	341.7	341.5	342.0	341.8	341.5	341.7	341.7	341.2	341.2
10°	336.5	336.8	336.8	336.7	337.5	337.5	337.3	337.8	337.9	337.5	337.1
12.5°	332.1	332.6	332.6	333.3	334.1	334.4	335.2	335.8	336.5	336.3	335.7
15°	329.6	329.9	330.5	331.3	332.6	333.7	335.0	336.5	337.8	338.1	337.1
17.5°	327.9	328.4	329.4	330.5	332.3	334.2	336.2	338.1	339.9	340.5	339.4
20°	327.5	327.8	328.7	330.7	333.1	336.0	338.8	341.0	343.4	344.2	343.4
22.5°	328.4	329.1	330.2	332.5	335.7	339.4	342.6	345.7	348.8	350.2	349.1
25°	332.8	333.4	334.9	337.8	341.3	345.2	348.9	352.5	355.2	356.7	355.8
27.5°	340.8	341.7	343.4	346.3	350.2	354.4	358.4	361.3	363.6	364.1	363.1
30°	352.9	354.7	356.8	360.0	364.6	368.1	372.1	374.7	377.5	377.5	376.7
32.5°	371.8	373.6	375.9	378.9	382.5	386.3	389.9	392.1	395.0	395.2	393.3
35°	400.0	400.9	402.8	404.7	408.0	411.3	414.4	415.9	418.3	418.4	416.7
37.5°	437.3	437.5	438.8	439.4	442.3	446.0	448.9	449.9	452.2	451.8	450.1
40°	480.7	481.5	482.0	483.0	486.0	489.6	492.6	493.1	495.5	495.1	492.8
42.5°	530.9	531.2	533.9	535.4	538.3	540.1	543.9	544.4	547.3	546.0	543.5
45°	587.2	590.1	592.7	595.6	598.6	600.7	603.8	603.1	605.1	603.1	601.7
47.5°	646.4	648.5	654.3	658.8	663.8	665.6	669.9	668.0	669.9	667.2	666.7
50°	711.5	715.2	720.2	725.4	730.7	733.6	739.3	736.9	739.4	736.9	735.4
52.5°	775.7	776.7	787.7	795.3	802.7	806.1	809.5	808.3	808.5	808.3	806.9
55°	836.7	839.0	849.9	860.3	873.2	882.7	888.5	887.8	886.4	884.9	882.5
57.5°	905.4	907.7	920.3	933.0	947.7	961.2	973.0	985.1	989.8	991.1	985.8
60°	998.3	998.2	1015.0	1030.4	1051.4	1071.6	1097.4	1123.7	1153.8	1167.9	1149.3
62.5°	1092.9	1096.7	1120.9	1148.4	1191.6	1233.7	1281.3	1328.1	1375.8	1414.7	1373.4
65°	1081.6	1096.4	1132.4	1194.5	1274.3	1369.2	1471.8	1580.4	1678.4	1745.9	1670.2
67.5°	937.4	958.5	995.1	1070.6	1170.5	1307.3	1479.5	1694.2	1943.8	2064.4	1914.9
70°	679.4	703.3	741.7	815.4	914.3	1044.3	1231.4	1489.2	1819.6	1941.2	1776.5
72.5°	338.1	351.0	374.7	421.7	496.5	602.0	771.7	1019.5	1311.8	1423.4	1272.9
75°	114.9	120.8	124.9	140.2	163.9	205.3	289.7	445.7	679.9	815.1	670.2
77.5°	66.3	66.5	69.2	71.9	76.0	80.5	91.8	120.5	208.4	296.0	215.7
80°	42.9	42.7	45.0	47.1	49.8	52.1	52.7	55.8	64.4	76.3	68.2
82.5°	22.3	25.0	30.0	32.7	37.9	38.9	37.6	36.5	38.6	40.0	41.0
85°	12.3	10.6	16.0	20.6	22.9	23.2	23.2	21.9	22.7	22.3	24.2
87.5°	5.6	5.2	6.3	10.2	10.8	9.2	9.7	8.5	6.1	6.0	6.8
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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	349.6
2.5°	347.9	348.1	348.1	348.6	348.8	349.1	349.4	349.6
5°	345.2	345.7	345.4	345.8	345.8	346.2	346.2	346.3
7.5°	341.2	341.7	341.7	341.7	341.5	342.0	342.0	342.0
10°	337.0	337.3	337.1	336.8	336.5	337.0	336.8	336.7
12.5°	335.7	334.9	334.2	333.9	333.3	333.4	332.9	332.9
15°	336.5	335.0	333.9	333.4	332.8	332.5	332.1	332.3
17.5°	338.6	336.8	335.4	334.6	333.7	333.3	332.6	332.8
20°	342.3	340.2	338.1	336.5	335.0	334.2	333.7	333.6
22.5°	347.8	344.7	341.7	339.2	337.3	336.2	335.7	335.4
25°	354.1	350.7	347.1	344.4	342.5	341.0	340.0	340.0
27.5°	362.0	359.2	356.0	352.8	351.0	349.6	348.9	348.6
30°	375.2	372.6	370.0	367.0	364.7	363.3	362.1	361.2
32.5°	392.1	390.0	388.0	385.7	383.6	381.7	379.9	379.1
35°	416.0	414.4	413.0	410.4	409.6	408.4	407.5	406.7
37.5°	448.9	448.3	448.3	445.5	444.9	444.4	443.4	443.6
40°	492.2	492.8	492.0	491.0	490.5	489.3	489.3	490.4
42.5°	543.3	543.8	545.5	543.9	545.7	544.1	543.1	543.9
45°	602.7	604.4	608.0	606.4	607.5	604.8	601.4	601.5
47.5°	669.3	670.9	672.3	671.2	671.4	666.9	662.3	661.2
50°	738.5	739.1	739.9	738.3	738.6	733.6	728.5	728.6
52.5°	806.9	809.9	813.2	808.8	807.8	802.2	794.9	792.0
55°	885.1	889.5	885.8	878.2	870.6	863.0	853.5	851.9
57.5°	981.6	974.1	962.5	948.2	937.7	927.0	917.4	913.3
60°	1115.8	1087.9	1066.9	1045.6	1032.2	1019.2	1006.4	1004.5
62.5°	1305.5	1257.2	1215.5	1171.4	1135.5	1107.4	1085.0	1078.7
65°	1543.3	1429.2	1330.3	1238.1	1157.9	1097.4	1059.3	1042.5
67.5°	1645.5	1420.3	1250.8	1119.8	1015.0	941.7	900.6	880.1
70°	1446.0	1177.9	993.5	862.4	766.9	688.8	651.5	629.6
72.5°	994.8	749.3	592.5	483.6	407.3	342.0	316.2	314.2
75°	446.7	295.8	203.9	157.1	132.3	115.0	109.7	105.7
77.5°	125.0	92.4	82.4	77.1	71.9	66.0	63.7	64.2
80°	60.8	57.4	55.2	51.8	47.1	42.1	39.8	40.8
82.5°	40.3	39.8	41.3	38.9	32.1	27.3	22.9	21.0
85°	24.5	24.8	25.3	25.5	21.6	15.2	10.3	11.6
87.5°	9.7	11.1	12.1	12.6	11.8	7.3	5.8	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)